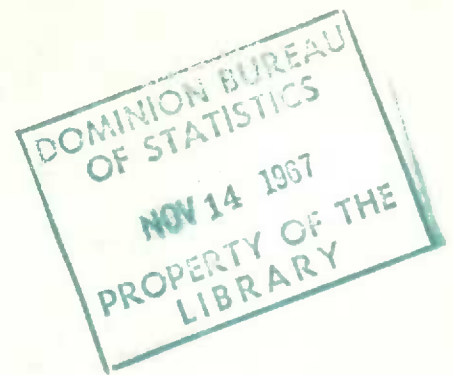


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ANNUAL



AGRICULTURAL IMPLEMENT INDUSTRY

1965

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PUBLICATIONS

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AGRICULTURAL IMPLEMENT INDUSTRY

1965

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.

A review of the principal statistics for this industry indicates that total employment increased by 1,247 persons and total salaries and wages by \$7,162,000. The total number of production employees increased by 1,030 and during the same period total manhours paid increased by 1,822,000.

The total value of shipments increased by 17 per cent, the value of production increased by 16 per cent, the cost of materials used in the manufacturing process increased by 20 per cent and value added on products of own manufacture increased by 11 per cent.

The ratio of cost of materials used to value of production was 55.7 per cent in 1965 in comparison to 53.7 per cent in 1964.

The total value of farm implements and farm equipment produced during 1965 by the firms classified to this industry represented 75 per cent of their total value of production. Some of the non-farm products were grey iron castings, bulldozer blades, hydraulic equipment, heating boilers, miscellaneous construction equipment, logging equipment, hardware and steel tubing.

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, 1961-65

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 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		
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													
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
1965													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	11	368	877	1,399	89	2,710	6,492	3,866	-	-	466	2,011	4,347
Ontario	40	8,490	17,735	47,981	2,209	133,622	231,841	100,216	13	62	10,923	63,283	107,888
Manitoba.....	16	1,187	2,534	4,638	179	19,055	31,385	13,715	x	x	1,398	5,944	13,777
Saskatchewan	13	196	417	738	48	2,076	4,718	2,981	x	x	318	1,432	3,154
Alberta	13	347	726	1,462	119	5,032	10,359	5,783	-	-	599	2,869	6,006
British Columbia.....	3	11	22	43	4	177	304	182	-	-	17	70	182
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	96	10,599	22,310	56,261	2,648	162,671	285,099	126,743	14	72	13,721	75,610	135,353

TABLE 2. Principal Statistics classified by Size Group based on Value of Shipments of Goods of Own Manufacture, 1964 and 1965

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		
1964													
Under \$10,000	3	5	8	14	1	18	21	17	1	1	7	16	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	8	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	355	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
1965													
Under \$10,000	10	12	20	32	4	74	162	93	3	8	19	54	93
\$ 10,000 to \$ 24,999	6	17	32	52	4	112	219	137	5	20	22	70	137
25,000 " 49,999	11	50	102	176	12	517	846	400	3	13	66	246	411
50,000 " 99,999	13	118	238	396	28	968	1,938	989	1	10	152	541	1,071
100,000 " 199,999	25	380	786	1,343	95	3,939	7,144	3,458	-	-	489	2,024	3,719
200,000 " 499,999	10	338	751	1,403	93	3,318	7,154	3,885	2	21	489	2,377	4,427
500,000 " 999,999	11	989	2,166	3,933	230	11,879	25,802	15,145	-	-	1,287	5,745	15,870
1,000,000 " 4,999,999	10	8,695	18,214	48,925	2,181	141,865	241,834	102,636	-	-	10,959	63,311	109,624
5,000,000 and over	11	...	...	...	...	...	...	...	...	...	238	1,240	...
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	238	1,240	...
Totals	96	10,599	22,310	56,261	2,648	162,671	285,099	126,743	14	72	13,721	75,610	135,353

TABLE 3. Principal Statistics classified by Size Group based on Manufacturing Value Added, 1964 and 1965

