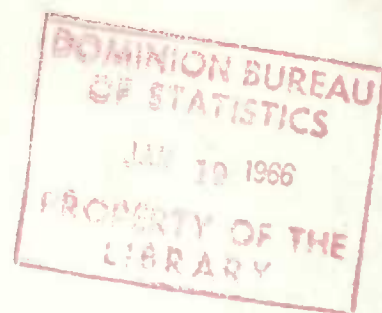


CATALOGUE No.

42-202

ANNUAL



AGRICULTURAL IMPLEMENT INDUSTRY

1963

ANNUAL CENSUS
OF MANUFACTURES

Published by Authority of
The Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS
Industry Division

January 1966
6521-818

Price: 50 cents

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AGRICULTURAL IMPLEMENT INDUSTRY

1963

Data presented in this report under the heading of Agricultural Implement Industry reflect implementation of the revised Standard Industrial Classification (S.I.C.) and the New Establishment Concept which are being used by the Dominion Bureau of Statistics in its compilation of industry statistics—see items “Standard Industrial Classification” and “Establishment” in the Explanatory Notes section of this report.

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.

SYMBOLS

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

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.
- amount too small to be expressed.
- ⒫ preliminary figures.
- Ⓡ revised figures.
- ⓧ confidential to meet secrecy requirements of the Statistics Act.

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

Year and province	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
No.		'000			'000				'000		'000		
1961													
Totals	67	6,986	14,309	31,072	1,878	74,095	138,981	61,173	17	55	10,058	46,316	61,775
1962													
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	18	74	—
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	10	282	611	849	60	1,321	4,212	2,970	x	x	376	1,322	2,968
Ontario	30	6,283	13,020	31,517	1,531	66,450	119,539	53,669	12	46	8,445	43,114	57,716
Manitoba	15	500	1,004	1,625	118	6,407	11,688	4,783	6	7	639	2,400	4,919
Saskatchewan	6	66	167	250	15	792	2,045	1,330	x	x	138	658	1,351
Alberta	7	200	379	638	104	1,711	3,336	1,961	—	—	333	1,328	2,130
British Columbia	2												
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
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	985	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

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

Size group	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.	'000			\$'000			\$'000		\$'000			
1962													
Under \$10,000.....	4	2	2	4	4	7	28	14	2	6	4	7	15
\$ 10,000 to \$ 24,999.....	5	1	2	3	3	25	78	50	9	14	2	6	53
25,000 " 49,999.....	8	18	35	50	5	101	257	151	6	17	24	68	156
50,000 " 99,999.....	5	24	51	79	6	110	332	217	1	5	32	104	217
100,000 " 199,999.....	17	206	363	578	38	824	2,380	1,512	1	4	264	807	1,581
200,000 " 499,999.....	11	197	445	666	58	1,554	3,916	2,546	—	—	298	1,219	2,616
500,000 " 999,999.....	4	155	309	500	36	1,647	3,273	1,560	3	21	204	788	1,541
1,000,000 " 4,999,999.....	11	1,066	2,191	4,020	309	13,211	24,714	10,851	—	—	1,495	6,294	11,912
5,000,000 and over.....	5	5,662	11,785	28,979	1,368	59,201	105,862	47,813	—	—	7,454	38,782	50,995
Head offices, sales offices and auxiliary units.....	..	..	..	..	..	..	..	..	..	..	172	823	..
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													
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

