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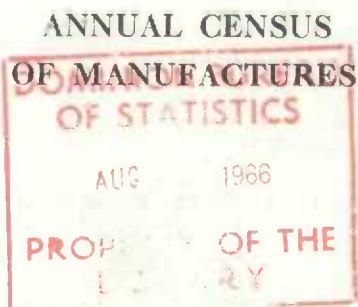
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ANNUAL



AGRICULTURAL IMPLEMENT INDUSTRY

1964



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PUBLICATIONS

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O - Occasional

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AGRICULTURAL IMPLEMENT INDUSTRY

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For statistical purposes the industry titled Agricultural Implement Industry covers the operations of establishments primarily engaged in manufacturing agricultural implements such as plows, threshing machines, binders, fertilizing machinery, milking machines, and mowing machines. The industry also includes establishments primarily engaged in manufacturing tractors. Establishments primarily engaged in manufacturing truck tractors for highway use are classified in Industry No. 323—Motor Vehicle Manufacturers. Establishments primarily engaged in manufacturing industrial tractors for handling materials in industrial plants, depots and docks are classified in Industry No. 315—Miscellaneous Machinery and Equipment Manufacturers. Establishments primarily engaged in manufacturing hand tools, such as hoes, rakes, and shovels are classified in Industry No. 306—Hardware, Tool and Cutlery Manufacturers.

The total number of establishments classified to this industry increased from 82 in 1963 to 94 in 1964, however the real change involved the addition of 21 firms and deletion of 9 others.

Total employment increased by 1,314 persons and total salaries and wages by \$10,068,000. The total number of production employees increased by 946 or 11% and they accounted for 77% of total employment in the industry. During the same period man-hours paid increased by 2,134,000 hours.

The value of materials used in production of goods of own Manufacture increased by \$37,750,000 and represented 55% of the value of shipments of goods of own manufacture. The increase in value of shipments of goods of own manufacture was \$61,196,000, an increase of 33% over 1963.

It should be noted that Table 13 covers the shipments of the firms classified to this industry whereas Table 14 gives the total value of shipments of specific items of Canadian manufacture and includes shipments of those items reported by firms classified to other S.I.C. industries.

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.
- ' revised figures.
- x confidential to meet secrecy requirements of the Statistics Act.

TABLE 1. Principal Statistics, 1961-64

Year and province	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 manufac-ture	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		
1961													
Totals	67	6,986	14,309	31,072	1,878	74,095	138,981	61,173	17	55	10,058	46,316	61,775
1962													
Totals	70	7,331	15,182	34,879	1,828	76,680	140,820	64,713	22	66	9,949	48,896	69,085
1963													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	1	x	x	x	x	x	x	x	x	x	x	x	x
Quebec	9	280	658	965	76	1,477	4,604	3,224	-	-	370	1,451	3,321
Ontario	36	7,289	15,671	39,376	1,742	81,511	152,792	72,468	15	67	9,355	51,139	85,006
Manitoba	15	721	1,363	2,510	127	10,713	17,982	7,515	x	x	856	3,337	7,572
Saskatchewan	9	110	213	388	25	1,253	2,761	1,741	x	x	183	823	1,756
Alberta	9	209	421	772	115	2,329	4,352	2,201	-	-	377	1,569	2,249
British Columbia	3	x	x	x	x	x	x	x	-	-	x	x	x
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	82	8,623	18,354	44,054	2,090	97,426	182,767	87,276	21	82	11,160	58,380	100,031
1964													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	1	x	x	x	x	x	x	x	x	x	x	x	x
Quebec	11	334	813	1,211	64	2,378	5,554	3,347	-	-	441	1,822	3,523
Ontario	38	7,817	16,742	45,024	2,095	111,360	201,715	94,372	11	33	10,096	58,268	102,040
Manitoba	17	980	2,008	3,522	151	15,675	25,019	10,129	x	x	1,144	4,625	10,185
Saskatchewan	13	133	287	526	34	1,545	3,418	2,024	x	x	223	1,103	2,080
Alberta	11	292	611	1,171	144	4,048	7,957	3,969	-	-	552	2,572	4,145
British Columbia	3	x	x	x	x	x	x	x	-	-	x	x	x
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	94	9,569	20,488	51,496	2,494	135,176	243,963	114,022	15	46	12,474	68,448	122,153

