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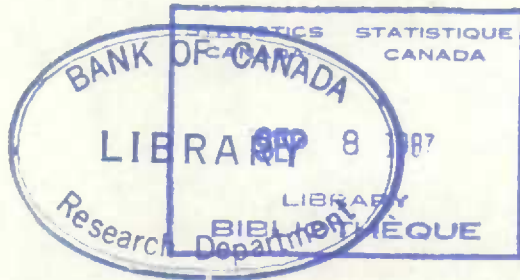


AGRICULTURAL IMPLEMENT INDUSTRY

1960

Formerly The Agricultural Implements Industry

ANNUAL CENSUS
OF MANUFACTURES



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SYMBOLS

The interpretation of the symbols used in the tables throughout this publication is as follows:

... figures not appropriate or not applicable.

— nil or zero.



EXPLANATORY NOTES

This report is one in a series of about 140 publications which present the results of the 1960 Census of Manufactures. Most reports in this series refer to specific industries, but there are summary reports for Canada and the provinces and for major industry groups. Adoption of the revised Standard Industrial Classification for 1960 compilations has necessitated changes in titles of many reports in this annual series. The content of many industries has also been affected (see following note on Industrial Classification).

Industry statistics given in these reports refer to number of establishments, employees, salaries and wages, cost of materials, supplies, fuel and electricity, gross value of shipments, inventories and value added by manufacturing. Details of materials used and products shipped are also given. Descriptions of the principal industry statistics, with special reference to 1960 are as follows:

Period Covered

Firms are asked to submit figures for the calendar year, if at all possible, and most reports are on this basis. Financial year reports for periods differing from the calendar year are accepted in instances where the firms find it impossible to supply calendar year data from accounting records. However the data on employees, salaries and wages are requested on a calendar year basis in all cases.

Establishment

Data for the annual census is collected on an establishment basis. A firm with more than one plant is required to file a report for each plant. In most cases an establishment is a complete factory; sometimes, however, a plant is divided into two or more establishments when it carries out operations classifiable to different industries and when separate accounting records are available. Usually the statistics for an establishment relate only to the manufacturing activities. Other activities such as construction at the plant by its own employees, wholesale or retail activities carried on at the plant location, etc., are not included. Plants engaged solely in repair work (except in the case of furniture, shipbuilding, boat building, aircraft and railway rolling stock industries) are not included but plants occupied in assembling parts into complete units are included.

Employees

Administrative and office employees include all executives and supervisory officials such as presidents, vice-presidents, secretaries, treasurers, etc., together with managers, professional and technical employees, superintendents and factory supervisors above the working foremen level, and clerical employees. Working owners and partners are also included in this category.

Production and related workers include all other factory workmen whether paid on a monthly, weekly, hourly or piece-work basis. Working foremen doing work similar to that of the employees they supervise are included, as are maintenance, ware-

housing and delivery staffs. Employees on new construction work, in retail or wholesale operations, on outside piece work etc. are not included.

Production workers are reported by months, an average for the year being obtained by summing the monthly figures and dividing by twelve. This procedure is followed even though the plant did not operate in all months. Figures on employment refer to calendar years whether or not some establishments reported other data on a financial year basis.

Salaries and Wages

Salaries and wages refer to gross earnings of the employees described above, including salaries, wages, commissions, bonuses, the value of room and board where provided, deductions for income tax and social services such as sickness and unemployment insurance, pensions, etc., as well as any other allowances forming part of the employees' wages. Payments for overtime are included.

Salaries refer to amounts paid to administrative and office employees. Withdrawals by working owners or partners for normal living expenses for self and family are included but not their withdrawals for income tax. Wages refer to the amounts paid to production and related workers as defined above. Data on earnings refer to the calendar year whether or not some establishments reported other data on a financial year basis.

Cost of Fuel and Electricity

Figures for fuel refer to amounts actually used, (including fuel used in cars and trucks), not to purchases unless the quantities are the same. Values refer to the laid-down cost at the works, including freight, duty, etc.

Materials and Supplies Used

Figures represent quantities and laid-down cost values, at the works, of materials and supplies actually used during the year whether purchased from others or received as transfers from other plants of the reporting company. Amounts paid to other manufacturers for work done on materials owned by the reporting company are included. Returnable containers or any other items charged to capital account are not included. Fuels are not included. Goods bought from others or received as transfers from other plants or reporting companies for resale without further processing are not included. Maintenance and repair supplies not chargeable to capital account are included.

Factory Shipments

Factory shipments refer to shipments of goods made from own materials either in the reporting plant or by other manufacturers on the basis of a charge to the reporting plant for work done. All products and by-products shipped from the establishment are included whether for domestic use, export, or for government departments. Transfer shipments to sales outlets, distributing warehouses or to other manufacturing units of the reporting firm are included. Goods bought or received as transfers

and resold without further processing are not included. Values are computed on f.o.b. plant or plant warehouse basis, and do not include sales tax or excise duties. Values of containers not returnable are included. Amounts received in payment for work done on materials owned by others are included.

In a few industries such as shipbuilding, aircraft, etc., where work on principal products extend over a relatively long period, the value of production is recorded rather than the value of shipments. For those industries production is computed from the value of deliveries of complete units during the year plus the value of work done during the year on unfinished units less the value of work done in previous years on finished units delivered in the year under review.

Inventories

Values represent the book values of manufacturing inventories owned and held at the reporting plant. Figures include inventories held in warehouses or selling outlets which have been included with plant operations for purposes of reporting shipments.