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		
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	181	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	92,716
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
1965													
Under \$10,000	3	2	2	3	1	11	28	16	2	4	3	6	16
\$ 10,000 to \$ 24,999	12	27	51	78	7	262	367	130	6	23	36	106	130
25,000 " 49,999	12	50	102	185	12	593	990	447	3	13	68	249	458
50,000 " 99,999	16	124	252	425	35	1,342	2,496	1,176	1	10	160	617	1,233
100,000 " 199,999	19	325	671	1,173	85	2,856	5,413	2,616	-	-	418	1,758	2,905
200,000 " 499,999	11	285	629	1,113	75	3,246	6,310	3,287	2	21	396	1,805	3,661
500,000 " 999,999	7	417	865	1,573	86	4,589	9,325	4,816	-	-	558	2,467	5,141
1,000,000 " 4,999,999	10	1,683	3,639	7,541	357	26,438	47,033	22,697	-	-	2,187	10,443	24,445
5,000,000 and over	6	7,686	16,100	44,172	1,991	123,333	213,137	91,558	-	-	9,657	56,918	97,966
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	238	1,240	...
Totals	96	10,599	22,310	56,261	2,648	162,671	285,099	126,743	14	72	13,721	75,610	135,353

TABLE 4. Principal Statistics classified by Size Group based on Total Value Added, 1964 and 1965

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			
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
1965													
Under \$10,000	3	2	2	3	1	11	28	16	2	4	3	6	16
\$ 10,000 to \$ 24,999	12	27	51	78	7	262	367	130	6	23	36	106	130
25,000 " 49,999	12	50	102	185	12	593	990	447	3	13	68	249	458
50,000 " 99,999	15	119	241	407	33	1,262	2,312	1,082	1	10	147	551	1,081
100,000 " 199,999	18	287	585	1,020	71	2,700	4,885	2,422	-	-	370	1,557	2,503
200,000 " 499,999	11	257	556	996	66	2,721	5,537	2,841	2	21	360	1,629	3,189
500,000 " 999,999	9	488	1,035	1,861	110	5,350	10,808	5,549	-	-	655	2,909	6,166
1,000,000 " 4,999,999	10	1,683	3,639	7,541	357	26,438	47,033	22,697	-	-	2,187	10,443	24,445
5,000,000 and over	6	7,686	16,100	44,172	1,991	123,333	213,137	91,558	-	-	9,657	56,918	97,366
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	238	1,240	...
Totals	96	10,599	22,310	56,261	2,648	162,671	285,099	126,743	14	72	13,721	75,610	135,353

TABLE 5. Principal Statistics classified by Size Group based on Total Employed, 1964 and 1965

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			
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	7,106	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
1965													
Under 5 employed	19	32	59	102	13	353	738	414	9	38	48	166	425
5 - 14 employed	26	161	331	601	49	2,311	3,859	1,666	3	13	219	940	1,722
15 - 49 "	26	550	1,169	1,991	130	4,931	9,728	5,012	2	21	700	2,892	5,405
50 - 99 "	9	451	952	1,809	108	4,735	10,726	6,141	-	-	644	2,986	6,726
100-199 "	5	505	1,082	2,014	121	7,256	14,804	8,566	-	-	668	2,996	8,681
200-499 "	5	1,214	2,618	5,572	236	19,752	32,106	13,385	-	-	1,547	7,472	15,029
500 employed and over	6	7,686	16,100	44,172	1,991	123,333	213,137	91,558	-	-	9,657	56,918	97,366
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	238	1,240	...
Totals	96	10,599	22,310	56,261	2,648	162,671	285,099	126,743	14	72	13,721	75,610	135,353