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	4	4	6	7	1	9	32	23	2	4	6	10	23
\$ 10,000 to \$ 24,999	5	5	10	12	4	29	81	51	3	12	7	18	50
25,000 " 49,999	5	9	17	27	7	90	161	90	5	10	12	35	90
50,000 " 99,999	16	65	119	195	18	511	1,054	594	7	25	85	272	595
100,000 " 199,999	12	90	185	307	32	819	1,765	959	-	-	121	437	958
200,000 " 499,999	14	191	407	672	50	2,061	3,815	1,838	-	-	265	1,048	1,858
500,000 " 999,999	9	312	635	1,145	70	3,019	6,391	3,395	-	-	438	1,758	3,445
1,000,000 " 4,999,999	11	1,175	2,338	4,489	323	14,102	25,886	12,322	4	30	1,578	6,729	13,508
5,000,000 and over	6	6,772	14,637	37,199	1,584	76,786	143,582	68,005	-	-	8,439	46,940	79,502
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	209	1,135	...
Totals	82	8,623	18,354	44,054	2,090	97,426	182,767	87,276	21	82	11,160	58,380	100,031
1964													
Under \$10,000	3	5	8	14	1	18	21	17	1	1	7	18	17
\$ 10,000 to \$ 24,999	5	5	10	13	3	34	84	78	2	7	8	25	78
25,000 " 49,999	9	15	28	45	6	166	305	152	6	15	21	69	158
50,000 " 99,999	14	54	108	182	26	523	977	491	6	22	70	245	504
100,000 " 199,999	15	125	255	425	34	1,157	2,277	1,286	-	-	164	594	1,309
200,000 " 499,999	21	318	689	1,118	71	3,207	6,233	3,120	-	-	426	1,736	3,219
500,000 " 999,999	8	316	698	1,217	74	3,123	6,272	3,183	-	-	436	1,972	3,544
1,000,000 " 4,999,999	10	950	2,088	4,066	265	11,736	22,376	10,981	-	-	1,254	5,827	11,483
5,000,000 and over	9	7,781	16,604	44,416	2,014	115,212	205,418	94,714	-	-	9,875	56,717	101,841
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	213	1,245	...
Totals	94	9,569	20,488	51,496	2,494	135,176	243,963	114,022	15	46	12,474	68,448	122,153

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	6	10	12	5	23	71	48	4	13	9	17	48
\$ 10,000 to \$ 24,999	7	13	26	35	7	101	208	104	7	18	16	44	107
25,000 " 49,999	15	56	100	175	18	525	1,012	534	6	20	74	242	533
50,000 " 99,999	14	107	217	362	42	1,244	2,203	1,063	-	-	144	529	1,087
100,000 " 199,999	12	164	344	583	37	1,529	3,039	1,533	-	-	212	859	1,531
200,000 " 499,999	10	357	750	1,313	78	3,305	6,830	3,493	-	-	510	2,100	3,727
500,000 " 999,999	6	392	773	1,535	166	7,863	12,052	4,158	4	30	507	2,090	4,191
1,000,000 " 4,999,999	6	837	1,677	3,186	163	9,091	18,871	10,095	-	-	1,134	4,876	11,059
5,000,000 and over	5	6,691	14,458	36,853	1,574	73,745	138,480	66,247	-	-	8,345	46,489	77,748
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	209	1,135	...
Totals	82	8,623	18,354	44,054	2,090	97,426	182,767	87,276	21	82	11,160	58,380	100,031
1964													
Under \$10,000	5	6	10	16	2	27	45	32	2	4	9	22	32
\$ 10,000 to \$ 24,999	10	14	25	40	6	167	305	152	7	19	19	59	157
25,000 " 49,999	15	57	114	187	26	511	941	497	5	17	76	264	511
50,000 " 99,999	17	137	289	467	47	1,607	2,828	1,287	1	5	161	646	1,351
100,000 " 199,999	16	221	457	767	46	2,025	3,932	2,117	-	-	273	1,119	2,180
200,000 " 499,999	9	253	563	931	56	2,675	5,364	2,624	-	-	356	1,524	2,729
500,000 " 999,999	8	486	1,007	1,918	151	6,009	11,368	5,490	-	-	678	2,988	5,991
1,000,000 " 4,999,999	8	1,317	2,868	5,624	258	18,670	33,350	15,489	-	-	1,723	8,036	16,486
5,000,000 and over	6	7,078	15,154	41,547	1,903	103,486	185,830	86,334	-	-	8,946	52,545	92,718
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	213	1,245	...
Totals	94	9,569	20,488	51,496	2,494	135,176	243,963	114,022	15	46	12,474	68,448	122,153

