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FLOUR MILLS

1964

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PUBLICATIONS

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FLOUR MILLS

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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.

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.

SYMBOLS

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

.. figures not available.

... figures not appropriate or not applicable.

- nil or zero.

-- amount too small to be expressed.

p preliminary figures.

r revised figures.

x confidential to meet secrecy requirements of the Statistics Act.

TABLE 1. Principal Statistics, 1961-64

Year and province	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
No.		'000			\$'000				\$'000			\$'000	
1961													
Totals	54	2,665	5,906	10,685	1,686	173,662	220,587	45,295	17	76	4,223	17,649	47,052
1962													
Totals	55	2,575	5,380	10,353	1,672	188,453	234,255	43,967	16	70	4,265	18,328	46,548
1963													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick .....	...	...	...	...	...	...	...	...	...	...	32	93	...
Quebec	5	457	1,010	1,969	249	49,565	59,292	9,915	-	-	1,223	5,869	10,278
Ontario	29	862	1,947	3,824	602	66,783	79,869	12,562	x	x	1,177	5,380	13,150
Manitoba	4	281	561	1,111	183	14,785	17,631	2,628	-	-	481	1,886	2,821
Saskatchewan	5	x	x	x	x	x	x	x	x	x	x	x	x
Alberta	7	437	882	1,731	252	25,245	31,566	6,192	-	-	711	2,879	6,796
British Columbia	3	x	x	x	x	x	x	x	x	x	x	x	x
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	53	2,517	5,402	10,614	1,675	192,555	235,603	42,079	13	43	4,392	19,375	44,245
1964													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick .....	...	...	...	...	...	...	...	...	...	...	41	106	...
Quebec	7	482	1,143	2,379	276	54,166	70,152	15,633	x	x	1,247	6,549	18,186
Ontario	28	870	1,946	4,084	610	76,821	91,802	14,217	x	x	1,172	5,710	14,888
Manitoba	4	x	x	x	x	x	x	x	-	-	x	x	x
Saskatchewan	5	467	990	2,108	398	38,862	50,405	11,196	-	-	694	3,225	11,694
Alberta	7	462	949	1,933	298	39,167	48,302	8,950	-	-	746	3,125	9,276
British Columbia	4	x	x	x	x	x	x	x	x	x	x	x	x
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	55	2,617	5,768	11,994	1,865	238,272	295,056	54,745	14	61	4,503	21,439	59,262

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

Size group	Estab-lish-ments	Manufacturing activity						Total activity					
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
No.		'000			'000				'000		'000		
1963													
Under \$10,000	5	2	5	7	—	33	56	27	3	7	2	7	27
\$ 10,000 to \$ 24,999	3	5	12	20	5	126	174	44	5	13	6	23	75
25,000 " 49,999	5	54	115	201	60	387	827	378	x	x	66	260	441
50,000 " 99,999	6	42	85	136	42	2,285	1,588	248	x	x	48	163	300
100,000 " 199,999	4	40	98	137	28	2,268	2,874	564	x	x	51	198	565
200,000 " 499,999	14	518	1,108	2,005	285	30,735	36,462	5,538	—	—	817	3,385	6,855
500,000 " 999,999	16	1,856	3,980	8,108	1,255	157,721	193,622	35,280	—	—	2,787	12,594	36,521
1,000,000 " 4,999,999	...	...	...	...	...	...	...	...	...	...	615	2,745	(339)
5,000,000 and over	...	...	...	...	...	...	...	...	...	...	615	2,745	(339)
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	615	2,745	(339)
Totals	53	2,517	5,402	10,614	1,675	192,555	235,603	42,079	13	43	4,392	19,375	44,245
1964													
Under \$10,000	3	1	2	3	1	6	13	10	1	1	2	8	16
\$ 10,000 to \$ 24,999	4	6	13	21	5	114	161	42	4	19	7	25	76
25,000 " 49,999	4	26	61	117	39	311	530	181	3	5	31	136	237
50,000 " 99,999	8	57	131	239	58	1,614	2,127	472	3	22	62	284	596
100,000 " 199,999	5	62	141	196	57	3,443	3,964	458	3	15	76	276	458
200,000 " 499,999	12	313	693	1,276	231	27,241	31,797	4,296	—	—	473	2,143	4,930
500,000 " 999,999	19	2,152	4,727	10,141	1,475	205,544	256,465	49,291	—	—	3,247	15,515	53,323
1,000,000 " 4,999,999	...	...	...	...	...	...	...	...	...	...	605	3,053	(374)
5,000,000 and over	...	...	...	...	...	...	...	...	...	...	605	3,053	(374)
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	605	3,053	(374)
Totals	55	2,617	5,768	11,994	1,865	238,272	295,056	54,745	14	61	4,503	21,439	59,262