Value added by Manufacturing

Figures are computed from value of shipments plus or minus changes in inventories of finished goods and goods in process less cost of materials, fuel and electricity. This figure is sometimes referred to as net production.¹

Standard Industrial Classification

The revised Standard Industrial Classification which has been introduced with the 1960 Census of Manufactures provides for a breakdown of the universe into 140 industries arranged in 20 major groups compared with 135 industries in 17 major groups in the old classification which was used in the compilations for the years 1949 to 1959 inclusive. It incorporates changes considered desirable on the basis of experience in using the earlier classification as well as those which take account of changes in the structure of Canadian industries associated with the rapid developments of the past decade. Full details are contained in the Standard Industrial Classification Manual, Catalogue No. 12-501, which is available from either the Queen's Printer or the Dominion Bureau of Statistics. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

Many industries remain unchanged in the new classification but in many instances there have been substantial changes in content because of the shifting of establishments from one industry to another or in re-grouping of establishments. Where

¹ To arrive at the National Accounts concept of "gross domestic product at factor cost", it would be necessary to subtract also the cost of office supplies used, advertising, insurance and other goods and services obtained from other businesses. Data on these inputs are not collected on the annual Census of Manufactures. Value added figures for "The primary industries and construction" are published in D.B.S. publication 61-202, *Survey of Production*.

changes have occurred the principal statistics for 1957, 1958 and 1959 have been re-compiled to provide data on a basis comparable with those for 1960.

Short Forms

Between 1949 and 1957, in an effort to ease the reporting burden for smaller firms, a short form was used asking for the total value of shipments only or, in a few cases where losses of detail were significant, for quantities and values of principal products. For purposes of publication, missing data were estimated on the basis of appropriate ratios. In general the cut-off point for these short forms was set at \$50,000 value of shipments. About 40% of the total number of establishments reported on the short form and accounted for less than 3 per cent of the total value of shipments.

In 1958, in order to establish a new base year, the small firms were asked to report all items of principal statistics together with some detail on materials and products.

For the 1959 Census, the short form was used again, but further steps were taken to ease the respondents' burden. First, the general limit for short forms was raised to \$100,000 value of shipments. In addition, a new intermediate form was developed. This form is a shortened version of the long form in that most of the general questions were pared down and the detailed lists of materials and products were limited to the more important items. The general limits for firms in this category were set at between \$100,000-\$500,000 value of shipments, but in the case of both the short and intermediate forms there were lower cut-offs for a number of industries in which the smaller firms accounted for a larger share of total shipments. On the other hand, limits were raised where this could be done without a significant loss of coverage. On most of the short forms for 1959, in addition to total value of shipments, data on principal products were requested. In a few industries, where loss of employment and earnings data were considered too large because of higher cut-offs, a question on total payroll was placed on the short form. This practice was followed again in 1960.

The intermediate and long forms provide complete data for the compilation of all elements of principal industry statistics and the details of materials and products. The one-page short form, although containing data on principal products and total value of shipments, does not request information on other elements of principal statistics such as value of inventories, materials, fuel and electricity and, in most cases, employment and salaries and wages, nor does it contain detailed data on volume and value of materials used. For purposes of compiling aggregates of principal statistics by industry and by geographic location, the missing data for each establishment were estimated for 1959 by using, in general, ratios based on the change in the value of shipments between 1958 and 1959. The proportion of the estimated data was generally less than 5 per cent of the total in each category of principal statistics.

AGRICULTURAL IMPLEMENT INDUSTRY 1960

Data presented in this report under the heading of Agricultural Implement Industry reflect implementation of the revised Standard Industrial Classification (SIC) which is being used by the Dominion Bureau of Statistics in its compilation of 1960 industry statistics—see item "Standard Industrial Classification" in the Explanatory Notes section of this report. For statistical purposes the industry titled Agricultural Implement Industry in the revised Standard Industrial Classification 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.

In many instances, adoption of the revised Standard Industrial Classification effected a radical shifting of manufacturing establishments as between industry groupings. However, in the case of establishments engaged in manufacturing agricultural implements, changes brought about by the implementation of the revised Standard Industrial Classification were minimal and were the result of a few firms, actually making agricultural implements as a secondary line, being transferred to other industries. The effect of these changes is indicated in the comparative series given in Tables 1A and 1B. Table 1A shows data for these establishments

according to the "old" concept while Table 1B carries figures re-compiled on the "new" or revised Standard Industrial Classification basis.

Factory shipments reported by establishments which have been classified to the Agricultural Implement Industry were valued at \$152,126,862 in 1960. The output of farm equipment in this industry amounted to \$136,599,089; the remainder of the output of the industry was made up of miscellaneous types of machinery and parts. In other industries there was a small production of farm machinery amounting to \$4,095,911.

There were 69 establishments classified to the Agricultural Implement Industry in 1960, there being 11 in Quebec, 27 in Ontario, 14 in Manitoba, 7 in Saskatchewan, 7 in Alberta and 3 in British Columbia. The Ontario establishments accounted for 90% of the total output.

The industry employed a total of 10,929 workers during the year, the 3,050 salaried employees being paid \$17,603,937 and the 7,879 wage earners, \$35,171,512.

Note: Due to lack of inventory data, figures for value added by manufacture prior to 1954 were obtained by subtracting the cost of materials used, including fuel and electricity, from the total value of factory shipments. In 1954 and 1955 the "Value added" adjustment incorporated the increase or decrease to shipments values resulting from changes in the value of inventories over the period. For these two years, the adjustments that were made used only the change in finished product inventory owned by manufacturers. Beginning with 1956 the calculation of the "Value added" figure was further adjusted to take into account the "Goods in process" as well as the finished goods held at plant or plant warehouse.

TABLE 1A. Principal Statistics of the Agricultural Implements Industry, Significant Years, 1929 - 59
Basis: Standard Industrial Classification in use prior to 1960.