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				Value added
		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		
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.	'000	\$'000					'000	\$'000		\$'000			
1963													
Under \$10,000	7	6	10	12	4	23	71	48	4	13	9	17	48
\$ 10,000 to \$ 24,999	7	13	26	35	7	101	208	104	7	18	16	44	107
25,000 " 49,999	15	56	100	175	18	525	1,012	534	6	20	74	242	533
50,000 " 99,999	13	98	196	326	39	1,021	1,921	973	-	-	131	468	973
100,000 " 199,999	13	173	364	619	40	1,752	3,321	1,624	-	-	225	920	1,648
200,000 " 499,999	9	293	607	1,063	64	2,827	5,805	2,998	-	-	418	1,673	3,044
500,000 " 999,999	7	456	915	1,785	180	8,341	13,077	4,653	4	30	599	2,516	4,875
1,000,000 " 4,999,999	6	837	1,677	3,186	163	9,091	18,871	10,095	-	-	1,134	4,876	11,059
5,000,000 and over	5	6,691	14,458	36,853	1,574	73,745	138,480	66,247	-	-	8,345	46,489	77,748
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	209	1,135	...
Totals	82	8,623	18,334	44,054	2,090	97,426	182,767	87,276	21	82	11,160	58,380	100,031
1964													
Under \$10,000	5	6	10	16	2	27	45	32	2	4	9	22	32
\$ 10,000 to \$ 24,999	11	18	35	56	9	239	385	177	7	19	24	81	182
25,000 " 49,999	13	42	86	143	22	411	805	422	5	17	57	208	434
50,000 " 99,999	16	111	233	387	41	1,474	2,512	1,138	1	5	146	531	1,140
100,000 " 199,999	18	258	531	875	54	2,185	4,304	2,315	-	-	322	1,267	2,443
200,000 " 499,999	10	299	669	1,105	64	3,047	6,250	3,128	-	-	424	1,845	3,227
500,000 " 999,999	6	388	807	1,542	135	5,183	9,177	4,122	-	-	526	2,297	4,381
1,000,000 " 4,999,999	9	1,369	2,962	5,827	265	19,123	34,656	16,352	-	-	1,807	8,405	17,597
5,000,000 and over	6	7,078	15,154	41,547	1,903	103,486	185,830	86,334	-	-	8,946	52,545	92,716
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	213	1,245	...
Totals	94	9,569	20,488	51,496	2,494	135,176	243,963	114,022	15	46	12,474	68,448	122,153

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				Value added
		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		
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.	'000	\$'000					'000	\$'000		\$'000			
1963													
Under 5 employed	21	26	49	78	19	354	740	407	14	39	40	123	407
5 - 14 employed	24	158	326	565	59	1,915	3,560	1,774	3	13	213	830	1,800
15 - 49 "	18	382	780	1,324	73	3,533	7,339	3,874	4	30	500	1,920	3,974
50 - 99 "	8	469	988	1,792	89	7,638	13,901	6,181	-	-	613	2,591	6,319
100-199 "	4	484	1,017	1,818	201	5,960	10,715	4,997	-	-	602	2,510	5,120
200-499 "	3	729	1,401	3,506	165	8,198	19,648	11,949	-	-	1,070	5,433	12,949
500 employed and over	4	6,375	13,794	34,971	1,482	69,827	126,864	58,094	-	-	7,913	43,837	69,462
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	209	1,135	...
Totals	82	8,623	18,334	44,054	2,090	97,426	182,767	87,276	21	82	11,160	58,380	100,031
1964													
Under 5 employed	25	42	80	139	24	587	1,136	610	12	33	60	203	616
5 - 14 employed	25	166	343	607	56	2,105	3,653	1,814	3	13	221	909	1,823
15 - 49 "	20	399	858	1,383	87	3,543	7,108	3,571	-	-	529	2,126	3,719
50 - 99 "	10	552	1,154	2,121	95	6,284	12,410	6,305	-	-	734	3,176	6,889
100-199 "	3	270	596	1,108	133	3,325	6,930	3,747	-	-	429	2,005	3,844
200-499 "	6	1,429	3,094	6,912	300	23,435	41,451	19,429	-	-	1,828	9,456	20,357
500 employed and over	5	6,711	14,364	39,225	1,799	95,898	171,275	78,546	-	-	8,460	49,329	84,904
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	213	1,245	...
Totals	94	9,569	20,488	51,496	2,494	135,176	243,963	114,022	15	46	12,474	68,448	122,153