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

Size group	Estab-lish-ments	Manufacturing activity						Total activity					
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
No.		'000			'000				'000		'000		
1963													
Under \$10,000	7	17	33	46	12	348	389	29	4	10	18	49	28
\$ 10,000 to \$ 24,999	4	11	22	37	13	396	478	79	4	10	14	45	109
25,000 " 49,999	3	19	43	74	29	466	627	117	x	x	25	99	209
50,000 " 99,999	3	17	34	58	14	593	808	199	x	x	20	74	224
100,000 " 199,999	7	96	224	351	80	3,619	4,737	1,019	x	x	117	485	1,017
200,000 " 499,999	9	241	532	958	170	18,151	21,196	2,805	—	—	377	1,663	3,395
500,000 " 999,999	9	637	1,312	2,537	303	43,776	50,310	6,480	—	—	919	3,822	7,100
1,000,000 " 4,999,999	11	1,479	3,201	6,552	1,054	125,205	157,059	31,352	—	—	2,287	10,392	32,502
5,000,000 and over	...	...	...	...	...	...	...	...	...	...	615	2,745	(339)
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	615	2,745	(339)
Totals	53	2,517	5,402	10,614	1,675	192,555	235,603	42,079	13	43	4,392	19,375	44,245
1964													
Under \$10,000	6	2	5	8	5	41	77	31	4	12	3	13	41
\$ 10,000 to \$ 24,999	7	13	26	42	15	496	572	76	4	12	17	59	117
25,000 " 49,999	4	55	118	180	71	1,958	2,334	307	3	22	61	215	457
50,000 " 99,999	3	27	66	95	21	1,786	2,039	234	—	—	38	170	260
100,000 " 199,999	6	77	188	339	68	4,505	5,359	825	3	15	97	462	818
200,000 " 499,999	8	171	381	727	150	16,827	19,779	2,668	—	—	270	1,319	3,306
500,000 " 999,999	3	173	370	701	101	11,522	13,535	1,953	—	—	288	1,157	2,173
1,000,000 " 4,999,999	18	2,099	4,614	9,902	1,434	201,137	251,360	48,652	—	—	3,124	14,991	52,465
5,000,000 and over	...	...	...	...	...	...	...	...	...	...	605	3,053	(374)
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	605	3,053	(374)
Totals	55	2,617	5,768	11,994	1,865	238,272	295,056	54,745	14	61	4,503	21,439	59,262