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

Size group	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.	'000			\$'000			\$'000		\$'000			
1962													
Under \$10,000.....	7	2	2	4	6	19	68	40	9	15	4	7	40
\$ 10,000 to \$ 24,999.....	9	18	34	50	5	94	247	147	8	22	23	67	155
25,000 " 49,999.....	5	21	44	69	5	100	282	178	1	5	29	92	178
50,000 " 99,999.....	16	171	324	506	33	816	2,144	1,289	1	4	224	726	1,358
100,000 " 199,999.....	7	106	228	314	24	703	1,723	996	—	—	139	517	1,002
200,000 " 499,999.....	11	339	663	1,091	91	3,188	7,064	3,872	3	21	471	1,811	3,931
500,000 " 999,999.....	5	372	722	1,218	136	5,947	9,592	3,300	—	—	474	1,803	3,480
1,000,000 " 4,999,999.....	7	1,179	2,506	5,374	318	16,936	31,657	13,554	—	—	1,869	9,004	17,681
5,000,000 and over.....	3	5,123	10,658	26,253	1,209	48,877	88,042	41,339	—	—	6,544	34,047	41,261
Head offices, sales offices and auxiliary units.....	..	..	..	..	..	..	..	..	..	..	172	823	..
Totals.....	70	7,331	15,182	34,878	1,828	76,680	140,820	64,713	22	66	9,949	48,896	69,085
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

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

Size group	Estab-lish-ments	Manufacturing activity						Total activity					
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
No.	'000				'000			'000		'000			
1962													
Under \$10,000.....	7	2	2	4	6	19	68	40	9	15	4	7	40
\$ 10,000 to \$ 24,999.....	9	18	34	50	5	94	247	147	8	22	23	67	155
25,000 " 49,999.....	5	21	44	69	5	100	282	178	1	5	29	92	178
50,000 " 99,999.....	14	124	234	381	29	741	1,890	1,112	1	4	171	567	1,144
100,000 " 199,999.....	9	153	318	440	28	778	1,977	1,173	—	—	192	676	1,216
200,000 " 499,999.....	11	393	765	1,250	100	4,040	8,174	3,887	3	21	546	2,089	3,906
500,000 " 999,999.....	5	318	620	1,058	127	5,096	8,482	3,284	—	—	399	1,524	3,505
1,000,000 " 4,999,999.....	6	887	1,898	4,016	231	9,846	21,318	11,545	—	—	1,296	6,289	12,431
5,000,000 and over.....	4	5,415	11,266	27,611	1,296	55,968	98,382	43,347	—	—	7,117	36,783	46,510
Head offices, sales offices and auxiliary units.....	..	..	..	..	..	..	..	..	..	..	172	823	..
Totals	70	7,331	15,182	34,878	1,828	76,680	140,820	64,713	22	66	9,949	48,896	69,085
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	1,646
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	18,354	44,054	2,090	97,426	182,767	87,276	21	82	11,160	58,380	100,031

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

Size group	Estab-lish-ments	Manufacturing activity						Total activity					
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
No.	'000				'000				'000		'000		
1962													
Under 5 employed.....	15	13	28	38	12	115	318	190	16	34	19	52	193
5- 14 employed.....	19	119	249	414	28	760	2,108	1,330	3	11	163	602	1,357
15- 49 ".....	17	341	666	981	84	2,251	5,311	3,263	3	21	469	1,615	3,378
50- 99 ".....	7	344	711	1,206	67	5,611	10,377	4,263	—	—	438	1,810	4,319
100-199 ".....	6	650	1,316	2,306	228	6,966	12,703	5,647	—	—	802	3,137	5,773
200-499 ".....	2	449	947	2,323	113	5,009	11,620	6,674	—	—	769	4,094	7,555
500 employed and over.....	4	5,415	11,266	27,611	1,296	55,968	98,382	43,347	—	—	7,117	36,783	46,510
Head offices, sales offices and auxiliary units.....	..	..	..	..	..	..	..	..	..	..	172	823	..
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													
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	18,354	44,054	2,090	97,426	182,767	87,276	21	82	11,160	58,380	100,031

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

Type of organization	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000			\$'000			\$'000	
1962													
Individual ownerships	7	18	40	57	8	125	295	162	7	23	18	57	162
Partnerships	6	29	51	65	12	532	866	362	15	44	31	70	366
Incorporated companies	57	7,284	15,091	34,757	1,808	76,023	139,659	64,190	—	—	9,728	47,946	68,558
Cooperatives													
Head offices, sales offices and auxiliary units											172	823	
Totals	70	7,331	15,182	34,879	1,828	78,680	140,820	64,713	22	66	9,949	48,896	69,085
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	18,247	43,877	2,075	96,783	181,205	86,351	—	—	10,899	57,060	99,106
Cooperatives													
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