TABLE 6. Principal Statistics classified by Type of Organization, 1964 and 1965

Type of organization	Establishments	Manufacturing activity							Total activity					
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added	
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages		
No.		'000			\$'000				\$'000		\$'000			
1964														
Individual ownerships	}	12	21	40	62	14	278	535	256	15	46	22	64	262
Partnerships		82	9,548	20,448	51,434	2,481	134,898	243,428	113,766	...	...	12,239	67,139	121,892
Incorporated companies	}	213	1,245	...	
Co-operatives		94	9,569	20,488	51,496	2,494	135,176	243,963	114,022	15	46	12,474	68,448	122,153
Head offices, sales offices and auxiliary units														
Totals														
1965														
Individual ownerships	}	10	53	112	220	11	376	930	514	14	72	61	265	512
Partnerships		86	10,546	22,198	56,041	2,637	162,296	284,169	126,229	...	...	13,422	74,104	134,841
Incorporated companies	}	238	1,240	...	
Co-operatives		96	10,599	22,310	56,261	2,648	162,671	285,099	126,743	14	72	13,721	75,610	135,353
Head offices, sales offices and auxiliary units														
Totals														

TABLE 7. Calculation of Output, Input and Value Added, 1964 and 1965

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1964	1965	1964	1965	1964	1965
\$'000						
Output						
1. Shipments and other revenue	243,963	285,099	27,621	36,101	271,584	321,199
Inventories— Goods of own manufacture:						
Add closing— Goods in process	30,645	34,608	...	...	30,645	34,608
Finished goods	14,346	17,354	...	...	14,346	17,354
Deduct opening— Goods in process	24,783	30,789	...	...	24,783	30,789
Finished goods	12,479	14,209	...	...	12,479	14,209
2. Net inventory change	7,729	6,964	...	...	7,729	6,964
3. Gross output (1 + 2)	251,692	292,063	27,621	36,101	279,313	328,163
Input						
4. Purchases of goods not of own manufacture .....	...	...	18,123	26,401	18,123	26,401
Inventories— Goods not of own manufacture:						
Add opening .....	...	...	10,793	10,265	10,793	10,265
Deduct closing .....	...	...	10,235	10,159	10,235	10,159
5. Cost of goods sold (not of own manufacture) .....	...	...	18,681	26,507	18,681	26,507
6. Materials, supplies, etc.	135,176	162,671	809	983	135,985	163,654
7. Fuel and electricity	2,494	2,648	...	...	2,494	2,648
8. Gross input (5 + 6 + 7)	137,670	165,319	19,490	27,490	157,160	192,809
Value added (3 - 8)	114,022	126,743	8,131	8,611	122,153	135,353

TABLE 8. Employment and Payroll, 1964 and 1965

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis-trative and office		Sales and distribution		Total		Production and related workers		Adminis-trative and office	Sales and distri-bution	Total
	Manufacturing		Other		Male	Female	Male	Female	Male	Female	Manufacturing	Other			
	Male	Female	Male	Female											
	number										\$'000				
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	
Ontario	7,774	43	59	-	1,613	351	202	54	9,648	448	45,024	292	11,464	1,487	
Manitoba	971	9	-	-	80	33	39	12	1,090	54	3,522	-	758	346	
Saskatchewan	133	-	-	-	21	6	54	9	208	15	526	-	198	378	
Alberta	292	-	-	-	103	17	121	19	516	36	1,171	-	576	825	
British Columbia	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	
1965															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Quebec	367	1	-	-	60	13	25	-	452	14	1,399	-	431	181	
Ontario	8,451	39	81	-	1,718	364	217	53	10,467	456	47,981	408	13,306	1,588	
Manitoba	1,184	3	-	-	115	46	41	9	1,340	58	4,638	-	1,000	306	
Saskatchewan	196	-	1	-	31	11	67	12	295	23	738	5	257	432	
Alberta	347	-	2	-	86	17	126	21	561	38	1,462	10	548	849	
British Columbia	11	-	-	-	4	2	-	-	15	2	43	-	27	-	
Yukon and Northwest Terri-tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Totals	10,556	43	84	-	2,014	453	476	95	13,130	591	56,261	424	15,569	3,356	