Year and province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at plant	Cost at plant of materials used	Value added by manufacture ¹	Gross selling value of products ¹
	number		dollars				
1929	62	11,408	14,775,889	799,634	19,016,981	20,842,864	40,659,479
1933	40	3,039	3,047,501	283,748	2,215,031	2,827,637	5,326,416
1937	37	6,446	7,350,043	567,240	9,319,032	9,075,122	18,961,394
1939	36	5,306	6,024,720	449,158	6,672,529	8,913,536	16,035,223
1944	39	14,053	25,469,083	1,086,700	25,165,749	34,846,344	61,098,793
1946	51	13,866	25,475,108	1,162,059	32,852,259	29,224,224	63,238,542
1949	79	17,074	44,219,589	2,092,645	95,685,026	79,192,512	176,970,283
1955	77	11,753	41,929,040	1,749,126	59,283,305	54,464,347	113,923,309
1956	71	9,838	36,703,578	1,872,226	64,786,280	51,474,339	122,681,025
1957	70	10,271	39,278,116	1,813,015	59,855,771	58,174,333	122,528,538
1958	71	11,011	47,344,429	1,959,417	77,274,314	60,536,739	133,145,309
1959	71	13,579	61,741,134	2,471,815	101,278,108	78,006,598	170,742,821

¹ See note to text.

TABLE 1 B. Principal Statistics, Agricultural Implement Industry¹ by Provinces, 1957-1960

Basis: Standard Industrial Classification revised 1960

	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at plant	Cost at plant of materials used	Value added by manufacture ²	Selling value of factory shipments
	number						
							dollars
1957							
Quebec	8	249	733,987	34,976	790,321		2,001,378
Ontario	22	8,797	34,589,324	1,547,661	52,674,591		106,650,586
Manitoba	15	466	1,613,066	87,110	4,120,562		7,521,242
Saskatchewan	8	36	107,745	10,143	118,045		379,885
Alberta	8	168	615,292	38,217	658,623		1,523,673
British Columbia	3						
Canada	64	9,736	37,659,414	1,718,107	58,362,142		118,076,764
1958							
Quebec	7	293	795,530	49,041	812,759		2,401,193
Ontario	22	9,830	42,841,596	1,680,117	70,870,055		118,725,609
Manitoba	16	431	1,539,772	82,371	3,315,341		6,100,900
Saskatchewan	7	29	125,937	7,903	146,411		470,558
Alberta	8	152	530,247	37,010	628,250		1,503,505
British Columbia	3						
Canada	63	10,535	45,833,082	1,856,442	75,772,816		129,201,765
1959							
New Brunswick	1	331	911,855	64,011	874,449		2,803,120
Quebec	8						
Ontario	23	12,112	56,881,627	2,167,116	92,935,888		153,632,521
Manitoba	16	477	1,785,518	93,235	4,437,631		7,690,307
Saskatchewan	7	39	174,449	8,868	238,275		712,924
Alberta	7	103	352,204	35,681	725,307		1,358,391
British Columbia	2						
Canada	64	13,062	60,085,653	2,368,911	99,211,550		166,197,263
1960							
Quebec	11	265	855,434	45,945	736,679	1,936,541	2,727,834
Ontario	27	9,960	49,331,445	1,774,272	71,353,131	54,267,527	137,429,407
Manitoba	14	537	1,964,444	99,738	5,194,537	4,182,562	9,510,176
Saskatchewan	7	42	186,208	10,689	337,744	516,465	877,181
Alberta	7	114	401,195	36,384	768,251	819,805	1,491,705
British Columbia	3	11	36,723	3,945	42,952	50,392	90,559
Canada	69	10,929	52,775,449	1,972,973	78,433,294	61,773,292	152,126,862

¹ See note to text.² The changeover to the new classification has delayed the recompilation of "Value added" figures for these years and same will not be available until the next issue of this report.

Note: Profits or losses cannot be calculated from the above figures as data are not available for general expense items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.

TABLE 2. Inventories¹: Agricultural Implement Industry, 1960

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
Opening:				
Quebec	342,264	200,957	378,723	921,944
Ontario	11,858,046	29,294,252	8,668,513	49,820,811
Manitoba	914,094	1,250,063	609,780	2,773,917
Alberta	429,233	83,007	311,587	823,827
Other provinces	167,523	16,378	62,313	246,214
Canada	13,711,160	30,844,657	10,030,896	54,586,713
Closing:				
Quebec	335,576	228,093	342,918	906,587
Ontario	9,323,705	20,765,420	7,162,868	37,251,993
Manitoba	1,219,255	951,024	875,460	3,045,739
Alberta	418,513	119,123	410,206	947,842
Other provinces	173,664	13,393	59,745	246,802
Canada	11,470,713	22,077,053	8,851,197	42,398,963

¹ Book value of all manufacturing inventories owned and held at plant and plant warehouses.

TABLE 3. Factory Shipments: Agricultural Implement Industry, 1960

Product	Number	Value of factory shipments
		\$
Planting, seeding and fertilizing machinery:		
Corn planters—Horse and tractor-drawn and tractor-mounted	894	171,774
Transplanters	461	123,243
Grain and fertilizer drills (combination)	8,107	5,868,581
Grain drills—Plain and press	786	288,759
Seed boxes for harrow-plows, one-way discs and tiller-combines ..	3,832	939,881
Manure spreaders	5,119	2,688,206
Manure loaders	104	21,739
All other planting, seeding and fertilizing machines	—	138,148
Plows:		
Mouldboard plows—Tractor-drawn or tractor-mounted	14,066	1,727,113
Disc plows—Tractor-drawn	610	167,191
Harrow-plows, one-way discs, tiller-combines	5,861	3,549,446
All other plows	158	39,994
Tilling, cultivating and weeding machines:		
Harrows:		
Drag (sections)	34,555	453,026
Spring-tooth (sections)	3,621	211,213
Disc—Horse or tractor-drawn		
Under 12'	4,276	1,086,547
12' or over	975	541,777
Tandem tractor disc	2,766	1,071,119
Soil packers	4,824	345,111
Field cultivators:		
Horse and tractor-drawn	7,146	3,085,773
Tractor-mounted	4,721	1,293,374
Rod weeders	4,404	1,150,218
Blade weeders	576	266,976
Other tilling, cultivating and weeding machines .....	...	1,940,336
Haying machinery:		
Mowers, tractor-drawn or mounted	25,680	5,904,665
Hay loaders	25	15,883
Dump rakes	112	12,064
Side rakes and tedders	6,184	1,771,823
All other haying machinery (including hay balers, hay carriers, etc.)	—	9,995,318