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

Size group	Estab- lish- ments	Manufacturing activity						Total activity					
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000			'000				'000		'000		
1963													
Under \$10,000	7	17	33	46	12	348	389	28	4	10	18	49	28
\$ 10,000 to \$ 24,999	4	11	22	37	13	396	478	79	4	10	14	45	109
25,000 " 49,999	6	36	77	132	43	1,058	1,435	316	x	x	45	173	433
50,000 " 99,999	7	96	224	351	80	3,619	4,737	1,019	x	x	117	485	1,017
100,000 " 199,999	7	188	405	753	115	13,497	15,738	2,085	-	-	288	1,231	2,253
200,000 " 499,999	10	635	1,330	2,529	328	45,670	52,512	6,681	-	-	888	3,779	7,214
500,000 " 999,999	10	635	1,330	2,529	328	45,670	52,512	6,681	-	-	888	3,779	7,214
1,000,000 " 4,999,999	12	1,534	3,311	6,764	1,083	127,966	160,315	31,872	-	-	2,407	10,867	33,530
5,000,000 and over	12	1,534	3,311	6,764	1,083	127,966	160,315	31,872	-	-	2,407	10,867	33,530
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	615	2,745	(339)
Totals	53	2,517	5,402	10,614	1,675	192,555	235,603	42,079	13	43	4,392	19,375	44,245
1964													
Under \$10,000	5	2	5	7	4	37	70	28	4	12	2	7	28
\$ 10,000 to \$ 24,999	4	8	17	26	14	422	483	61	3	5	12	45	78
25,000 " 49,999	3	31	67	89	42	1,246	1,431	145	1	4	33	105	147
50,000 " 99,999	8	56	126	202	51	2,575	3,038	413	3	26	72	300	621
100,000 " 199,999	6	77	188	339	68	4,505	5,359	825	3	15	97	462	818
200,000 " 499,999	5	114	245	480	71	9,648	11,355	1,635	-	-	175	803	1,633
500,000 " 999,999	6	230	506	948	180	18,700	21,960	2,986	-	-	383	1,674	3,846
1,000,000 " 4,999,999	6	230	506	948	180	18,700	21,960	2,986	-	-	383	1,674	3,846
5,000,000 and over	18	2,099	4,614	9,902	1,434	201,137	251,360	48,652	-	-	3,124	14,991	52,465
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	605	3,053	(374)
Totals	55	2,617	5,768	11,994	1,865	238,272	295,056	54,745	14	61	4,503	21,439	59,262

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

Size group	Estab- lish- ments	Manufacturing activity						Total activity					
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000			'000				'000		'000		
1963													
Under 5 employed	9	9	18	30	13	389	484	94	7	14	11	35	98
5 - 14 employed	10	69	155	242	71	2,870	3,761	789	6	29	84	311	932
15 - 49 "	14	241	565	915	203	23,852	27,862	3,757	-	-	366	1,705	4,251
50 - 99 "	5	259	548	1,099	192	21,446	26,567	4,916	-	-	392	1,719	4,977
100-199 "	9	863	1,827	3,627	552	67,007	79,559	12,512	-	-	1,206	5,148	13,260
200-499 "	6	1,076	2,289	4,702	644	76,991	97,370	20,012	-	-	1,716	7,712	21,065
500 employed and over	6	1,076	2,289	4,702	644	76,991	97,370	20,012	-	-	1,716	7,712	21,065
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	615	2,745	(339)
Totals	53	2,517	5,402	10,614	1,675	192,555	235,603	42,079	13	43	4,392	19,375	44,245
1964													
Under 5 employed	8	8	17	29	16	360	473	98	4	12	11	39	128
5 - 14 employed	12	75	170	268	80	3,666	4,379	658	10	49	91	370	853
15 - 49 "	15	258	597	1,129	235	29,985	35,329	4,879	-	-	367	1,908	5,483
50 - 99 "	5	261	553	1,189	213	25,543	32,473	6,772	-	-	390	1,809	6,823
100-199 "	9	922	2,043	4,153	641	90,004	107,373	16,967	-	-	1,304	5,925	17,570
200-499 "	6	1,093	2,387	5,226	680	88,714	115,030	25,373	-	-	1,735	8,338	28,779
500 employed and over	6	1,093	2,387	5,226	680	88,714	115,030	25,373	-	-	1,735	8,338	28,779
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	605	3,053	(374)
Totals	55	2,617	5,768	11,994	1,865	238,272	295,056	54,745	14	61	4,503	21,439	59,262

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

Type of organization	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 man-ufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000			\$'000			\$'000	
1963													
Individual ownerships	7	11	24	40	6	334	455	123	6	18	12	43	158
Partnerships	3	17	37	66	18	705	971	252	7	25	18	71	294
Incorporated companies	42	2,489	5,341	10,507	1,651	191,516	234,177	41,705	...	...	3,747	16,516	44,132
Co-operatives	1												
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	615	2,745	(339)
Totals	53	2,517	5,402	10,614	1,675	192,555	235,603	42,079	13	43	4,392	19,375	44,245
1964													
Individual ownerships	7	14	28	48	11	382	468	75	6	32	15	51	145
Partnerships	4	23	50	92	24	1,130	1,377	229	8	29	26	105	278
Incorporated companies	43	2,580	5,690	11,853	1,829	236,760	293,210	54,441	...	...	3,857	18,230	59,213
Co-operatives	1												
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	605	3,053	(374)
Totals	55	2,617	5,768	11,994	1,865	238,272	295,056	54,745	14	61	4,503	21,439	59,262