TABLE 9. Production and Related Workers, - Manufacturing Activity, 1964 and 1965

Month	1964		1965	
	Male	Female	Male	Female
	number			
Establishments reporting monthly detail (large establishments only):				
January	8,961	59	10,187	46
February	9,309	58	10,527	44
March	9,518	53	10,910	38
April	9,754	50	10,976	39
May	9,815	49	10,817	37
June	9,735	47	10,586	33
July	9,791	44	9,901	37
August	8,062	42	9,122	35
September	9,172	44	9,327	41
October	8,749	46	9,942	47
November	8,339	46	10,281	52
December	8,403	49	10,452	53
Averages	9,174	49	10,253	42
Establishments reporting annual averages (small establishments only)	343	3	303	1
Average for all establishments	9,517	52	10,556	43

TABLE 10. Inventories, 1965

Province	Manufacturing				Non-manufacturing	Total inventories
	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-
Quebec	521	380	495	1,397	279	1,676
Ontario	11,756	28,337	10,122	50,215	9,462	59,677
Manitoba	1,701	1,449	1,824	4,974	52	5,026
Saskatchewan	226	335	298	859	14	873
Alberta	876	288	1,404	2,568	457	3,025
British Columbia	66	-	66	132	-	132
Yukon and Northwest Territories	-	-	-	-	-	-
Totals	15,146	30,789	14,209	60,145	10,265	70,409
Closing:						
Newfoundland	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-
Quebec	718	263	785	1,767	-	1,767
Ontario	13,509	31,432	11,233	56,174	9,620	65,794
Manitoba	2,497	2,489	2,347	7,333	55	7,388
Saskatchewan	418	55	965	1,438	31	1,469
Alberta	1,188	370	1,899	3,457	452	3,909
British Columbia	123	-	125	249	-	249
Yukon and Northwest Territories	-	-	-	-	-	-
Totals	18,455	34,608	17,354	70,416	10,159	80,575

TABLE 11. Purchased Fuel and Electricity Used, 1964 and 1965

Description	1964		1965		
	Quantity	Cost	Quantity	Cost	
		\$'000		\$'000	
1. Large establishments reporting commodity detail:					
Bituminous coal:					
(a) From Canadian mines	ton	656	9	118	2
(b) Imported	"	31,337	302	31,048	299
Sub-bituminous coal (from Alberta mines only)	"	-	-	-	-
Anthracite coal	"	149	2	-	-
Lignite coal	"	211	2	220	2
Coke	"	73	3	51	2
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	520,962	163	600,233	199
Fuel oil including kerosene or coal oil	"	3,308,796	381	3,843,303	383
Wood	cord	61	1	-	-
Gas:					
(a) Liquefied petroleum gases	Imp. gal.	92,684	20	80,966	18
(b) Other manufactured gas	M cu. ft.	-	-	-	-
(c) Natural gas	"	753,299	554	882,840	625
Other fuel .....	...	...	-	...	-
Electricity purchased	kwh.	106,948,243	957	111,766,555	1,044
Steam purchased .....	...	...	-	...	-
2. Small establishments not reporting commodity detail:					
Estimate for fuel and electricity .....	...	...	102	...	77
3. All establishments:					
Total fuel and electricity used .....	...	...	2,494	...	2,648