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	10	15	28	43	10	151	307	149	10	36	15	43	152
Partnerships	4	36	79	134	4	492	1,255	776	11	46	37	142	773
Incorporated companies	68	8,572	16,247	43,877	2,075	96,783	181,205	86,351	...	...	10,899	57,060	99,106
Co-operatives													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	209	1,135	...
Totals	82	8,623	18,354	44,054	2,090	97,426	182,767	87,276	21	82	11,160	58,380	100,031
1964													
Individual ownerships	12	21	40	62	14	278	535	256	15	46	22	64	262
Partnerships													
Incorporated companies	82	9,548	20,448	51,434	2,481	134,898	243,428	113,766	...	...	12,239	67,139	121,892
Co-operatives													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	213	1,245	...
Totals	94	9,569	20,488	51,496	2,494	135,176	243,963	114,022	15	46	12,474	68,448	122,153

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	182,767	243,963	27,537	27,621	210,304	271,584
Inventories—Goods of own manufacture:						
Add closing—Goods in process	24,294	30,645	...	...	24,294	30,645
Finished goods	12,699	14,346	...	...	12,699	14,346
Deduct opening—Goods in process	23,446	24,783	...	...	23,446	24,783
Finished goods	9,523	12,479	...	...	9,523	12,479
2. Net inventory change	4,024	7,729	...	...	4,024	7,729
3. Gross output (1 + 2)	186,791	251,692	27,537	27,621	214,328	279,313
Input						
4. Purchases of goods not of own manufacture .....	...	...	17,883	18,123	17,883	18,123
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	6,445	10,793	6,445	10,793
Deduct closing .....	...	...	10,285	10,235	10,285	10,235
5. Cost of goods sold (not of own manufacture) .....	...	...	14,043	18,681	14,043	18,681
6. Materials, supplies, etc.	97,426	135,176	739	809	98,165	135,985
7. Fuel and electricity	2,090	2,494	...	...	2,090	2,494
6. Gross input (5 + 6 + 7)	99,516	137,670	14,782	19,490	114,298	157,160
Value added (3 - 8)	87,276	114,022	11,257	8,131	100,031	122,153

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	Admini- strative and office	Sales and distrib- ution	Total	
	Manufacturing		Other			Male	Female	Male	Female					Manufacturing	Other
	Male	Female	Male	Female	Male					Female	Male	Female		
	number										\$'000			
1963														
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	x	-	-	-	x	x	-	-	x	x	x	-	x	x
Quebec	275	5	-	-	36	9	45	-	356	14	965	-	233	254 1,451
Ontario	7,237	52	48	-	1,432	304	231	51	6,948	407	39,376	240	9,940	1,583 51,139
Manitoba	714	7	-	-	66	26	35	8	815	41	2,510	-	613	214 3,337
Saskatchewan	108	2	2	-	15	3	43	10	168	15	388	8	126	301 823
Alberta	209	-	-	-	60	14	81	13	350	27	772	-	345	452 1,569
British Columbia	x	-	-	-	x	x	-	-	x	x	x	-	x	- x
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
Totals	8,557	66	50	-	1,613	357	435	82	10,655	505	44,054	248	11,274	2,804 58,380
1964														
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	x	-	-	-	x	x	-	-	x	x	x	-	x	x
Quebec	334	-	-	-	54	13	40	-	428	13	1,211	-	409	201 1,822
Ontario	7,774	43	59	-	1,613	351	202	54	9,648	448	45,024	292	11,464	1,487 58,268
Manitoba	971	9	-	-	80	33	39	12	1,090	54	3,522	-	758	346 4,625
Saskatchewan	133	-	-	-	21	6	54	9	208	15	526	-	198	378 1,103
Alberta	292	-	-	-	103	17	121	19	516	36	1,171	-	576	825 2,572
British Columbia	x	-	-	-	x	x	-	-	x	x	x	-	x	- x
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	- -
Totals	9,517	52	59	-	1,875	421	456	94	11,907	567	51,496	292	13,421	3,238 68,448

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	8,014	67	8,961	59
February	8,570	65	9,309	58
March	8,653	63	9,518	53
April	8,670	65	9,754	50
May	8,472	69	9,815	49
June	8,616	69	9,735	47
July	8,843	64	9,791	44
August	8,316	57	8,062	42
September	8,159	59	9,172	44
October	7,570	56	8,749	46
November	7,638	58	8,339	46
December	8,008	65	8,403	49
Averages	8,294	62	9,174	49
Establishments reporting annual averages (small establishments only)	263	4	343	3
Average for all establishments	8,557	66	9,517	52