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

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1963	1964	1963	1964	1963	1964
	\$'000					
Output						
1. Shipments and other revenue	235,603	295,056	18,015	40,781	253,618	335,837
Inventories— Goods of own manufacture:						
Add closing— Goods in process .....	—	—	...	...	—	—
Finished goods	4,028	3,897	...	...	4,028	3,897
Deduct opening— Goods in process .....	—	—	...	...	—	—
Finished goods	3,322	4,071	...	...	3,322	4,071
2. Net inventory change	706	(174)	...	...	706	(174)
3. Gross output (1 + 2)	236,309	294,882	18,015	40,781	254,324	335,663
Input						
4. Purchases of goods not of own manufacture .....	...	...	15,578	35,282	15,578	35,282
Inventories— Goods not of own manufacture:						
Add opening .....	...	...	395	821	395	821
Deduct closing .....	...	...	760	570	760	570
5. Cost of goods sold (not of own manufacture) .....	...	...	15,213	35,533	15,213	35,533
6. Materials, supplies, etc.	192,555	238,272	636	732	193,191	239,004
7. Fuel and electricity	1,675	1,865	...	...	1,675	1,865
8. Gross input (5 + 6 + 7)	194,230	240,137	15,849	36,265	210,079	276,402
Value added (3 - 8)	42,079	54,745	2,166	4,517	44,245	59,262

TABLE 8. Employment and Payroll, 1963 and 1964

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office	Sales and distribution		Total		Production and related workers	Adminis- trative and office	Sales and distrib- ution	Total		
	Manufacturing		Other			Male	Female	Male	Female					Manufacturing	Other
	Male	Female	Male	Female	Male					Female	Male	Female			
1963	number										\$'000				
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick .....	...	...	...	...	...	...	28	4	28	4	...	...	...	93	93
Quebec	455	2	-	-	307	182	274	3	1,036	187	1,969	-	2,656	1,245	5,870
Ontario	835	27	-	-	157	55	87	16	1,079	98	3,824	-	1,125	432	5,381
Manitoba	256	25	-	-	74	40	74	12	404	77	1,111	-	480	295	1,886
Saskatchewan	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
Alberta	412	25	2	-	76	46	126	24	616	95	1,731	5	505	838	2,879
British Columbia	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	2,394	123	2	-	737	375	680	81	3,813	579	10,614	3	5,519	3,237	19,375
1964	number										\$'000				
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick .....	...	...	...	...	...	...	36	5	36	5	...	...	...	106	106
Quebec	480	2	-	-	322	168	272	3	1,074	173	2,379	-	2,818	1,352	6,549
Ontario	842	28	9	-	146	49	85	13	1,082	90	4,084	41	1,087	497	5,710
Manitoba	x	x	x	-	x	x	x	x	x	x	x	x	x	x	x
Saskatchewan	427	40	-	-	110	50	58	9	595	99	2,108	-	729	387	3,225
Alberta	434	28	12	-	73	46	128	25	647	99	1,933	26	509	656	3,125
British Columbia	x	x	x	-	x	x	x	x	x	x	x	x	x	x	x
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	2,497	120	23	-	724	360	705	74	3,949	554	11,994	76	5,725	3,645	21,439

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

Month	1963		1964	
	Male	Female	Male	Female
number				
Establishments reporting monthly detail (large establishments only):				
January	2,307	128	2,557	124
February	2,294	126	2,583	127
March	2,273	123	2,596	124
April	2,288	109	2,486	107
May	2,334	110	2,498	108
June	2,363	121	2,616	109
July	2,331	123	2,606	120
August	2,353	114	2,485	119
September	2,543	135	2,398	130
October	2,572	141	2,448	139
November	2,546	127	2,327	124
December	2,534	110	2,343	114
Averages	2,394	123	2,497	120
Establishments reporting annual averages (small establishments only) .....	...	...	...	...
Average for all establishments	2,394	123	2,497	120

