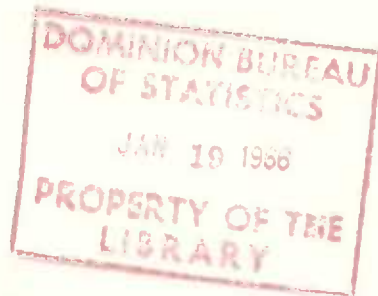


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ANNUAL



FLOUR MILLS

1963

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PUBLICATIONS

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FLOUR MILLS

1963

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.
- Ⓟ preliminary figures.
- Ⓡ revised figures.
- x confidential to meet secrecy requirements of the Statistics Act.

TABLE 1 A. Principal Statistics classified by Province, 1962 and 1963

Year and province	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
No.		'000			\$'000				\$'000		\$'000		
1961													
Totals	54	2,665	5,906	10,685	1,686	173,662	220,587	45,295	17	76	4,223	17,649	47,052
1962													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-
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	x	x	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	x	x	x	x	x	x	x	x	x	x	x	x
Alberta	8	436	855	1,634	248	25,456	31,824	6,032	x	x	646	2,524	6,225
British Columbia	2	x	x	x	x	x	x	x	x	x	x	x	x
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
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

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

Size group	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
No.	'000	\$'000						\$'000	\$'000				
1962													
Under \$10,000	4	2	4	7	2	28	46	15	3	9	2	7	19
\$ 10,000 to \$ 24,999		14	34	52	10	184	284	80	4	19	18	63	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	5	32	52	239	454
100,000 " 199,999		40	98	129	25	2,222	2,623	398			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	...	...	...	...	...	...	...	...	...	543	2,583	(300)	
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...
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													
Under \$10,000	5	2	5	7	-	33	56	27	3	7	2	7	27
\$ 10,000 to \$ 24,999		5	12	20	5	126	174	44	5	13	6	23	75
25,000 " 49,999		54	115	201	60	387	827	378	x	x	66	260	441
50,000 " 99,999		42	85	136	42	1,285	1,588	248	x	x	48	163	300
100,000 " 199,999		40	98	137	28	2,268	2,874	564	x	x	51	198	565
200,000 " 499,999	518	1,108	2,005	285	30,735	36,462	5,538	-	-	817	3,385	6,655	
500,000 " 999,999	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)	
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...
Totals	53	2,517	5,402	10,614	1,675	192,555	235,603	42,079	13	43	4,392	19,375	44,245

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

Size group	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
No.	'000	\$'000						\$'000	\$'000				
1962													
Under \$10,000	5	2	5	8	3	55	82	24	4	12	2	8	28
\$ 10,000 to \$ 24,999		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	603
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	...	...	...	...	...	...	...	...	...	543	2,583	(300)	
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...
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													
Under \$10,000	7	17	33	46	12	348	389	29	4	10	18	49	28
\$ 10,000 to \$ 24,999		11	22	37	13	396	478	79	4	10	14	45	109
25,000 " 49,999		19	43	74	29	466	627	117	x	x	25	99	209
50,000 " 99,999		17	34	58	14	593	808	199	x	x	20	74	224
100,000 " 199,999		96	224	351	80	3,619	4,737	1,019	x	x	117	485	1,017
200,000 " 499,999	241	532	958	170	18,151	21,196	2,805	-	-	377	1,663	3,395	
500,000 " 999,999	637	1,312	2,537	303	43,776	50,310	6,480	-	-	919	3,822	7,100	
1,000,000 " 4,999,999	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	...	...	...	...	...	...	...	...	...	...	...	...
Totals	53	2,517	5,402	10,614	1,675	192,555	235,603	42,079	13	43	4,392	19,375	44,245

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.	'000	\$'000					'000	\$'000		'000			
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 "	5	19	43	70	13	404	550	129	4	21	24	84	178
50,000 "	8	53	119	176	64	2,332	2,897	518	5	32	63	225	553
100,000 "	3	30	76	105	16	1,365	1,697	324	-	-	41	211	332
200,000 "	8	162	363	603	108	11,349	13,669	2,304	-	-	244	1,005	2,390
500,000 "	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	...	...	...	...	...	...	...	...	...	...	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
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 "													
50,000 "	6	36	77	132	43	1,058	1,435	316	x	x	45	173	433
100,000 "	7	96	224	351	80	3,619	4,737	1,019	x	x	117	485	1,017
200,000 "	7	188	405	753	115	13,497	15,738	2,085	-	-	288	1,231	2,253
500,000 "	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													
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