TABLE 10. Inventories, 1964

Province	Manufacturing			Total	Non-manufacturing	Total inventories
	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture		Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-
New Brunswick	x	-	x	x	-	x
Quebec	448	309	380	1,137	242	1,379
Ontario	11,353	23,173	9,108	43,633	10,054	53,688
Manitoba	1,357	982	1,369	3,708	45	3,754
Saskatchewan	64	42	411	517	25	542
Alberta	757	277	1,174	2,208	426	2,634
British Columbia	x	-	x	x	-	x
Yukon and Northwest Territories	-	-	-	-	-	-
Totals	14,016	24,783	12,479	51,278	10,793	62,071
Closing:						
Newfoundland	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-
New Brunswick	x	-	x	x	-	x
Quebec	487	380	545	1,412	279	1,691
Ontario	11,700	28,209	10,183	50,092	9,430	59,523
Manitoba	1,628	1,457	1,832	4,916	52	4,969
Saskatchewan	227	327	310	865	9	874
Alberta	671	272	1,383	2,526	464	2,989
British Columbia	x	-	x	x	-	x
Yukon and Northwest Territories	-	-	-	-	-	-
Totals	15,005	30,645	14,346	59,996	10,235	70,231

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	724	656	9
(b) Imported	"	28,449	31,337	302
Sub-bituminous coal (from Alberta mines only)	"	-	-	-
Anthracite coal	"	219	149	2
Lignite coal	"	185	211	2
Coke	"	603	73	3
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	440,282	146	520,962
Fuel oil including kerosene or coal oil	"	4,102,097	390	3,308,796
Wood	cord	110	2	61
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	7,943	2	92,684
(b) Other manufactured gas	M cu. ft.	-	-	-
(c) Natural gas	"	414,971	315	753,299
Other fuel .....	...	...	...	...
Electricity purchased	kwh.	84,294,498	782	106,948,243
Steam purchased .....	...	...	42	...
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	...	...	89	...
3. All establishments:				
Total fuel and electricity used .....	...	...	2,090	2,494

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

Description	1963		1964		
	Quantity	Cost \$'000	Quantity	Cost \$'000	
1. Materials used:					
Iron:					
Pig iron, all grades	ton	6,977	431	6,792	416
Castings (rough and semi-finished received from foundry):					
Iron (gray and malleable)	"	18,474	5,720	28,482	7,008
Steel	"	2,215	829	3,007	975
Steel, hot or cold rolled (except special alloy steel):					
Bars	"	56,822	9,783	62,620	10,397
Plates	"	10,001	1,426	12,454	1,997
Sheets, plain	"	52,770	7,215	66,897	8,750
Sheets, galvanized	"	3,462	621	4,725	889
Strip	"	6,753	1,110	6,497	1,064
Structural shapes (angles, channels, etc.)	"	11,028	1,680	12,064	1,959
Wire	"	523	104	1,317	344
Scrap iron and steel of all kinds .....		...	154	...	264
Pipe, tubing and fittings of iron and steel .....		...	3,101	...	3,850
Other iron and steel (except finished parts) .....		...	1,213	...	7,988
Alloy steel:					
Carbon and alloy tool steels, including high-speed .....		...	4	...	29
Stainless steels .....		...	358	...	705
Other alloy steels .....		...	863	...	1,007
Ferro-alloys .....		...	24	...	28
Non-ferrous metals (all forms, including scrap):					
Aluminum:					
Castings	pound	192,113	145	493,508	227
Sheet	"	144,618	89	139,159	75
Other forms	"	49,730	36	40,620	21
Brass and bronze	"	75,004	56	270,791	154
Lead	"	12,124	2	24,655	4
Zinc	"	355,342	54	535,511	89
Babbitt metal and solder	"	230	--	34,750	28
Other non-ferrous metals .....		...	--	...	329
Other materials and supplies:					
Paints, oils and varnishes .....		...	1,064	...	1,284
Foundry coke (used in cupola, not for heat or power)	ton	2,338	85	2,485	94
Foundry sands	"	3,133	31	3,429	33
Lumber	M ft. b.m.	2,316	246	3,913	449
Fireclay	ton	450	11	449	12
Cupola blocks and firebrick .....		...	50	...	41
Core oil	Imp. gal	9,270	7	9,049	7
All other materials and components used ¹ .....		...	55,468	...	77,960
2. Containers and other packaging materials and supplies used .....		...	542	...	798
3. Operating, maintenance and repair supplies used (excluding fuels) .....		...	3,851	...	4,546
4. Amount paid out to others for work done on materials owned by establishments...		...	1,052	...	1,355
Totals .....		...	97,426	...	135,176

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$2,861,158 in 1963 and \$3,480,019 in 1964.