TABLE 3. Factory Shipments: Agricultural Implement Industry, 1960 - Concluded

Product	Number	Value of factory shipments \$
Harvesting machinery:		
Combine reaper-threshers and stationary threshers	14, 123	41, 213, 029
Swathers and windrowers	5, 611	5, 668, 438
Pick-up attachments for combines	1, 255	372, 043
Potato diggers - horse or tractor-drawn	7	7, 125
All other harvesting machines (including headers, push harvesters, barge elevators, etc.) .....	...	1, 978, 580
Machines for preparing crops for market or use:		
Grain grinders	422	78, 809
Fanning mills or grain cleaners	777	308, 962
Hammermills	76	22, 401
Feed mixers	54	19, 738
Grain loaders and elevators	3, 816	829, 820
All other machines for preparing crops for market or use .....	...	208, 549
Spraying and dusting equipment:		
All types (including attachments)	-	1, 200, 984
Farm wagons, trucks and sleighs:		
Wagon boxes	621	147, 283
Wagon gears (standard)	1, 307	190, 575
Rubber-tired gears or trailers	1, 620	159, 926
Sleighs	228	13, 190
All other farm wagons, sleighs and trucks	-	71, 064
Dairy machinery and equipment, including cream separators, milking machines, etc.	-	2, 284, 800
Miscellaneous farm implements and machinery	-	17, 236, 869
Parts and accessories for farm implements and machinery	-	19, 717, 606
Total farm machinery and parts		136, 599, 089
Amount received for custom work and repairs .....	...	443, 061
All other products .....	...	15, 084, 712
Total all products		152, 126, 862

TABLE 4. Materials Used: Agricultural Implement Industry, 1960

Material	Quantity	Total cost at works
		\$
Iron:		
Pig iron, all grades	ton 10,322	641,604
Castings (rough and semi-finished received from foundry):		
Iron (gray and malleable)	" 26,133	7,010,503
Steel	" 301	163,948
Steel, hot or cold rolled (except special alloy steel):		
Bars	" 48,619	7,638,996
Plates	" 7,227	1,116,521
Sheets, plain	" 30,817	4,239,811
Sheets, galvanized	" 2,971	463,907
Tin plate	" 9	4,365
Strip	" 3,048	494,008
Structural shapes (angles, channels, etc.)	" 12,076	2,014,880
Wire	" 304	56,242
Scrap iron and steel of all kinds	" 10,799	451,541
Pipe, tubing and fittings of iron and steel	—	1,790,085
Other iron and steel (except finished parts)	—	415,328
Alloy steel:		
Carbon and alloy tool steels, including high-speed ....	...	84,563
Stainless steels .....	...	432,524
Other alloy steels .....	...	314,787
Ferro-alloys .....	...	50,057
Non-ferrous metals (all forms, including scrap):		
Aluminum—Castings	pound 189,000	96,418
Sheet	" 44,000	26,452
Other forms	" 40,826	17,586
Brass and bronze	" 196,768	63,275
Lead	" 218,824	27,522
Zinc	" 315,801	50,890
Babbitt metals and solder	" 2,612	2,148
Other non-ferrous metals	—	27,164
Other materials and supplies:		
Paints, oils and varnishes .....	...	968,768
Cotton, duck and other textiles .....	...	229,853
Foundry coke (used in cupola, not for heat or power)..	ton 3,558	115,153
Foundry sands	" 6,822	81,129
Lumber	M ft. b. m. 3,811	426,669
Fireclay	ton 508	11,847
Cupola blocks and firebrick	—	41,925
Core oil	Imp. gal. 16,984	16,492
Shipping containers .....	...	540,125
All other materials and supplies ¹ .....	...	48,306,208
Total .....	...	78,433,294

¹ No detailed information on materials used was collected from firms generally reporting the value of shipments of less than \$200,000. The total value of materials used by these firms was \$974,835 and this amount is included in "all other materials and supplies".

TABLE 5. Factory Shipments of Plows, 1952 - 60 (from All Industries)

Year	Number	Selling value at works	Year	Number	Selling value at works
		\$			\$
1952	39,902	9,285,252	1957	13,848	2,269,105
1953	21,577	4,402,949	1958	38,248	2,993,323
1954	15,443	2,979,804	1959	21,640	4,178,342
1955	24,210	4,163,342	1960	20,707	5,488,494
1956	19,573	3,272,497			

TABLE 6. Factory Shipments of Mowers, 1952 - 60 (from All Industries)

Year	Number	Selling value at works	Year	Number	Selling value at works
		\$			\$
1952	22,050	4,013,947	1957	12,225	3,003,322
1953	13,930	2,717,178	1958	17,028	4,215,132
1954	7,006	1,389,653	1959	30,605	7,008,097
1955	19,579	4,988,324	1960	25,682	5,905,986
1956	14,739	3,497,691			

TABLE 7. Factory Shipments of Harrows, 1952 - 60 (from All Industries)

Year	Number	Selling value at works	Year	Number	Selling value at works
		\$			\$
1952	85,643	6,983,941	1957	49,602	3,115,134
1953	88,908	8,089,265	1958	35,549	3,989,211
1954	65,365	2,876,529	1959	50,031	5,628,842
1955	50,352	3,058,704	1960	48,623	3,391,282
1956	44,018	2,943,838			

TABLE 8. Factory Shipments of Threshers and Reaper-Threshers, 1952 - 60 (from All Industries)

Year	Number	Selling value at works	Year	Number	Selling value at works
		\$			\$
1952	24,562	69,632,328	1957	9,669	34,186,270
1953	21,870	61,625,147	1958	14,645	41,482,845
1954	12,891	37,433,104	1959	18,134	51,074,277
1955	11,621	36,465,347	1960	14,285	41,421,578
1956	10,742	36,506,209			

TABLE 9. Factory Shipments of Seed Drills, 1952 - 60 (from All Industries)