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

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1962	1963	1962	1963	1962	1963
\$'000						
Output						
1. Shipments and other revenue	140,820	182,767	18,575	27,537	159,395	210,304
Inventories—Goods of own manufacture:						
Add closing—Goods in process	23,465	24,294	...	...	23,465	24,294
Finished goods	8,784	12,699	...	...	8,784	12,699
Less opening—Goods in process	20,186	23,446	...	...	20,186	23,446
Finished goods	9,660	9,523	...	...	9,660	9,523
2. Net inventory change	2,403	4,024	...	...	2,403	4,024
3. Gross output (1 + 2)	143,223	186,791	18,575	27,537	161,798	214,328
Input						
4. Purchases of goods not of own manufacture .....	...	...	12,828	17,883	12,828	17,883
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	7,162	6,445	7,162	6,445
Less closing .....	...	...	6,159	10,285	6,159	10,285
5. Costs of goods sold (not of own manufacture) .....	...	...	13,831	14,043	13,831	14,043
6. Materials, supplies, components and semi-processed goods	76,680	97,426	371	739	77,051	98,165
7. Fuel and electricity	1,828	2,090	...	...	1,828	2,090
8. Gross input (5 + 6 + 7)	78,508	99,516	14,202	14,782	92,710	114,298
Census value added (3-8)	64,713	87,276	4,373	11,257	69,085	100,031

TABLE 3. Employment and Payroll, 1962 and 1963

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis-trative and office		Sales and distribution		Total employees		Production and related workers		Adminis-trative and office	Sales and distribution	Total salaries and wages
	Manufacturing		Other		Male	Female	Male	Female	Male	Female	Manufacturing	Other			
	Male	Female	Male	Female											
	number										\$'000				
1962															
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	14	4	14	4	—	—	—	74	74
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	277	5	1	—	48	13	32	—	358	18	849	3	218	252	1,322
Ontario	6,236	47	—	—	1,556	324	240	42	8,032	413	31,517	—	10,221	1,376	43,114
Manitoba	496	4	—	—	63	26	40	10	599	40	1,625	—	539	236	2,400
Saskatchewan	66	—	—	—	6	4	52	10	124	14	250	—	75	333	658
Alberta	198	2	—	—	44	12	65	12	307	26	638	—	297	393	1,329
British Columbia															
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	7,273	58	1	—	1,717	379	443	78	9,434	515	34,879	3	11,350	2,664	48,896
1963															
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick	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	8,948	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 Territories	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	8,557	66	50	—	1,613	357	435	82	10,655	505	44,054	248	11,274	2,904	58,380

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

Month	Establishments reporting monthly detail			
	1962		1963	
	Male	Female	Male	Female
	number			
January	6,707	87	8,014	87
February	6,936	61	8,570	65
March	7,206	60	8,653	63
April	7,284	56	8,670	85
May	7,210	57	8,472	69
June	6,817	60	8,616	69
July	6,473	50	8,843	64
August	5,897	47	8,316	57
September	6,181	51	8,159	59
October	6,917	54	7,570	56
November	7,459	60	7,638	58
December	7,977	66	8,008	65
Average for establishments reporting monthly detail (collected only for large establishments)	6,999	57	8,294	62
Average for small establishments (only annual averages collected)	274	1	263	4
Average for all establishments	7,273	58	8,557	66