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.	'000	\$'000					'000	\$'000		'000			
1962													
Under 5 employed	9	8	16	26	17	280	402	107	8	21	12	36	130
5 - 14 employed	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 employed and over													
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	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
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	-	-	368	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													
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

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

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 manu-facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000		\$'000				\$'000			\$'000	
1962													
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 .....	...	...	...	...	...	...	...	...	...	...	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
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
Cooperatives	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

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

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1962	1963	1962	1963	1962	1963
\$'000						
Output						
1. Shipments and other revenue	234,255	235,603	23,169	18,015	257,424	253,618
Inventories - Goods of own manufacture:						
Add closing - Goods in process .....	-	-	...	...	-	-
Finished goods	3,430	4,028	...	...	3,430	4,028
Less opening - Goods in process .....	-	-	...	...	-	-
Finished goods	3,594	3,322	...	...	3,594	3,322
2. Net inventory change	(164)	706	...	...	(164)	706
3. Gross output (1 + 2)	234,091	236,309	23,169	18,015	257,260	254,324
Input						
4. Purchases of goods not of own manufacture .....	...	...	19,890	15,578	19,890	15,578
Inventories - Goods not of own manufacture:						
Add opening .....	...	...	356	395	356	395
Less closing .....	...	...	330	760	330	760
5. Cost of goods sold (not of own manufacture) .....	...	...	19,916	15,213	19,916	15,213
6. Materials, supplies, components and semi-processed goods	188,453	192,555	670	636	189,123	193,191
7. Fuel and electricity	1,672	1,675	...	...	1,672	1,675
8. Gross input (5 + 6 + 7)	190,125	194,230	20,586	15,849	210,711	210,079
Census value added (3 - 8)	43,967	42,079	2,581	2,166	46,548	44,245

TABLE 3. Employment and Payroll, 1962 and 1963

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total employees		Production and related workers		Adminis- trative and office	Sales and distri- bution	Total salaries and wages
	Manufacturing		Other		Male	Female	Male	Female	Male	Female	Manufac- turing	Other			
	Male	Female	Male	Female											
	number										\$'000				
1962															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	x	x	x	-	x	x	x	x	x	x	x	x	x	x	x
Alberta	411	25	-	-	69	47	82	12	562	84	1,634	-	494	396	2,524
British Columbia	x	x	x	-	x	x	x	x	x	x	x	x	x	x	x
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	2,450	125	11	-	724	327	559	69	3,744	521	10,353	26	5,413	2,537	18,328
1963															
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	638	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	5	5,519	3,237	19,375

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

Month	Establishments reporting monthly detail			
	1962		1963	
	Male	Female	Male	Female
	number			
January	2,400	133	2,307	128
February	2,426	148	2,294	126
March	2,505	118	2,273	123
April	2,315	106	2,288	109
May	2,492	100	2,334	110
June	2,568	114	2,363	121
July	2,585	115	2,331	123
August	2,432	128	2,353	114
September	2,522	143	2,543	135
October	2,472	144	2,572	141
November	2,362	125	2,546	127
December	2,297	121	2,534	110
Average for establishments reporting monthly detail (collected only for large establishments) ..	2,450	125	2,394	123
Average for small establishments (only annual averages collected) .....	...	...	...	...
Average for all establishments	2,450	125	2,394	123

TABLE 4. Industry Inventories, 1963

Province	Manufacturing				Non-manufacturing	Total inventories
	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total manufacturing	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-
New Brunswick .....	...	...	...	...	...	...
Quebec	10,779	-	5,760	16,539	2	16,541
Ontario	12,578	-	1,216	13,794	144	13,938
Manitoba	988	-	381	1,369	65	1,434
Saskatchewan	x	-	x	x	x	x
Alberta	3,987	-	1,077	5,064	163	5,227
British Columbia	x	-	x	x	x	x
Yukon and Northwest Territories	-	-	-	-	-	-
Totals	35,424	-	10,307	45,731	395	46,126
Closing:						
Newfoundland	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-
New Brunswick .....	...	...	...	...	...	...
Quebec	11,176	-	6,727	17,903	3	17,906
Ontario	15,421	-	1,290	16,711	77	16,788
Manitoba	1,233	-	414	1,647	49	1,696
Saskatchewan	x	-	x	x	x	x
Alberta	4,341	-	1,212	5,553	611	6,164
British Columbia	x	-	x	x	x	x
Yukon and Northwest Territories	-	-	-	-	-	-
Totals	39,419	-	10,390	49,809	760	50,569