Year	Number	Selling value at works	Year	Number	Selling value at works
		\$			\$
1952	10,629	4,671,475	1957	994	497,724
1953	7,669	3,164,105	1958	606	93,763
1954	3,848	1,617,099	1959	1,255	637,167
1955	1,881	775,703	1960	786	288,759
1956	1,024	439,171			

TABLE 10. Factory Shipments of One-Way Discs, Harrow-Plows and Tiller-Combines, 1952 - 60 (from All Industries)

Year	Number	Selling value at works	Year	Number	Selling value at works
		\$			\$
1952	21,034	9,958,121	1957	4,403	3,140,278
1953	17,073	7,914,542	1958	4,158	2,756,107
1954	8,006	4,048,150	1959	3,996	2,729,449
1955	3,279	1,719,731	1960	5,861	3,549,446
1956	4,392	2,678,895			

TABLE 11. Factory Shipments of Cultivators, 1952 - 60 (from All Industries)

Year	Number	Selling value at works	Year	Number	Selling value at works
		\$			\$
1952	28,429	5,361,483	1957	11,222	3,627,464
1953	13,558	3,466,288	1958	12,606	3,323,643
1954	9,649	2,566,451	1959	21,394	6,637,961
1955	12,870	2,809,700	1960	14,333	5,065,959
1956	13,726	3,752,537			

TABLE 12. Factory Shipments of Weeders and Corn Planters, 1952 - 60 (from All Industries)

Year	Weeders		Corn planters	
	Number	Selling value at work	Number	Selling value at works
		\$		\$
1952	2,105	436,855	2,238	184,310
1953	2,206	474,441	1,850	132,172
1954	2,216	607,541	1,201	164,804
1955	1,658	480,158	1,608	223,120
1956	1,577	314,143	1,352	218,472
1957	1,995	430,661	2,079	454,278
1958	1,585	333,255	810	252,513
1959	2,836	683,445	1,347	322,746
1960	4,980	1,417,194	894	171,774

TABLE 13. Factory Shipments of Hay Loaders and Hay Rakes, 1952 - 60 (from All Industries)

Year	Hay loaders		Hay rakes, including combination side rakes and tedders	
	Number	Selling value at works	Number	Selling value at works
		\$		\$
1952	6,019	1,175,843	18,744	3,211,930
1953	4,755	954,059	11,539	2,280,599
1954	1,674	398,565	7,773	1,790,724
1955	1,272	286,545	9,937	2,184,269
1956	304	63,975	6,987	1,155,490
1957	212	54,052	7,204	2,079,695
1958	149	30,525	8,784	4,872,487
1959	828	71,795	9,767	3,417,620
1960	25	15,883	6,304	1,784,687

TABLE 14. Factory Shipments of Manure Spreaders, 1952 - 60 (from All Industries)

Year	Number	Selling value at works	Year	Number	Selling value at works
		\$			\$
1952	8,440	2,600,927	1957	3,643	1,347,669
1953	11,821	3,954,225	1958	4,165	1,646,068
1954	6,024	2,148,507	1959	5,502	2,591,897
1955	5,276	1,782,546	1960	8,042	4,048,500
1956	4,531	1,591,328			

TABLE 15. Factory Shipments, Imports and Exports of Agricultural Implements and Parts, 1952-60

Year	Production	Imports	Exports
	dollars		
1952	194,688,000	197,266,000	105,408,000
1953	159,851,000	209,143,000	74,316,000
1954	113,089,000	143,163,000	76,771,000
1955	109,701,000	178,248,000	76,010,000
1956	117,656,000	232,148,000	67,477,000
1957	117,896,000	202,222,000	69,676,000
1958	129,088,000	198,295,000	97,594,000
1959	151,974,000	273,821,000	114,695,000
1960	140,695,000	228,653,000	85,426,000

Note: In Table 15 production values are computed at factory selling prices, the import values are based on fair market prices in countries of origin, and export values represent the amounts actually received for goods, exclusive of freight, insurance and other handling charges. Details of imports and exports are shown in Tables 23 and 24.

TABLE 16. Farm Implement and Equipment Sales, (including Repair Parts) by Provinces, 1956 - 60

Province	1956	1957	1958	1959	1960
Canada	202,592,127	183,721,649	205,993,039	251,118,817	258,777,808
Atlantic provinces	8,485,890	6,369,173	6,897,786	7,691,565	9,068,834
Quebec	26,630,438	27,954,950	30,455,335	31,688,077	31,537,729
Ontario	49,265,892	46,152,225	50,060,232	58,611,525	58,174,743
Manitoba	22,532,551	18,699,296	21,530,215	28,571,930	31,024,616
Saskatchewan	50,104,179	41,568,005	46,421,324	61,396,984	69,052,381
Alberta	39,676,998	38,213,577	45,504,705	56,426,827	53,335,647
British Columbia	5,896,179	4,764,423	5,123,442	6,731,909	6,583,858

Note: In Table 16 the values are based on distributors' wholesale prices. The details of sales are given in a separate report (Catalogue No. 63-203) which may be obtained by applying to the Dominion Bureau of Statistics, Ottawa, Canada.