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

Description	1963		1964	
	Quantity	Value	Quantity	Value
	number	\$'000	number	\$'000
1. Production:				
Planting, seeding and fertilizing machinery:				
Corn planters - Tractor-drawn and tractor-mounted .....	...	1	...	1
Transplanters .....	...	—	...	1
Grain and fertilizer drills (combination) .....	...	1	...	1
Grain drills - Plain and press .....	...	1	...	1
Seed boxes for harrow-plows, one-way discs and tiller-combines	3,895	1,002	4,594	1,174
Manure spreaders .....	...	1	...	1
All other planting, seeding and fertilizing machines .....	...	11,194	...	11,513
Plows:				
Mouldboard plows - Tractor-drawn or tractor-mounted	2	2	2	2
Disc plows - Tractor-drawn	2	2	2	2
Harrow-plows, one-way discs, tiller-combines	1	2	1	1
All other plows	28,790	9,917	21,811	10,412
Tilling, cultivating and weeding machines:				
Harrows:				
Drag (sections)	48,208	504	42,240	488
Spring-tooth (sections)	6,306	299	6,394	216
Disc - Tractor-drawn or mounted	8,721	2,158	6,803	2,402
Soil packers	7,217	492	8,048	615
Field cultivators:				
Tractor-drawn	9,600	3,739	12,302	5,690
Tractor-mounted .....	...	...	...	...
Rod weeders	5,881	2,193	4,839	2,184
Other tilling, cultivating and weeding machines .....	...	2,435	...	2,289
Haying machinery:				
Mowers, tractor-drawn or mounted	25,150	6,711	...	4
Side rakes and tedders .....	...	4	...	4
All other haying machinery (including hay balers, hay carriers, etc.) .....	...	14,217	...	10,713
Harvesting machinery:				
Combine reaper-threshers and stationary threshers .....	...	5	...	4
Swathers and windrowers	11,257	15,033	15,326	19,700
Potato diggers - Horse or tractor-drawn	237	124	...	5
All other harvesting machines (including headers, push harvesters) .....	...	3,132	...	10,402
Machines for preparing crops for market or use:				
Grain grinders	1,784	145	1,123	250
Fanning mills or grain cleaners	513	370	...	6
Hammermills	308	60	323	111
Grain elevators	7,903	1,183	8,529	1,334
All other machines for preparing crops for market or use .....	...	612	...	1,211
Spraying and dusting equipment:				
All types (including attachments) .....	...	2,042	...	2,187
Farm wagons, trucks and sleighs:				
Wagon boxes .....	...	7	...	7
Wagon gears (standard)	19,486	3,063	18,723	3,178
Forage boxes .....	...	7	...	7
All other farm wagons, sleighs and trucks .....	...	797	...	465
Dairy machinery and equipment, including cream separators, milking machines, etc. ....	...	5	...	5
Miscellaneous farm implements and machinery .....	...	50,913	...	77,170
Parts and accessories for farm implements and machinery .....	...	16,974	...	13,513
Total farm machinery and parts .....	...	149,309	...	183,219
All other products .....	...	33,558	...	60,846
2. Amount received in payment for work done on materials and products owned by others .....	...	71	...	48
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above ...	...	(171)	...	(149)
Net adjustment for establishments receiving progress payments .....	...	—	...	—
Total adjusted value of shipments and work done .....	...	182,767	...	243,963

¹ Included with "All other planting, seeding and fertilizing machinery".

² Included with "All other plows".

³ Included with "Other tilling, cultivating and weeding machines".

⁴ Included with "All other haying machinery".

⁵ Included with "Miscellaneous farm implement and machinery".

⁶ Included with "All other machines for preparing crops".

⁷ Included with "All other farm wagons".

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries, 1955 - 64
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

A. Plows

Year	Number	Value \$'000	Year	Number	Value \$'000
1955	24,210	4,163	1960	20,707	5,486
1956	19,573	3,272	1961	20,845	7,202
1957	13,848	2,269	1962	x	x
1958	38,248	2,993	1963	x	x
1959	21,640	4,178	1964	x	x

B. Mowers

Year	Number	Value \$'000	Year	Number	Value \$'000
1955	19,579	4,988	1960	25,682	5,905
1956	14,739	3,497	1961	16,683	3,667
1957	12,225	3,003	1962	22,035	5,683
1958	17,028	4,215	1963	25,150	6,711
1959	30,605	7,008	1964	x	x

C. Harrows

Year	Number	Value \$'000	Year	Number	Value \$'000
1955	50,352	3,058	1960	48,623	3,391
1956	44,016	2,943	1961	43,636	3,407
1957	49,602	3,115	1962	43,758	2,688
1958	35,549	3,969	1963	65,304	2,991
1959	50,031	5,628	1964	x	x