TABLE 4. Industry Inventories, 1963

Province	Manufacturing				Non-manufacturing	Total inventories
	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total manufacturing	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—
New Brunswick	—	—	x	x	—	x
Quebec	293	333	529	1,155	—	1,155
Ontario	7,860	21,827	7,105	36,792	6,190	42,982
Manitoba	1,042	914	1,097	3,053	40	3,093
Saskatchewan	28	137	101	265	—	265
Alberta	455	234	647	1,337	216	1,552
British Columbia	—	—	x	x	—	x
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	9,677	23,446	9,523	42,646	6,446	49,091
Closing:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—
New Brunswick	—	—	x	x	—	x
Quebec	276	492	544	1,312	—	1,312
Ontario	10,981	22,532	9,329	42,842	9,971	52,813
Manitoba	1,281	978	1,406	3,665	45	3,710
Saskatchewan	54	42	454	550	—	550
Alberta	480	250	925	1,655	270	1,925
British Columbia	—	—	35	35	—	35
Yukon and Northwest Territories	—	—	x	x	—	x
Totals	13,071	24,294	12,699	50,064	10,286	60,350

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

Description	1962		1963		
	Quantity	Cost \$'000	Quantity	Cost \$'000	
1. Large establishments which reported commodity detail:					
Bituminous coal:					
(a) From Canadian mines	ton	718	9	724	8
(b) Imported	"	26,694	271	28,449	288
Sub-bituminous coal (from Alberta mines only)	"	—	—	—	—
Anthracite coal	"	200	3	219	3
Lignite coal	"	194	2	185	2
Coke	"	441	13	603	21
Gasoline (including gasoline used in cars and trucks) ..	Imp. gal.	369,178	129	440,282	146
Fuel oil including kerosene or coal oil	"	2,501,128	319	4,102,097	390
Wood	cord	72	1	110	2
Gas:					
(a) Liquefied petroleum gases	Imp. gal.	2,868	1	7,943	2
(b) Other manufactured gas	M cu. ft.	—	—	—	—
(c) Natural gas	"	404,462	251	414,971	315
Other fuel .....	...	...	1	...	...
Electricity purchased	kwh.	69,985,921	710	84,294,498	782
Steam purchased .....	...	...	54	...	42
2. Estimate for small establishments:					
Fuel and electricity .....	...	...	64	...	69
3. All establishments:					
Total fuel and electricity used .....	...	...	1,828	...	2,690

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

Description	1962		1963		
	Quantity	Cost \$'000	Quantity	Cost \$'000	
1. Materials used:					
Iron:					
Pig iron, all grades	ton	6,667	413	6,977	431
Castings (rough and semi-finished received from foundry):					
Iron (gray and malleable).....	"	11,881	4,036	18,474	5,720
Steel	"	2,190	865	2,215	829
Steel, hot or cold rolled (except special alloy steel):					
Bars	"	44,473	8,213	56,822	9,783
Plates.....	"	7,088	1,119	10,001	1,426
Sheets, plain	"	41,786	5,840	52,770	7,215
Sheets, galvanized	"	3,429	628	3,462	621
Strip	"	4,542	785	6,753	1,110
Structural shapes (angles, channels, etc.)	"	11,731	1,771	11,028	1,680
Wire	"	364	59	523	104
Scrap iron and steel of all kinds	"	3,546	138	...	154
Pipe, tubing and fittings of iron and steel .....		...	2,264	...	3,101
Other iron and steel (except finished parts).....		...	392	...	1,213
Alloy steel:					
Carbon and alloy tool steels, including high-speed .....		...	70	...	4
Stainless steels .....		...	368	...	358
Other alloy steels.....		...	874	...	863
Ferro-alloys .....		...	25	...	24
Non-ferrous metals (all forms, including scrap):					
Aluminum:					
Castings.....	pound	133,319	112	192,113	145
Sheet.....	"	141,615	70	144,618	89
Other forms	"	47,628	36	49,730	36
Brass and bronze	"	189,327	76	75,004	56
Lead	"	9,324	1	7,124	2
Zinc	"	218,771	33	355,342	54
Babbitt metals and solder	"	1,933	1	230	--
Other non-ferrous metals .....		...	13	--	--
Other materials and supplies:					
Paints, oils and varnishes .....		...	790	...	1,064
Foundry coke (used in cupola, not for heat or power)	ton	2,062	77	2,338	85
Foundry sands.....	"	3,177	31	3,133	31
Lumber	M ft. b.m.	1,611	157	2,316	246
Fireclay	ton	397	10	450	11
Cupola blocks and firebrick .....		...	37	...	50
Core oil	Imp. gal.	9,992	8	9,270	7
All other materials and components used ¹ .....		...	43,017	...	55,468
2. Containers and other packaging materials and supplies used.....		...	833	...	542
3. Operating, maintenance and repair supplies used (excluding fuel) .....		...	3,241	...	3,851
4. Amount paid out to others for work done on materials owned by establishments .....		...	478	...	1,052
Totals.....		...	76,680	...	97,426