TABLE 17. Number of Specified Machines on Farms, 1951 (according to Last Decennial Census)

Province	Auto-mobiles	Motor trucks	Tractors	Gasoline engines	Threshing machines	Grain binders	Grain combines	Mowing machines	Milking machines	Electric motors
	number									
Newfoundland	185	507	126	136	5	4	—	737	66	131
Prince Edward Island	4,147	1,679	2,776	3,813	2,973	5,956	18	7,720	454	1,754
Nova Scotia	6,970	5,687	4,307	2,178	826	2,101	16	16,114	1,903	3,861
New Brunswick	7,999	4,786	5,221	2,439	2,450	4,149	211	16,288	1,901	3,471
Quebec	41,602	19,167	31,971	30,692	30,360	43,467	420	103,936	18,238	43,638
Ontario	114,870	41,486	105,204	20,243	15,946	85,135	10,031	112,567	38,740	84,679
Manitoba	32,060	21,163	50,984	17,370	9,425	31,410	15,268	37,856	2,302	18,850
Saskatchewan	62,963	52,626	106,664	55,763	19,221	70,584	42,997	63,838	2,330	12,711
Alberta	46,314	39,723	79,282	46,003	14,768	57,930	20,852	53,468	4,469	20,925
British Columbia	12,557	9,291	13,148	4,407	717	2,638	687	10,743	3,788	6,661
Yukon	—	7	3	7	—	—	—	5	—	—
Canada	329,667	196,122	399,686	183,051	96,691	303,374	90,500	423,272	74,191	196,681

TABLE 18. Principal Statistics classified according to Type of Ownership: Agricultural Implement Industry, 1957 and 1960

Type	Estab-lish-ments	Em-ployees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	number		dollars		
1957					
Individual ownership	13	44	28,527	102,275	320,778
Partnerships	3	24	24,812	128,502	222,311
Incorporated companies	47	9,668	37,495,915	58,131,365	117,533,675
Co-operatives	1				
Totals	64	9,736	37,659,414	58,362,142	118,076,764
1960					
Individual ownership	11	22	58,117	95,177	205,431
Partnerships	3	18	51,433	69,919	126,930
Incorporated companies	54	10,889	52,665,899	78,268,198	151,794,501
Co-operatives	1				
Totals	69	10,929	52,775,449	78,433,294	152,126,862

**TABLE 19. Principal Statistics grouped according to Selling Value of Factory Shipments:
Agricultural Implement Industry, 1957 and 1960**

Establishments reporting value of factory shipments	Estab-lish-ments	Em-employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
1957					
Under \$10,000	4	6	12,151	7,712	23,642
\$ 10,000 to \$ 24,999	11	31	77,284	56,909	171,973
25,000 " 49,999	9	45	107,068	111,342	299,596
50,000 " 99,999	10	113	276,103	356,459	780,658
100,000 " 199,999	7	166	432,518	411,264	983,101
200,000 " 499,999	5	92	262,538	623,831	1,139,543
500,000 " 999,999	9	552	1,936,395	2,492,958	6,604,605
1,000,000 " 4,999,999	5	820	3,298,079	6,741,485	12,246,074
5,000,000 and over	4	7,905	31,180,675	47,560,182	95,827,572
Head offices		6	76,603		
Totals	64	9,736	37,659,414	58,362,142	118,076,764
1960					
Under \$10,000	9	11	19,149	17,619	47,588
\$ 10,000 to \$ 24,999	7	17	44,858	49,390	124,898
25,000 " 49,999	8	53	101,566	135,295	287,279
50,000 " 99,999	9	99	274,409	325,326	709,123
100,000 " 199,999	11	185	501,135	575,713	1,546,102
200,000 " 499,999	8	285	1,156,766	1,753,754	4,142,358
500,000 " 999,999	2				
1,000,000 " 4,999,999	9	1,136	4,600,642	9,416,913	16,605,587
5,000,000 and over	6	9,139	46,003,376	66,159,284	128,663,930
Head offices		4	73,548		
Totals	69	10,929	52,775,449	78,433,294	152,126,862

TABLE 20. Employees and their Earnings: Agricultural Implement Industry, 1959 and 1960

Province	Employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
1959								
Quebec and New Brunswick ..	53	12	262	4	331	259,385	652,470	911,855
Ontario	2,174	532	9,329	77	12,112	14,868,072	42,013,555	56,881,627
Manitoba	58	24	392	3	477	543,803	1,221,715	1,765,518
Saskatchewan	11	1	27	—	39	65,682	108,767	174,449
Alberta	22	6	67	1	96	106,757	216,594	323,351
British Columbia	—	—	7	—	7	—	28,853	28,853
Canada	2,318	575	10,084	85	13,062	15,843,699	44,241,954	60,085,653
1960								
Quebec	45	10	208	2	265	246,444	608,990	855,434
Ontario	2,317	543	7,048	52	9,960	16,569,865	32,761,580	49,331,445
Manitoba	65	27	439	6	537	593,855	1,370,589	1,964,444
Saskatchewan	9	—	33	—	42	57,454	128,754	186,208
Alberta	24	9	78	3	114	135,151	266,044	401,195
British Columbia	1	—	10	—	11	1,168	35,555	36,723
Canada	2,461	589	7,816	63	10,929	17,603,937	35,171,512	52,775,449

TABLE 21. Production Workers, by Months: Agricultural Implement Industry, 1960

Month	Establishments reporting monthly detail ¹	
	Male	Female
January	9,530	100
February	9,593	88
March	9,319	84
April	9,367	75
May	8,903	59
June	6,155	52
July	7,392	46
August	3,729	34
September	5,614	45
October	6,054	25
November	6,646	46
December	6,815	51
Average for establishments reporting monthly detail	7,593	59
Average estimated for small establishments ²	222	4
Average for all establishments	7,615	63

¹ The number of production workers, by months, was collected only for establishments generally reporting value of shipments of \$200,000 and over.

² For establishments generally reporting value of shipments of less than \$200,000, no data on number of workers were collected. Average was estimated by using change in value of shipments to arrive at value of payroll which was then used in conjunction with estimated average earnings to arrive at number of workers.

TABLE 22. Fuel and Electricity Used: Agricultural Implement Industry, 1960

Kind	Quantity	Cost at plant
		\$
1. Establishments reporting commodity detail: ¹		
Bituminous coal:		
(a) From Canadian mines	ton 19,290	208,475
(b) Imported	" 37,274	367,038
Sub-bituminous coal (from Alberta mines only)	" 40	390
Anthracite coal	" 13	298
Lignite coal	" 172	1,434
Coke	" 36	1,173
Gasoline (including gasoline used in cars and trucks)	Imp. gal. 349,749	123,363
Fuel oil including kerosene or coal oil	" 2,195,869	256,543
Wood	cord 76	1,615
Gas:		
(a) Liquefied petroleum gases	Imp. gal. 14,057	3,576
(b) Other manufactured gas	M cu. ft. 937	596
(c) Natural gas	" 252,522	190,660
Other fuel		3,634
Electricity purchased	kwh. 80,852,854	763,062
2. Estimate for establishments for which no data were collected: ²		
Cost of fuel and electricity .....	...	50,676
3. All establishments:		
Total cost of fuel and electricity .....	...	1,972,973

¹ Establishments generally reporting value of shipments of \$200,000 and over.