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

Description	1962		1963	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments which reported commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	-	-	-
(b) Imported	"	4,868	4,856	60
Sub-bituminous coal (from Alberta mines only)	"	-	-	-
Anthracite coal	"	50	65	2
Lignite coal	"	6,547	6,073	33
Coke	"	-	-	-
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	301,375	295,778	105
Fuel oil including kerosene or coal oil	"	1,952,869	1,954,151	155
Wood	cord	-	-	-
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	-	-	-
(b) Other manufactured gas	M cu.ft.	-	-	-
(c) Natural gas	"	179,199	171,975	60
Other fuel .....	...	-	-	-
Electricity purchased	kwh.	128,510,857	125,744,076	1,136
Steam purchased .....	...	24	...	57
2. Estimate for small establishments:				
Fuel and electricity .....	...	75	...	68
3. All establishments:				
Total fuel and electricity used .....	...	1,672	...	1,675

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

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

Description	1962		1963	
	Quantity tons	Cost \$'000	Quantity tons	Cost \$'000
1. Materials used:				
Grains:				
Wheat	2,588,742	159,817	2,541,109	163,998
Oats	66,583	3,667	72,408	3,494
Corn	19,400	1,006	19,021	991
Barley	7,810	440	7,635	431
Buckwheat	-	-	-	-
Rye	9,410	458	9,737	542
Screenings	1,582	61	956	42
Grain, n.e.s.	215	12	90	11
Grain by-products:				
Wheat flour	334	23	3,570	376
Other flour	-	-		
Bran, shorts and middlings	9,059	440	9,559	462
Gluten feed and meal	973	88	854	76
Brewer's and distillers' grains	859	74	891	73
Grain by-products, n.e.s.	1,702	93	2,380	135
Mixed concentrates and premixes	2,421	296	1,534	182
Oil seed products, meal, etc.	10,637	1,066	11,154	1,147
Legumes and grasses	1,512	89	1,975	109
Fish by-products, meals, etc.	834	121	1,210	190
Meat and tankage by-products	2,103	210	2,032	213
Other materials:				
Buttermilk powder	99	13	325	38
Skim milk powder	457	54	137	33
Molasses	1,518	62	1,445	51
Limestone	1,528	19	1,629	20
Salt	792	26	1,110	33
Sugar	3,809	643	5,510	1,292
Egg powder	5	13	7	20
Shortening	603	250	1,219	449
Mineral mixtures	83	30	67	23
Antibiotics (cocciostats and other drugs) .....	...	91	...	25
Phosphates	763	66	1,233	112
Vitamins	3,915	697	1,153	700
Urea	140	15	160	17
Yeast	5	1	5	2
Oils, animal and fish	825	98	859	104
All other materials and components used ¹ .....	...	3,535 ^r	...	2,412
2. Containers and other packaging materials and supplies used .....	...	13,225	...	12,850
3. Operating, maintenance and repair supplies used (excluding fuel) .....	...	1,645	...	1,541
4. Amount paid out to others for work done on materials owned by establishments .....	...	12	...	363
Totals .....	...	188,453	...	192,555

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$1,869,402 in 1962 and \$1,802,185 in 1963.