D. Threshers and Reaper-threshers

Year	Number	Value \$'000	Year	Number	Value \$'000
1955	11,621	36,465	1960	14,265	41,421
1956	10,742	36,506	1961	9,858	31,793
1957	9,669	34,186	1962	x	x
1958	14,645	41,482	1963	x	x
1959	18,134	51,074	1964	x	x

E. Seed Drills

Year	Number	Value \$'000	Year	Number	Value \$'000
1955	1,881	775	1960	786	288
1956	1,024	439	1961	1,181	587
1957	994	497	1962	x	x
1958	606	93	1963	x	x
1959	1,255	637	1964	x	x

F. One-way Discs, Harrow-plows and Tiller-combines

Year	Number	Value \$'000	Year	Number	Value \$'000
1955	3,279	1,719	1960	5,861	3,549
1956	4,392	2,678	1961	2,740	3,747
1957	4,403	3,140	1962	3,913	2,801
1958	4,158	2,756	1963	7,237	5,362
1959	3,996	2,729	1964	7,729	6,649

G. Cultivators

Year	Number	Value \$'000	Year	Number	Value \$'000
1955	12,870	2,809	1960	14,333	5,065
1956	13,726	3,752	1961	11,267	4,100
1957	11,222	3,627	1962	12,233	3,559
1958	12,606	3,323	1963	15,697	5,037
1959	21,394	6,637	1964	17,107	6,822

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries, 1955-64 - Continued
H. Weeders and Corn Planters

Year	Rod Weeders		Corn planters	
	Number	Value	Number	Value
		\$'000		\$'000
1955.....	1,658	480	1,608	223
1956.....	1,577	314	1,352	218
1957.....	1,995	430	2,079	454
1958.....	1,585	333	810	252
1959.....	2,836	683	1,347	322
1960.....	4,980	1,417	894	171
1961.....	5,898	1,126	1,924	351
1962.....	7,370	1,995	x	x
1963.....	5,881	2,193	x	x
1964.....	4,839	2,184	x	x

I. Hay Loaders and Hay Rakes

Year	Hay loaders		Hay rakes, including combination side rakes and tedders	
	Number	Value	Number	Value
		\$'000		\$'000
1955.....	1,272	286	9,937	2,184
1956.....	304	63	6,987	1,155
1957.....	212	54	7,204	2,079
1958.....	149	30	8,784	4,870
1959.....	828	71	9,767	3,417
1960.....	25	15	6,304	1,784
1961.....	21	7	5,238	1,415
1962.....	x	x	x	x
1963.....	x	x	x	x
1964.....	x	x	x	x

J. Manure Spreaders

Year	Number	Value	Year	Number	Value
		\$'000			\$'000
1955.....	5,276	1,782	1960.....	8,042	4,048
1956.....	4,531	1,591	1961.....	3,489	1,709
1957.....	3,643	1,347	1962.....	x	x
1958.....	4,185	1,646	1963.....	x	x
1959.....	5,502	2,591	1964.....	x	x

K. Factory Shipments of Agricultural Implements and Parts

Year	Factory shipments
	\$'000
1955.....	109,701
1956.....	117,656
1957.....	117,896
1958.....	129,088
1959.....	151,974
1960.....	140,695
1961.....	120,795
1962.....	122,546
1963.....	155,029
1964.....	190,927

Note: In Table 8K shipments values are computed at factory selling prices.