TABLE 10. Inventories¹, 1964

Province	Manufacturing				Non-manufacturing	Total inventories
	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-
New Brunswick .....	...	...	...	...	...	...
Quebec	11,179	-	6,732	17,911	3	17,914
Ontario	13,788	-	1,620	15,408	127	15,534
Manitoba	x	-	x	x	x	x
Saskatchewan	7,249	-	714	7,953	19	7,982
Alberta	4,341	-	1,212	5,553	611	6,165
British Columbia	x	-	x	x	x	x
Yukon and Northwest Territories	-	-	-	-	-	-
Totals	37,850	-	10,830	48,679	821	49,500
Closing:						
Newfoundland	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-
New Brunswick .....	...	...	...	...	...	...
Quebec	8,887	-	6,121	15,008	1	15,009
Ontario	8,447	-	1,452	9,899	268	10,167
Manitoba	x	-	x	x	x	x
Saskatchewan	5,530	-	743	6,273	22	6,295
Alberta	4,477	-	1,306	5,783	194	5,977
British Columbia	x	-	x	x	x	x
Yukon and Northwest Territories	-	-	-	-	-	-
Totals	28,636	-	10,024	38,659	570	39,230

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

Description	1963		1964	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	-	-	-
(b) Imported	"	4,856	60	4,662
Sub-bituminous coal (from Alberta mines only)	"	-	-	59
Anthracite coal	"	65	2	60
Lignite coal	"	6,073	33	5,529
Coke	"	-	-	30
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	295,778	105	306,687
Fuel oil including kerosene or coal oil	"	1,954,151	155	1,880,126
Wood	cord	-	-	-
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	-	-	-
(b) Other manufactured gas	M cu. ft.	-	-	-
(c) Natural gas	"	171,975	60	276,252
Other fuel .....	...	-	-	91
Electricity purchased	kwh.	125,744,076	1,136	153,620,768
Steam purchased .....	...	-	57	-
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	...	-	68	-
3. All establishments:				
Total fuel and electricity used .....	...	...	1,675	...
				1,865

¹The difference between figures in Table 10 and those in Table 7 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 7. See also "Concepts and Definitions" for explanation of other variances.

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

Description	1963		1964	
	Quantity	Cost	Quantity	Cost
	tons	\$'000	tons	\$'000
1. Materials used:				
Grains:				
Wheat	2,541,109	163,998	3,232,789	207,438
Oats	72,408	3,494	76,594	3,561
Corn	19,021	991	11,229	592
Barley	7,635	431	13,245	725
Buckwheat	-	-	-	-
Rye	9,737	542	9,186	436
Screenings	956	42	1,185	52
Grain, n.e.s.	90	11	19	3
Grain by-products:				
Wheat flour	3,570	376	2,432	234
Other flour				
Bran, shorts and middlings	9,559	462	10,542	520
Gluten feed and meal	854	76	571	51
Brewer's and distillers' grains	891	73	945	81
Grain by-products, n.e.s.	2,380	135	2,007	106
Mixed concentrates and premixes	1,534	182	734	119
Oil seed products, meal, etc.	11,154	1,147	8,741	904
Legumes and grasses	1,975	109	1,581	84
Fish by-products, meals, etc.	1,210	190	1,422	228
Meat and tankage by-products	2,032	213	3,046	327
Other materials:				
Buttermilk powder	325	38	301	35
Skim milk powder	137	33	172	50
Molases	1,445	51	1,352	46
Limestone	1,629	20	8,863	70
Salt	1,110	33	1,250	38
Sugar	5,510	1,292	5,291	1,114
Egg powder	7	20	15	45
Shortening	1,219	449	1,202	450
Mineral mixtures	67	23	134	17
Antibiotics (coccidiostats and other drugs) .....	...	25	...	15
Phosphates	1,233	112	1,118	104
Vitamins	1,153	700	983	946
Urea	160	17	193	21
Yeast	5	2	4	1
Oils, animal and fish	859	104	234	33
All other materials and components used ¹ .....	...	2,412	...	3,574
2. Containers and other packaging materials and supplies used .....	...	12,850	...	14,183
3. Operating, maintenance and repair supplies used (excluding fuel) .....	...	1,541	...	1,705
4. Amount paid out to others for work done on materials owned by establishments .....	...	363	...	362
Totals .....	...	192,555	...	238,272

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$1,802,185 in 1963 and \$1,973,470 in 1964.