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$1,386,920 in 1962 and \$2,851,158, in 1963.

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

Description	1962		1963	
	Quantity	Value	Quantity	Value
	number	\$'000	number	\$'000
I. 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	1,581	432	3,895	1,002
→ Manure spreaders .....	...	1	...	1
All other planting, seeding and fertilizing machines .....	...	9,666	...	11,194
Plows:				
Mouldboard plows - Tractor-drawn or tractor-mounted.....	...	2	...	2
Disc plows - Tractor-drawn .....	...	2	...	2
Harrow-plows, one-way discs, tiller-combines	3,913	2,801	...	2
All other plows	18,953	3,578	28,790	9,917
Tilling, cultivating and weeding machines:				
Harrowes:				
Drag (sections)	29,748	311	48,208	504
Spring-tooth (sections).....	3,849	167	6,306	299
Disc - Tractor-drawn or mounted	8,377	2,188	8,721	2,158
Soil packers	5,291	343	7,217	492
Field cultivators:				
Tractor-drawn	5,597	2,137	9,600	3,739
Tractor-mounted	1,495	517	...	1
Rod weeders	7,195	1,825	5,881	2,193
Other tilling, cultivating and weeding machines .....	...	1,767	...	2,435
Haying machinery:				
Mowers, tractor-drawn or mounted	22,035	5,683	25,150	6,711
Side rakes and tedders.....	...	...	...	...
All other haying machinery (including hay balers, hay carriers, etc.) .....	...	12,298	...	14,217
Harvesting machinery:				
Combine reaper-threshers and stationary threshers .....	...	5	...	5
Swathers and windrowers	6,141	8,786	11,257	15,023
Potato diggers - Horse or tractor-drawn	336	159	237	124
All other harvesting machines (including headers, push harvesters) .....	...	2,703	...	3,132
Machines for preparing crops for market or use:				
Grain grinders	2,517	172	1,784	145
Fanning mills or grain cleaners	625	307	513	370
Hammertmills	181	50	308	60
Grain loaders and elevators	2,702	605	7,903	1,183
All other machines for preparing crops for market or use.....	...	354	...	612
Spraying and dusting equipment:				
All types (including attachments) .....	...	1,354	...	2,042
Farm wagons, trucks and sleighs:				
Wagon boxes .....	...	6	...	6
Wagon gears (standard)	6,037	894	19,486	3,063
Forage boxes .....	...	...	...	...
All other farm wagons, sleighs and trucks .....	...	435	...	797
Dairy machinery and equipment, including cream separators, milking machines, etc.				
...	...	5	...	5
Miscellaneous farm implements and machinery				
...	...	39,036	...	50,913
Parts and accessories for farm implements and machinery				
...	...	13,760	...	16,974
Total farm machinery and parts .....	...	112,328	...	149,309
All other products .....	...	27,869	...	33,558
2. Amount received in payment for work done on materials and products owned by others				
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....	...	718	...	71
Net adjustment for establishments receiving progress payments .....	...	(92)	...	(171)
Net adjustment for establishments receiving progress payments .....	...	-	...	-
Total adjusted value of shipments and work done .....	...	140,820	...	182,767

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 farm wagons".