TABLE 12. Materials and Supplies - Manufacturing Activity, 1964 and 1965

Description	1964		1965		
	Quantity	Cost	Quantity	Cost	
		\$'000		\$'000	
1. Materials used:					
Iron:					
Pig iron, all grades	ton	6,792	416	7,444	464
Castings (rough and semi-finished received from foundry):					
Iron (gray and malleable)	"	28,482	7,008	28,253	8,216
Steel	"	3,007	975	5,172	1,720
Steel, hot or cold rolled (except special alloy steel):					
Bars	"	62,620	10,397	72,337	11,915
Plates	"	12,454	1,997	17,738	2,552
Sheets, plain	"	66,897	8,750	62,663	9,095
Sheets, galvanized	"	4,725	889	10,146	1,470
Strip	"	6,497	1,064	7,231	1,126
Structural shapes (angles, channels, etc.)	"	12,064	1,959	13,442	2,299
Wire	"	1,317	344	863	189
Scrap iron and steel of all kinds .....		...	264	...	354
Pipe, tubing and fittings of iron and steel .....		...	3,850	...	4,430
Other iron and steel (except finished parts) .....		...	7,988	...	13,350
Alloy steel:					
Carbon and alloy tool steels, including high-speed .....		...	29	...	31
Stainless steels .....		...	705	...	697
Other alloy steels .....		...	1,007	...	1,163
Fe-ro-alloys .....		...	28	...	30
Non-ferrous metals (all forms, including scrap):					
Aluminum:					
Castings	pound	493,508	227	598,871	317
Sheet	"	139,159	75	207,775	92
Other forms	"	40,620	21	28,897	18
Brass and bronze	"	270,791	154	137,947	97
Lead	"	24,655	4	-	-
Zinc	"	535,511	89	364,875	64
Babbitt metal and solder	"	34,750	28	32,757	26
Other non-ferrous metals .....		...	329	...	330
Other materials and supplies:					
Paints, oils and varnishes .....		...	1,284	...	1,494
Foundry coke (used in cupola, not for heat or power)	ton	2,485	94	2,739	107
Foundry sands	"	3,429	33	3,673	40
Lumber	M ft. b.m.	3,913	449	3,114	354
Fireclay	ton	449	12	555	14
Cupola blocks and firebrick .....		...	41	...	61
Core oil	Imp. gal.	9,049	7	8,906	8
All other materials and components used ¹ .....		...	77,960	...	93,215
2. Containers and other packaging materials and supplies used .....		...	798	...	1,000
3. Operating, maintenance and repair supplies used (excluding fuels) .....		...	4,548	...	5,153
4. Amount paid out to others for work done on materials owned by establishments .....		...	1,356	...	1,181
Totals .....		...	135,176	...	162,671

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$3,480,019 in 1964 and \$2,858,753 in 1965.

TABLE 13. Shipments of Goods of Own Manufacture, 1964 and 1965

Description	1964		1965	
	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	...	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	4,594	1,174	...	1
Manure spreaders .....	...	1	...	1
All other planting, seeding and fertilizing machines .....	...	11,513	...	12,467
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	2	2	2	2
All other plows	21,811	10,412	24,054	11,036
Tilling, cultivating and weeding machines:				
Harrow:				
Drag (sections)	42,240	488	43,197	457
Spring-tooth (sections)	6,394	216	6,887	294
Disc, tractor-drawn or mounted	6,803	2,402	6,313	2,264
Soil packers	8,048	615	9,498	732
Field cultivators:				
Tractor-drawn	12,302	5,690	18,552	9,228
Tractor-mounted .....	...	...	...	32
Rod weeders	4,839	2,184	...	3
Other tilling, cultivating and weeding machines .....	...	2,289	...	5,389
Haying machinery:				
Mowers, tractor-drawn or mounted .....	...	4	...	4
Side rakes and tedders .....	...	4	...	4
All other haying machinery (including hay balders, hay carriers, etc.) .....	...	16,715	...	18,247
Harvesting machinery:				
Combine reaper-threshers and stationary threshers .....	...	5	...	5
Swathers and windrowers	15,326	19,700	16,842	21,409
Potato diggers, horse or tractor-drawn .....	...	5	...	5
All other harvesting machines (including headers, push harvesters) .....	...	10,402	...	9,314
Machines for preparing crops for market or use:				
Grain grinders	1,123	250	1,101	245
Fanning mills or grain cleaners .....	...	6	584	706
Hammermills	323	111	...	6
Grain elevators	8,529	1,334	9,760	1,620
All other machines for preparing crops for market or use .....	...	1,211	...	692
Spraying and dusting equipment:				
All types (including attachments) .....	...	2,187	...	2,463
Farm wagons, trucks and sleighs:				
Wagon boxes .....	...	7	...	7
Wagon gears (standard)	18,723	3,178	18,320	2,982
Forage boxes .....	...	7	2,109	472
All other farm wagons, sleighs and trucks .....	...	465	...	988
Dairy machinery and equipment, including cream separators, milking machines, etc. ....	...	5	...	5
Miscellaneous farm implements and machinery .....	...	77,170	...	92,720
Parts and accessories for farm implements and machinery .....	...	13,513	...	16,851
Total farm machinery and parts .....	...	183,219	...	211,310
All other products .....	...	60,846	...	74,061
2. Amount received in payment for work done on materials and products owned by others .....	...	48	...	58
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....	...	(149)	...	(329)
Net adjustment for establishment receiving progress payments .....	...	-	...	-
Total adjusted value of shipments and work done .....	...	243,963	...	285,099