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

Description	1963		1964	
	Quantity	Value	Quantity	Value
		\$'000		\$'000
1. Products:				
Wheat flour:				
Spring No. 1 or Top Patent including semolina	1	1	1	1
Spring No. 2 Patent	1	1	1	1
Spring No. 3 Patent (Strong Bakers or Export Patent)	1	1	1	1
Whole wheat and Graham flour	1	1	1	1
Ontario winter wheat flour	cwt.	2,659,505	13,182	2,836,317
Durum semolina and flour	"	639,745	3,522	1,144,606
Lower grades of flour	"	1,965,606	8,703	2,164,716
All other	"	32,822,938	159,091	42,567,239
Total flour	"	38,087,894	184,498	48,712,878
Enriched flour, all grades combined	"	24,223,562	119,393	25,501,487
Non-enriched flour, all grades combined	"	13,864,332	65,105	23,211,391
Breakfast foods:				
Prepared breakfast foods	lb.			
Unprepared breakfast foods	"	3,684,771	273	
Oatmeal	tons			12,351
Rolled oats	"	39,275	7,252	30,506
Flour and meal, other:				
Barley flour and meal				
Barley, pot and pearl				
Rye flour and meal				
Corn flour and meal				
Buck wheat flour and meal				
Prepared cake mixes				
Other prepared mixes				
Bran, shorts and middlings	ton.			788,254
Offal	"			
Hominy feed				
Cereals milled, n.e.s.				
Primary premixes and concentrates	ton.	8,378	892	8,749
Secondary or completed feeds	"	66,638	5,815	70,690
Mixed feeds, n.e.s.	"			
Scratch feeds				
Chopped grain, n.e.s.	ton.	2,220	140	6,224
Screenings				
All other products				
				37,921
				8,683
2. Amount received in payment for work done on materials and products owned by others				
				404
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above				(1,593)
Net adjustment for establishments receiving progress payments				
Total adjusted value of shipments and work done				235,603
				70,690
				5,315
				2
				2
				2
				321
				2
				389
				(981)
				295,056

¹ Confidential. Included with wheat flour "All other".
² Confidential. Included with "All other products".

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries, 1963 and 1964
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

Description	1963		1964 ^D	
	Quantity	Value	Quantity	Value
		\$'000		\$'000
Wheat flour:				
Spring No. 1 or Top Patent including semolina	cwt.	8,328,848	43,012	8,494,645
Spring No. 2 or Patent	"	13,268,692	62,691	14,374,298
Spring No. 3 Patent (Strong Bakers or Export Patent)	"	9,444,962	44,979	17,781,885
Whole Wheat and Graham flour	"	576,434	2,731	632,725
Ontario winter wheat flour	"	2,749,073	13,583	2,927,766
Durum semolina and flour	"	639,745	3,522	1,144,606
Lower grades of flour	"	1,965,706	8,703	2,164,716
All other	"	1,373,956	6,524	1,444,792
Total flour	"	38,347,416	185,745	48,965,433
Enriched flour, all grades combined	"	24,313,665	119,863	25,581,766
Non-enriched flour, all grades combined	"	14,033,751	65,882	23,383,667
Flour and meal, other:				
Barley flour and meal	ton.	4,346	249	1,521
Barley, pot and pearl	"	3,127	322	2,140
Rye flour and meal	"	8,820	712	9,155
Corn flour and meal	"	10,908	995	4,899
Buck wheat flour and meal	"	249	27	355
Prepared cake mixes	lb.	66,017,159	11,908	57,518,711
Other prepared mixes (pastry, doughnut, etc.)	"	75,589,804 ^F	12,086 ^F	83,247,163
				146
				185
				792
				546
				44
				12,522
				12,446