TABLE 8. Shipments of Selected Goods of Own Manufacture - All Industries, 1954-63
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

A. Plows

Year	Number	Value \$'000	Year	Number	Value \$'000
1954	15,443	2,979	1959	21,640	4,178
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

B. Mowers

Year	Number	Value \$'000	Year	Number	Value \$'000
1954	7,006	1,389	1959	30,605	7,008
1955	19,579	4,988	1960	25,682	5,905
1956	14,739	3,497	1961	18,683	3,667
1957	12,225	3,003	1962	22,035	5,683
1958	17,028	4,215	1963	25,150	6,711

C. Harrows

Year	Number	Value \$'000	Year	Number	Value \$'000
1954	65,365	2,676	1959	50,031	5,628
1955	50,352	3,056	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

D. Threshers and Reaper-threshers

Year	Number	Value \$'000	Year	Number	Value \$'000
1954	12,891	37,433	1959	18,134	51,074
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

E. Seed Drills

Year	Number	Value \$'000	Year	Number	Value \$'000
1954	3,848	1,617	1959	1,255	637
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

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

Year	Number	Value \$'000	Year	Number	Value \$'000
1954	8,006	4,048	1959	3,996	2,729
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

G. Cultivators

Year	Number	Value \$'000	Year	Number	Value \$'000
1954	9,649	2,566	1959	21,394	6,637
1955	12,670	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

TABLE 8. Shipments of Selected Goods of Own Manufacture - All Industries, 1954-63 - Concluded
H. Weeders and Corn Planters

Year	Weeders		Corn planters	
	Number	Value	Number	Value
		\$'000		\$'000
1954	2,216	607	1,201	164
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

I. Hay Loaders and Hay Rakes

Year	Hay Loaders		Hay rakes, including combination side rakes and tedders	
	Number	Value	Number	Value
		\$'000		\$'000
1954	1,674	398	7,773	1,790
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	4,872
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

J. Manure Spreaders

Year	Number	Value	Year	Number	Value
		\$'000			\$'000
1954	6,024	2,148	1959	5,502	2,591
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	4,165	1,646	1963	x	x

K. Factory Shipments of Agricultural Implements and Parts

Year	Factory shipments
	\$'000
1954	113,089
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