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

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, 1956 - 65
 (Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

A. Plows

Year	Number	Value	Year	Number	Value
		\$'000			\$'000
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
1960	20,707	5,486	1965	x	x

B. Mowers

Year	Number	Value	Year	Number	Value
		\$'000			\$'000
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
1960	25,682	5,905	1965	x	x

C. Harrows

Year	Number	Value	Year	Number	Value
		\$'000			\$'000
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
1960	48,623	3,391	1965	56,397	3,015

D. Threshers and Reaper-threshers

Year	Number	Value	Year	Number	Value
		\$'000			\$'000
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
1960	14,265	41,421	1965	x	x

E. Seed Drills

Year	Number	Value	Year	Number	Value
		\$'000			\$'000
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
1960	786	288	1965	x	x

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

Year	Number	Value	Year	Number	Value
		\$'000			\$'000
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
1960	5,861	3,549	1965	8,143	7,098

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries, 1956 - 65 - Concluded
G. Cultivators

Year	Number	Value	Year	Number	Value
		\$'000			\$'000
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
1960	14,333	5,065	1965	22,187	10,198

H. Weeders and Corn Planters

	Rod weeders		Corn planters	
	Number	Value	Number	Value
		\$'000		\$'000
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
1965	6,408	2,928	x	x

I. Hay Loaders and Hay Rakes

	Hay loaders		Hay rakes, including combination side rakes and tedders	
	Number	Value	Number	Value
		\$'000		\$'000
1956	304	63	6,987	1,155
1957	212	54	7,204	2,079
1958	149	30	8,784	4,872
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
1965	x	x	x	x

J. Manure Spreaders

Year	Number	Value	Year	Number	Value
		\$'000			\$'000
1956	4,531	1,591	1961	3,489	1,709
1957	3,643	1,347	1962	x	x
1958	4,165	1,646	1963	x	x
1959	5,502	2,591	1964	x	x
1960	8,042	4,048	1965	3,721	1,859

K. Factory Shipments of Agricultural Implements and Parts

Year	Factory shipments
	\$'000
1956	117,656
1957	117,896
1958	129,088
1959	151,974
1960	140,693
1961	120,795
1962	122,540
1963	155,029
1964	190,927
1965	220,476