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
New Brunswick:	
Thomas Bros.	Centreville
Quebec:	
DeLorme, Hector & Fils Inc.	Farnham
Desjardins Limitée	St-André-de-Kamouraska
Dion Frères Inc.	Ste-Thérèse-de-Blainville
Houle & Fils Inc.	Wickham
Iberville Mach'y. Co. Ltd.	R.R. 2, St-Édouard
La Cie R.A. Lajoie Ltée	St-Pie
La Compagnie Jutras Ltée	Victoriaville
La Machinerie Idéale Ltée	St-Césaire
Ledoux, V. Steel Products Limited	St-Hyacinthe
Lemay, Armand & Fils Ltée	St-Basile-Le-Grand
Safeway Farm Equipment Co. Limited	Rougemont
Ontario:	
B.T.L. Mfg. Co. Ltd.	Burford
Baertsoen, Frank & Sons	R.R. #5, Aylmer
Balthe's Farm Equipment Mfg. Ltd.	Tillsonburg
Blenheim Manufacturing Ltd.	Blenheim
Canadian Farm Machinery	Oak Ridges
Canadian Hydroponics Ltd.	Tillsonburg
Canadian Potato Machinery Co. Ltd.	Galt
Cockshutt Farm Equipment of Canada Ltd.	Brantford
Deere, John Welland Works of John Deere Limited	Welland
De Laval Company Limited	Peterborough
Delhi Foundry & Farm Machinery Limited	Delhi
Douglas, Brown & Campbell Ltd.	Melbourne
Eagle Tie Machine Co.	Adelaide & Princess St., London
Ebersol Farm Equipment Co. Limited	Milverton
Enright Metal Products	Preston
Fleury-Bissell Implements Limited	Elora
Gray-Snyder Limited	Heidelberg
Graph's Cooler Limited	Preston
Harris Manufacturing	Jarvis
Indor Farm Equipment	Clifford
International Harvester Co. of Canada Ltd.	Sherman Ave., Hamilton
Jackson's Manufacturing & Machinery Ltd.	Tillsonburg
Jamesway Co. Limited	Preston
Lobsinger Bros. Ltd.	Mildmay
Martin Metals	R.R. #2, Waterloo
McKee Bros. Ltd.	Elmira
Massey Ferguson Ltd.	915 King St. W., Toronto 3
Massey Ferguson Ltd.	Woodstock
Massey Ferguson Ltd.	Brantford
Massey Ferguson (Brantford) Ltd.	Brantford
Prometals Limited	Dutton
Rittenhouse, M.K. & Sons Limited	Jordan Station
Sedore, Ernest & Son	Mount Albert
Smale, W.R. Co. Ltd.	Mossley
Snyder, G.H.	Copetown
South Shore Mfg. Co. Ltd.	West Lorne
Tomen Manufacturing Ltd.	3 Wood St., Chatham
White, Geo. & Sons Co. Ltd.	Cabell St., London
Manitoba:	
Canadian Co-operative Implements Ltd.	601 Bowman Ave., East Kildonan
Cascade Brothers Ltd.	Brandon
Farm Master Mfg. Ltd.	Springfield Rd., North Kildonan
Forever Industries Limited	115 Robinson St., Winnipeg
Imperial Steel Products Ltd.	901 Madison St., St. James
Inland Steel & Forgings (1962) Ltd.	675 Washington Ave., Winnipeg
Jones, C. & J. Ltd.	130 Portage Ave. E., Winnipeg
Killbery Industries Ltd.	631 Ferry Rd., St. James
Loewen Mfg. Co. Ltd.	Altona
Malco Mfg. Div. of Alco Equipment Ltd.	753 Marion St., St. Boniface
Markwill Industries Ltd.	450 Youville St., St. Boniface
Min-Toba Industries Ltd.	Minnedosa
Northern Equipment Limited	Portage La Prairie
Plett's Industries	Rosenort
Simon-Day Ltd. (Hart Emerson Simon Div.)	1425 Whyte Ave., Winnipeg
Standard Gas Engine Works Limited	Morden
Versatile Mfg. Ltd.	1260 Clarence Ave., Winnipeg
Saskatchewan:	
Brandt Machine & Mfg. Ltd.	1101 Winnipeg St., Regina
Brown Industries Ltd.	Drinkwater
Bussiere, R. & Sons Rockomatic Ltd.	Vonda
Craik Mfg. Co. Ltd.	Craik
Crown Implement Mfg. Ltd.	Saskatoon
Degelman Industries Ltd.	Raymore
Doepker Industries Ltd.	Annahelm
Flexi-Coil Land Packers Ltd.	Saskatoon
Fibro Industries Ltd.	410 Quebec St., Regina
Inghan Industries Ltd.	Lanigan
Morris Rod Weeder Co. Ltd.	Yorkton
Nodge Manufacturing Co.	Swift Current
Schroeder, J.P.	Holdfast

List of Establishments classified to This Industry, 1964 - Concluded

Name	Location
Alberta:	
Diamond Manufacturing Co. Ltd.	Claresholm
Golden Arrow Manufacturing Ltd.	1439- 17th Ave. S.E., Calgary
Hanna Manufacturing Ltd.	Hanna
Kirchner Machine Ltd.	Lethbridge
McCoy-Fenn Mfg. Ltd.	419-34th Ave. S.E., Calgary
McKee-Stuppard Mfg. Ltd.	Red Deer
Noble Cultivators Ltd.	Nobleford
Robin-Nodwell Mfg. Ltd.	P.O. Box 1450, Calgary
Rotary Plow Co. Ltd.	4515-6th St. N.E., Calgary
Success Automatic Land Leveller Co. Ltd.	Medicine Hat
Victory Equipment Ltd.	Lethbridge
British Columbia:	
A & S Manufacturing Ltd.	R.R. 1., Winfield
Irrigation Products Ltd.	Osoyoos
Okanagan Turbo Sprayers Ltd.	Penticton

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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