² Establishments generally reporting value of shipments of less than \$200,000.

TABLE 23. Imports of Agricultural Implements, 1959 and 1960

Item	1959		1960	
	Quantity	Value	Quantity	Value
Cream separator parts	—	\$ 147,792	—	\$ 124,732
Cream separators	9,834	1,012,771	7,661	873,781
Milk clarifiers and parts	—	9,588	—	31,382
Milking machines and attachments, centrifugal machines for testing butter-fat, milk or cream, and parts	—	2,122,163	—	2,141,507
Pasteurizers for dairying purposes, and parts	287	499,148	305	529,016
Dairy machinery including power churns, power milk coolers, power fillers and cappers, power ice cream mixers, power butter printers, power cream savers, power bottle sterilizers, power brine tanks, power milk bottle washers, power milk can washers; ice-breaking machines, valveless or centrifugal milk pumps, sanitary milk and cream vats; not to include motive power; parts of all the foregoing	—	3,036,712	—	2,462,677
Forks, pronged	9,606	100,291	12,466	111,246
Harvesters, self-binding or not, and binding attachments and parts	1,598	2,779,639	1,253	2,715,626
Hay loaders and parts	231	61,840	179	62,271
Mowing machines and parts	9,890	3,904,468	7,176	3,164,516
Potato diggers, planters and parts	786	914,712	883	1,050,207
Dump rakes, side rakes, tedders and parts	9,745	3,463,922	10,573	3,400,464
Rakes, n.o.p.	43,692	209,856	54,521	263,317
Scythes	3,655	64,873	5,162	95,482
Sickles or reaping hooks	2,171	17,380	1,199	8,682
Cultivators, horse hoes, scufflers, weeders, and parts	—	7,183,512	—	7,191,357
Drills, seed, garden seeders, and parts	—	2,200,192	—	2,380,704
Harrows, disc, and parts	—	1,588,894	—	1,435,125
Harrows and parts, n.o.p.	—	874,435	—	706,230
Hoes	4,182	33,379	6,719	52,835
Ploughs, disc and parts	—	762,315	—	556,720
Ploughs and parts n.o.p.	—	3,059,414	—	2,416,419
Rollers, farm, field, lawn or garden, and soil packers, and parts	696	77,613	1,518	106,063
Fanning mills, pea viners and corn husking machines, and parts	567	807,661	369	778,714
Harvesters in combination with threshing machine separators, and complete parts	3,814	26,979,353	4,489	25,324,935
Threshing machine separators	31	20,772	23	11,897
Threshing machine separators, parts of, including wind stackers, baggers and self-feeders, and complete parts	—	139,952	—	45,880
Equipment for generating electric power for farm purposes	—	70,157	—	54,544
Fodder, feed or ensilage cutters and parts	1,061	670,375	239	92,743
Fruit and vegetable grading, grating, washing and wiping machines and combination bagging and weighing machines, and parts; machines for topping vegetables and machines for bunching and/or tying cut flowers, vegetables, and nursery stock, and parts; machines and parts for making or lidding boxes for fruit or vegetables; egg-graders and egg-cleaners, and parts, and apparatus for sterilizing bulbs; pressure testing apparatus for determining the maturity of fruit, and parts.	—	1,123,073	—	907,357
Grain crushers, grain or hay grinders and parts	2,741	939,810	1,452	594,068
Hay presses and parts	7,526	10,339,168	8,242	11,017,515
Manure spreaders and parts	7,549	3,201,792	5,689	2,585,354
Post-hole diggers and parts	3,719	209,043	3,626	237,970
Spades and shovels of iron or steel n.o.p.	18,896	232,036	16,809	207,229
Spraying and dusting machines and attachments therefor, including hand sprayers and parts, for agricultural or horticultural purposes	—	2,027,949	—	2,113,510

TABLE 23. Imports of Agricultural Implements, 1959 and 1960 - Concluded

Item	1959		1960	
	Quantity	Value \$	Quantity	Value \$
Traction ditching machines (not being ploughs) and parts	83	859,527	93	603,772
Tractors	39,771	115,223,926	29,011	83,340,163
Parts of tractors, and accessories, including parts therefor; Automobile traction attachments and parts	-	56,844,923	-	48,201,211
Pruning hooks, pruning shears, and animal dehorning instru- ments	-	152,524	-	177,202
Agricultural implements and machinery n.o.p. and parts	-	19,854,015	-	20,478,153
Total imports	-	273,820,965	-	228,652,566

TABLE 24. Exports of Agricultural Implements, 1959 and 1960

	1959		1960	
	Quantity	Value \$	Quantity	Value \$
Cream separators and parts	-	7,762	-	5,058
Milking machines and parts	-	1,042,488	-	1,214,910
Binders	-	-	1	85
Hay rakes	5,277	1,771,321	3,109	860,505
Mowing machines and reapers	22,490	6,806,554	17,575	5,557,886
Parts, attachments and accessories for mowers	-	-	-	1,429,755
Swathers and windrowers	1,674	2,130,790	1,276	1,718,118
Reaper-threshers or combines	13,732	49,091,660	9,507	32,387,970
Parts, attachments and accessories for combine reaper- threshers	-	-	-	6,264,472
Cultivators	10,554	2,494,253	8,227	2,154,791
Drills and sowers	6,278	2,845,193	6,198	2,936,131
Harrows, disc, and parts	-	4,571,975	-	2,476,839
Harrows and parts n.o.p.	-	174,886	-	414,668
Ploughs, disc, and parts	-	2,811,186	-	1,669,480
Ploughs and parts n.o.p.	-	5,523,263	-	5,011,417
Planters	1,509	413,323	1,081	386,676
Threshing machine separators and parts	-	45,399	-	16,068
Garden and farm tools	-	47,764	-	54,328
Spades and shovels and parts	1,350	27,870	1,438	35,937
Tractors, farm	1,706	4,489,862	1,441	4,146,893
Attachments for agricultural implements	-	2,378,987	-	1,593,298
Farm implements and machines n.o.p.	-	8,827,300	-	10,098,014
Parts of farm implements and machines n.o.p.	-	19,193,451	-	4,993,021
Total exports	-	114,695,287	-	85,426,320