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

List of Establishments classified to this Industry, 1965

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

Name	Location
Quebec:	
DeLorme, Hector & Fils Inc.	Farnham
Desjardins Limitée	St-André-de-Kamouraska
Dion Frères Inc.	Ste-Thérèse-de-Blainville
Houle & Fils Inc.	Wickham
LaCie Hydraulic Vincent Ltée	La Valerin
La Cie R.A. Lajole Ltée	St-Pie
La Compagnie Jutras Ltée	Victoriaville
La Machinerie Idéale Ltée	St-Césaire
Lemay, Armand & Fils Ltée	St-Basile-le-Grand
Machinerie Iberville Cie Ltée	R.R. 2, Iberville
Safeway Farm Equipment Co. Limited	Rougemont
Ontario:	
Baertsoen, Manufacturing	R.R. 5, Aylmer
Balthe's Farm Equipment Mfg. Ltd.	Tillsonburg
Blenheim Manufacturing Ltd.	Blenheim
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
Deihi 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	St. Mary's
Grace Potato Harvesters Ltd.	Heidelberg
Groh's Cooler Limited	Preston
Harris Manufacturing	Jarvis
Incor Farm Equipment	Clifford
International Harvester Co. of Canada Ltd.	Sherman Ave., Hamilton
Jackson's Manufacturing & Machinery Ltd.	Tillsonburg
Jamesway Co. Limited	Preston
Kelvin-Thompson Co. Ltd., The	Bayly St., Ajax
Lilliston-Canada Ltd.	1444 Spear St., Oakville
Lobsinger Bros. Ltd.	Mildmay
Martin Metals	R.R. 2, Waterloo
McKee Bros. Ltd.	Elmra
Massey Ferguson Ltd.	915 King St. W., Toronto 3
Massey Ferguson Ltd.	Woodstock
Massey Ferguson Ltd.	Brantford
Massey Ferguson (Brantford) Ltd.	Brantford
National Ideal Co., The	290 Hamilton Rd., New Hamburg
Prometals Limited	Dutton
Rittenhouse, M.K. & Sons Limited	Jordan Station
Sedore, Ernest & Son	Mount Albert
Smith Bros. (Camden)	Thamesville
Snyder, G.H.	Copetown
South Shore Mfg. Co. Ltd.	West Lorne
Tomen Manufacturing Ltd.	3 Wood St., Chatham
Turnco Ltd.	201 Marlborough St., Blenheim
White Geo. & Sons Co. Ltd.	Cabell St., London
Manitoba:	
Agristeel Fabricators Ltd.	214 Main St., Minnedosa
Canadian Co-operative Implements Ltd.	601 Bowman Ave., East Kilowan
Cancade Brothers Ltd.	Richmond Ave., Brandon
Forever Industries Limited	115 Robinson St., Winnipeg
Grainmaster Mfg. Ltd.	335 Tweed Ave., Winnipeg
Imperial Steel Products Ltd.	901 Madison St., St. James
Inland Steel & Forgings (1962) Ltd.	675 Washington Ave., Winnipeg
Jones, C. & J. Ltd.	235 Archibald St., St. Boniface
Killberry Industries Ltd.	616 Roseberry St., Winnipeg 21
Loewen Mfg. Co. Ltd.	Altona
Malco Mfg. Div. of Alco Equipment Ltd.	50 Panet St., St. Boniface
Markwill Industries Ltd.	2477 Day St., Winnipeg 25
Northern Equipment Limited	Portage La Prairie
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
Deegelman Industries Ltd.	Raymore
Doepker Industries Ltd.	Annahmeim
Flexi-Coil Land Packers Ltd.	Saskatoon

List of Establishments classified to this Industry, 1965 - Concluded

Name	Location
Saskatchewan—Concluded:	
Fibro Industries Ltd.	410 Quebec St., Regina
Ingham Industries Ltd.	Lanigan
Morris Rod Wedder Co. Ltd.	Yorkton
Nodge Manufacturing Co.	Swift Current
T & D Enterprises Ltd.	1025 Ave P.S., Saskatoon
Alberta:	
Diamond Manufacturing Co. Ltd.	Claresholm
Edbell Manufacturers Ltd.	351-11th Ave., S.W., Calgary
Edwards Rod Weeder Ltd.	3102-5th Ave., N., Lethbridge
Flexa-Hoppers Ltd.	Welling
Golden Arrow Manufacturing Ltd.	1439-17th Ave. S.E., Calgary
Hanna Manufacturing Ltd.	Hanna
Kitchner Machine Ltd.	Lethbridge
McCoy-Fenn Mfg. Ltd.	419-34th S.E., Calgary
Noble Cultivators Ltd.	Nobleford
Robin-Nodwell Mfg. Ltd.	Calgary
Rotary Plow Co. Ltd.	4515-6th St. N.E., Calgary
Success Automatic Land Levelier Co. Ltd.	Medicine Hat
Victory Equipment Ltd.	Lethbridge
British Columbia:	
A & S Manufacturing Ltd.	R.R. 1., Winfield
Okanagan Turbo Sprayers Ltd.	Penticton
Yeomans-Hauff Ltd.	Summerland

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 55 (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 135 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 reports reflect the complete implementation of these changes and enable comparisons to be made back to and including 1961. 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 DEB publication Catalogue No. 61-202, "Survey of Production".



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