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

List of Establishments classified to This Industry, 1963

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

Name	Location
New Brunswick:	
Thomas Bros.	Centreville
Quebec:	
Desjardins Limitée	St-André-de-Kamouraska
Dion Frères Inc.	Ste-Thérèse-de-Blainville
Iberville Mach'y. Co. Ltd.	R.R. 2, St-Edouard
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:	
Baertsoen, Frank, & Sons	R.R. # 5, Aymer West
Balthe's Farm Equipment Mfg. Ltd.	R.R. 2, Port Burwell
Blenheim Manufacturing Ltd.	Blenheim
Canadian Farm Machinery	Oak Ridges
Canadian Potato Machinery Co., Ltd.	Galt
Cockshutt Farm Equipment of Canada Ltd.	Brantford
Deere, John, Welland Works of John Deere Limited	Welland
DeLaval Company Limited	Peterborough
Delhi Foundry & Farm Machinery Limited	Delhi
Douglas, Brown & Campbell Ltd.	Melbourne
Eagle Tle Machine Co.	Adelaide & Princess St., London
Ebersol Farm Equipment Co. Limited	Milverton
Enright Metal Products	Preston
Ernst Bros. Company Limited	Mount Forest
Fleury-Bissell Implements Limited	Elora
Gray-Snyder Limited	Heidelberg
Harris Manufacturing	Jarvis
Incor Farm Equipment	Clifford
International Harvester Co. of Canada Ltd.	Sherman Ave., Hamilton
Jackson's Manufacturing & Machinery Ltd.	Tilsonburg
Lobsinger Bros. Ltd.	Mildmay
Martin Metals	R.R. # 2, Waterloo
McKee Bros. Ltd.	Elmira
Massey Ferguson Ltd.	Toronto 3
Massey Ferguson Ltd.	Woodstock
Massey Ferguson Ltd.	Brantford
Prometals Limited	Dutton
Rittenhouse, M.K., & Sons, Limited	Jordan Station
Sedore, Ernest, & Son	Mount Albert
Smith Brothers (Camden)	R.R. No. 1, Thamesville
Snyder, G.H.	Copetown
South Shore Mfg. Co. Ltd.	West Lorne
Tac-Lite Limited	Galt
Tomen Manufacturing Ltd.	3 Wood St., Chatham
Trohis Cooler Ltd.	Preston
White, Geo. & Sons Co. Ltd.	Cabell St., London
Manitoba:	
Canadian Co-operative Implements Ltd.	601 Bowman Ave., East Kildonan
Cascade Brothers Ltd.	Brandon
Forever Industries Limited	115 Robinson St., Winnipeg
Hart Emerson Simon Ltd., The	1425 Whyte Ave., Winnipeg
Hydraulic Engineering Co.	1260 Clarence Ave., Winnipeg
Imperial Steel Products Ltd.	901 Madison St., St. James
Inland Steel & Forgings (1962) Ltd.	675 Washington Ave., Winnipeg
Jones, C. & J.	130 Portage Ave. E., Winnipeg
Killbery Industries Ltd.	631 Ferry Rd., St. James
Malmgren Mfg. (1962) Ltd.	753 Marlon St., St. Boniface
Midland of Canada	642 Notre Dame Ave., Winnipeg
Min-Toba Industries Ltd.	Minnedosa
Northern Equipment Limited	Portage La Prairie
Plett's Industries	Rosenort
Standard Gas Engine Works Limited	Morden
Saskatchewan:	
Brandt Electric Machine & Mfg. Ltd.	1101 Winnipeg St., Regina
Brown Industries	Drinkwater
Bussiere, R. & Sons Rockomatic Ltd.	Vonda
Doopker Industries Ltd.	Annaham
Flexi-coil Land Packers Limited	Saskatoon
Ingham Industries Ltd.	Lanigan
Morris Rod Weeder Co. Ltd.	Yorkton
Nodge Manufacturing Co.	Swift Current
Premier Manufacturing Ltd.	1605 St. John St., Regina

List of Establishments classified to This Industry, 1963 - Concluded

Name	Location
Alberta:	
Diamond Manufacturing Co. Ltd.	4515 6A st. N.E., Calgary
Golden Arrow Manufacturing Ltd.	1439 - 17th Ave., S.E., Calgary
Hanna Manufacturing Ltd.	Hanna
Kirchner Machine Ltd.	Lethbridge
McCoy-Fenn Manufacturers & Fabricators Ltd.	419 - 34th Ave. S.E., Calgary
Noble Cultivators Ltd.	Nobleford
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 58 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 178 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

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

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

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

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

Establishment

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

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

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

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

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

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

Head Offices and Auxiliary Units

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

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

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

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

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

Employees

(a) Production and related workers – Manufacturing activity

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

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

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

(c) Administrative and office employees

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

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

(d) Sales and distribution workers

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

(e) Total Employees

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

Working Owners or Partners

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

Salaries and Wages

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

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

Fuel and Electricity

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

Materials and Supplies

(a) Manufacturing activities

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

(b) Non-manufacturing activities

1. Purchases for re-sale as such

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

2. Other materials and supplies used

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

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

Shipments

(a) General

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

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

(b) Shipments of goods of own manufacture

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

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

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

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

(c) Shipments of goods not of own manufacture

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

(d) Other revenue

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

Inventories

(a) Manufacturing activities

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

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

(b) Non-manufacturing activities

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

Value Added

(a) By manufacturing activities

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

(b) By non-manufacturing activities

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

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

(c) By Total activities

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



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