Directory of Firms: Agricultural Implement Industry, 1960

Name of firm	Address
Quebec:	
Desjardins Limitée	St-Andre de Kamouraska
Dion Frères Inc.	St-Thérèse de Blainville
Houde & Fils Enr'g.	Wickham
La Cie R.A. Lajoie Ltée.,	259 rue St. Isidore, St. Pie,
La Compagnie Jutras Ltée.,	Rue Monfette, Victoriaville
La Fonderie Laperle Ltée.,	St. Ours
La Machinerie Ideale Ltée	St. Césaire,
Ledoux, V., Steel Products Limited	480 Brodeur Ave., St. Hyacinthe
Lemay, Armand, & Fils Ltée	St. Basile Le Grand
Safeway Farm Equipment Co. Limited	Rougemont
Triumph Products Company	110 McGill St., Montreal
Ontario:	
Baertsoen, Frank, & Sons	R.R. #5, Aylmer West
Canadian Potato Machinery Co., Ltd.	17 Jarvis St., Galt
Cockshutt Farm Equipment Limited	66 Mohawk St., Brantford
Deere, John, Welland Works of John Deere Limited	Welland-Pt. Colborn Hwy., Welland
DeLaval Company Limited	113 Park St., Peterborough
Delhi Foundry & Farm Machinery Limited	191 King St., Delhi
Ebersol Farm Equipment Co. Limited	Milverton
Ernst Bros. Company Limited	Durham St., Mount Forest
Fleury - Bissell Implements Limited	Elora
Gray - Snyder Limited	Heidelberg
Harris Manufacturing	Jarvis
International Harvester Co. of Canada Ltd. (Hamilton Works)	208 Hillyard St., Hamilton
International Harvester Co. of Canada Ltd. (Tractor Works) ..	208 Hillyard St., Hamilton
Jackson's Manufacturing & Machinery Ltd.,	518 Broadway St. North, Tillsonburg
Lobsinger Bros. Ltd.	Mildmay
McKee Bros. Ltd.	Union St., Elmira
Massey-Harris-Ferguson Ltd.	915 King St. W., Toronto 3
Massey-Harris-Ferguson Ltd.	645 Dundas St., Woodstock
Massey-Harris-Ferguson Ltd.	Market St. and Greenwich St., Brantford
Prometals Limited	Main St., Dutton
Rittenhouse, M.K., & Sons, Limited	Main St., Jordan Station
Sedore, Ernest, & Son	Mount Albert
Serviss Industries	61 Wgle St., Leamington
Smith Brothers (Camden)	R.R. No. 1, Thamesville
Snyder, G.H.,	Copetown
Spramotor Limited	1099 - 1105 York St., London
Tac-Lite Limited	131 Grand Avenue South, Galt
Manitoba:	
Canadian Co-operative Implements Ltd.	601 Bowman Ave., East Kildonan
Cascade Brothers Ltd.	12th & Richmond Ave., Brandon
Derby Manufacturing Co. Limited	414 Osborne St., Winnipeg 13
Forever Industries Limited	115 Robinson St., Winnipeg 4
Hart Emerson Simon Ltd., The	1425 Whyte Ave., Winnipeg 3
Hydraulic Engineering Co.	Partridge & Aikins Sts., West Kildonan
Imperial Steel Products Ltd.	901 Madison St., St. James

Directory of Firms: Agricultural Implement Industry, 1960 - Concluded

Name of firm	Address
Manitoba - Concluded:	
Inland Steel & Forgings Limited	675 Washington Ave., East Kildonan
Killbery Industries Ltd.	631 Ferry Road, St. James
Machine Industries Ltd.	611 Archibald St., St. Boniface
Malmgren Implement Mfg. Co. (Man.) Ltd.	753 Marlon St., St. Boniface
Northern Equipment Limited	277 Madison St., St. James
Plett's Industries	Rosenort
Standard Gas Engine Works Limited	490 Railway St., Morden
Saskatchewan:	
Brandt Electric Ltd.	1101 Winnipeg St., Regina
Brown Industries	Drinkwater
Dulton Manufacturing Co. Ltd.	Yorkton
Flexi-coil Land Packers Limited	1025 Ave. P. South, Saskatoon
Morris Rod Weeder Co. Ltd.	62 Argyle St., Yorkton
Nodge Manufacturing Co.	140-9th St. N.W., Swift Current
Shaunavon Industries	3rd, Ave. West, Shaunavon
Alberta:	
Alberta Engineering Limited	Wetaskiwin
Ferguson, E.C., Co.	9027-111th Ave., Edmonton
Golden Arrow Sprayers Ltd.	1439-17th Ave. S.E., Calgary
Kirchner Machine Co.	2005-2nd Ave. South, Lethbridge
Noble Cultivators Ltd.	Nobleford
Samson Rotary Rod Weeder Ltd.	1019-10th Ave. W., Calgary
Victory Equipment Ltd.	920-2nd. Ave. N., Lethbridge
British Columbia:	
Farm and City Service Co. Ltd.	133 Westminster Ave. W., Penticton
Irrigation Products Limited	Osoyoos
Swanson Sprayers Ltd.	1658 Pendozl St., Kelowna

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