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

Description	1962		1963	
	Quantity	Value \$'000	Quantity	Value \$'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.	2,751,020	2,659,505	13,182
Durum semolina and flour	"	798,719	639,745	3,522
Lower grades of flour	"	1,904,926	1,965,706	8,703
All other	"	33,790,702	32,822,938	159,091
Total flour	"	39,245,367	180,633	38,087,894
Enriched flour, all grades combined	"	23,069,871	107,600	24,223,562
Non-enriched flour, all grades combined	"	16,175,496	73,032	13,864,332
Breakfast foods:				
Prepared breakfast foods	lb.	3,799,355	442	3,684,771
Unprepared breakfast foods	"			273
Oatmeal	ton.	34,572	6,933	39,275
Rolled oats	"			7,252
Flour and meal, other:				
Barley flour and meal	ton	548	71	1
Barley, pot and pearl	"			1
Rye flour and meal	"	1	1	1
Corn flour and meal	"			
Buck wheat flour and meal	ton	220	20	
Prepared cake mixes	"			1
Other prepared mixes	"			1
Bran, shorts and middlings	ton	636,141	31,059	1
Offal	"	28,897	699	1
Hominy feed	"			1
Cereals milled, n.e.s.	"			1
Primary premixes and concentrates	ton	7,188	740	8,378
Secondary or completed feeds	"	63,490	5,468	66,638
Mixed feeds, n.e.s.	"	1	1	1
Scratch feeds	"	1	1	1
Chopped grain, n.e.s.	ton	5,069	294	2,220
Screenings	"	1	1	1
All other products .....	...	8,285	...	37,921
2. Amount received in payment for work done on materials and products owned by others	...	70	...	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	...	(461)	...	(1,593)
Net adjustment for establishments receiving progress payments .....	...	...	...	...
Total adjusted value of shipments and work done .....	...	234,255	...	235,603

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

TABLE 8. Shipments of Selected Goods of Own Manufacture - All Industries, 1962 and 1963
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

Description	1962 ^P		1963 ^P	
	Quantity	Value \$'000	Quantity	Value \$'000
Wheat flour:				
Spring No. 1 or Top Patent including semolina	cwt.	7,761,966	8,328,848	43,012
Spring No. 2 Patent	"	14,252,363	13,268,692	62,691
Spring No. 3 Patent (Strong Bakers or Export Patent)	"	8,938,982	9,444,962	44,979
Whole Wheat and Graham flour	"	1,409,095	576,434	2,731
Ontario winter wheat flour	"	2,821,296	2,749,073	13,583
Durum semolina and flour	"	798,719	639,745	3,522
Lower grades of flour	"	1,904,926	1,965,706	8,703
All other	"	1,580,861	1,373,956	6,524
Total flour	"	39,468,208	181,638	38,347,416
Enriched flour, all grades combined	"	23,102,103	107,754	24,313,665
Non-enriched flour, all grades combined	"	16,366,105	73,884	14,033,751
Flour and meal, other:				
Barley flour and meal	ton	1,479	116	4,346
Barley, pot and pearl	"	2,171	253	3,127
Rye flour and meal	"	9,828	721	8,820
Corn flour and meal	"	9,276	797	10,908
Buck wheat flour and meal	"	599	52	249
Prepared cake mixes	lb.	58,065,228 ^r	12,476	66,017,159
Other prepared mixes (pastry, doughnut, etc.)	"	71,151,633	10,948	73,476,318

13427

9,069

List of Establishments classified to This Industry, 1963

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

Name	Location
Quebec:	
Eastern Canada Flour Mills Ltd.....	4394 St. Ambroise St., Montréal
McDonald & Robb Limited	70 Chaussée St., Valleyfield
Minoteries Phenix 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
Ontario:	
Acton Flour Mills.....	62 Mill St., Acton
Almonte Flour Mills Limited	11 Main St., Almonte
Ancaster Mountain Mills	548 Mill St., Ancaster
Caledonia Milling Co. Ltd.	Forfar St. W., Caledonia
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 Ainslie St., Galt
Great Star Flour Mills Limited.....	Water St., St. Mary's
Hawken Milling Company	Wallaceburg
Hayhoe Bros.	Pine Grove
Hogg, George & Sons Ltd.	Thamesford
Hortop, 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:	
Ellison 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:	
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 58 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 178 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

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

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

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

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

Establishment

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

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

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

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

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

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

Head Offices and Auxiliary Units

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

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

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

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

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

Employees

(a) Production and related workers—Manufacturing activity

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

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

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

(c) Administrative and office employees

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

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

(d) Sales and distribution workers

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

(e) Total Employees

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

Working Owners or Partners

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

Salaries and Wages

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

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

Fuel and Electricity

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

Materials and Supplies

(a) Manufacturing activities

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

(b) Non-manufacturing activities

1. Purchases for re-sale as such

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

2. Other materials and supplies used

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

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

Shipments

(a) General

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

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

(b) Shipments of goods of own manufacture

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

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

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

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

(c) Shipments of goods not of own manufacture

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

(d) Other revenue

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

Inventories

(a) Manufacturing activities

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

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

(b) Non-manufacturing activities

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

Value Added

(a) By manufacturing activities

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

(b) By non-manufacturing activities

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

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

(c) By Total activities

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

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