List of Establishments classified to This Industry, 1964

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

Name	Location
Quebec:	
Eastern Canada Flour Mills Ltd.	4394 St. Ambroise St., Montréal
McDonald & Robb Limited	70 Chaussée St., Valleyfield
Meunerie Frenlière	St-Eustache
Minoteries Phénix Ltée	310 Victoria Ave., Montréal
Ogilvie Flour Mills Co. Ltd., The	950 Mill St., Montréal
Robin Hood Flour Mills Ltd.	2110 Notre Dame St. West, Montréal
Vanix Inc.	St-Hyacinthe
Ontario:	
Acton Flour Mills	62 Mill St., Acton
Arva Flour Mills Ltd.	Arva
Almonte Flour Mills Limited	11 Main St., Almonte
Ancaster Mountain Mills	548 Mill St., Ancaster
Cherry, S.J. & Sons Limited	166 King St., Preston
Collingwood Milling Co., The	Collingwood
Cullen James & Sons Limited	107 Wilson St., Woodstock
Dutton Flour Mills	Main St., Dutton
Grand River Milling Ltd.	69 Aimsie St., Galt
Great Star Flour Mills Limited	Water St., St. Mary's
Hawken Milling Company	Wallaceburg
Hayhoe Bros.	Pine Grove
Hartop, W.H. & Son	Everton
Howson & Howson Ltd.	Mill St., Blyth
Lake of the Woods Milling Co. Ltd.	Keewatin
McCarthy Milling Co. Limited	Streetsville
Maple Leaf Mills Limited	West Pier, Port Colborne
Maple Leaf Mills Limited	12 Monarch Rd., Toronto
Morris, J.A. & Son Ltd.	Dorchester
Paris Flour Mills	2 Grand River St. N., Paris
Pillsbury of Canada Ltd.	206 King St., Midland
Reid Milling Co. Limited	27 Reid Dr., Streetsville
Robin Hood Flour Mills Limited	Port Colborne
Smith, E.A. Flour Mills Ltd.	R.R. No. 4, Scotland
Springwater Flour Mills	St. Thomas
Strathroy Flour Mills Limited	62 Albert St., Strathroy
Taylor, T.H. Co. Limited, The	14 William St. N., Chatham
Vanstone Flour & Feed Mill	116 King St. W., Bowmanville
Manitoba:	
Kent, B.P. Flour Mills Ltd.	Virden
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.	Fifth Ave. and High St. West, Moose Jaw
Robin Hood Flour Mills Ltd.	First Ave. and 33rd St., Saskatoon
Saskatchewan Wheat Pool	75-33rd St. E., Saskatoon
Wynyard Flour Mill	Wynyard
Alberta:	
Elison Milling & Elevator Co. Ltd.	1301 Second Ave. S., Lethbridge
Maple Leaf Mills Limited	Kipling St., Medicine Hat
Maple Leaf Mills Limited	14th St. & 17th Ave. S.E., Calgary
Ogilvie Flour Mills Co. Limited, The	10527-103rd St., Edmonton
Ogilvie Flour Mills Co. Limited, The	9th Ave. S.E., Medicine Hat
Pillsbury of Canada Ltd.	4002 Bonnybrook Road, Calgary
Robin Hood Flour Mills Ltd.	Ninth Avenue & Fourth St. S.W., Calgary
British Columbia:	
Delta Flour Mills Ltd	1250 No. 5 Rd., Richmond
Master Baker Flour Mills Ltd.	1315 E. Hastings St., Vancouver
Millstream Flour Mills	118 Lady Smith St., Victoria
Roger Wholesome Foods	Armstrong

CONCEPTS AND DEFINITIONS

Census of Manufactures

General

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

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

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

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

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

Establishment

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

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

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

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

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

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

Head Offices and Auxiliary Units

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

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

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

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

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

Employees

(a) Production and related workers - Manufacturing activities

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

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

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

(c) Administrative and office employees

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

(d) Sales and distribution workers

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

(e) Total Employees

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

Working Owners or Partners

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

Salaries and Wages

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

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

Fuel and Electricity

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

Materials and Supplies

(a) Manufacturing activities

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

(b) Non-manufacturing activities

1. Purchases for re-sale as such

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

2. Other materials and supplies used

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

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

Shipments

(a) General

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

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

(b) Shipments of goods of own manufacture

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

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

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

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

(c) Shipments of goods not of own manufacture

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

(d) Other revenue

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

Inventories

(a) Manufacturing activities

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

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

(b) Non-manufacturing activities

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

Value Added

(a) By manufacturing activities

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

(b) By non-manufacturing activities

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

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

(c) By Total activities

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

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