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DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY
MINING, METALLURGICAL & CHEMICAL BRANCH



**THE FARM IMPLEMENTS AND
MACHINERY INDUSTRY**
IN
CANADA
1940



OTTAWA
1942

Price 25 cents

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ANNUAL INDUSTRY REPORT

IRON AND STEEL AND THEIR PRODUCTS GROUP

THE FARM IMPLEMENTS AND MACHINERY INDUSTRY, 1940

Production by establishments in the farm implements and machinery industry was 40.6 per cent higher in value in 1940 than in 1939 and 5.8 per cent higher than in 1938. Actual values (at factory prices) for these years were as follows: \$22,553,459 in 1940; \$16,035,223 in 1939 and \$21,299,185 in 1938.

Imports of agricultural machinery increased to \$30,673,217 in 1940 from \$20,917,487 in 1939, a gain of 47 per cent. The value of farm tractors and parts was \$22,236,801 compared with \$15,002,601, and other farm equipment advanced to \$8,436,416 from \$5,914,886.

Exports and re-exports of farm implements were appraised at \$9,609,360 in 1940, an increase of about 37 per cent over the \$7,027,860 reported for 1939.

Thirty-four factories were included in the farm implements industry in 1940, there being 24 works in Ontario, 5 in Quebec, 3 in Manitoba and 1 each in Alberta and Prince Edward Island. The works in Ontario accounted for 96 per cent of the total output.

The industry employed an average of 6,857 workers during the year; the 1,059 salaried employees were paid \$1,768,863 and the 5,798 wage-earners, \$6,951,116. The total of \$8,719,979 for salaries and wages was 45 per cent more than the amount distributed to the 5,306 employees in 1939.

Capital employed in manufacturing operations at the end of the year amounted to \$55,688,391, including \$14,280,823 as the value of land, buildings and factory equipment, \$18,748,709 as the inventory value of materials and products on hand, and \$22,658,859 as operating capital. The value of buildings, etc., was \$1 million lower than in 1939, operating capital was down \$2.2 millions, and inventories increased \$0.7 millions.

Sales in Canada of new farm implements and equipment were valued at \$47,595,154 (at wholesale prices to dealers) in 1940 or about 40 per cent more than in 1939 when the corresponding value was \$34,060,447. Sales of the various implements are given in detail in a separate report which has been issued by the Bureau.

Table 1 - PRINCIPAL STATISTICS OF THE FARM IMPLEMENTS AND MACHINERY INDUSTRY, 1929 - 1940

Years	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
		\$		\$	\$	\$	\$
1929	62	103,356,773	11,408	14,775,889	799,634	19,016,981	40,659,479
1930	57	98,684,828	7,405	9,564,049	661,392	11,353,523	26,902,139
1931	57	84,501,405	4,471	4,997,732	381,925	3,597,574	11,175,404
1932	47	75,576,979	2,758	3,097,975	262,571	1,907,768	5,310,078
1933	40	63,903,360	3,039	3,057,501	283,748	2,215,031	5,326,416
1934	35	55,742,696	3,706	3,776,918	368,292	3,632,821	8,817,756
1935	34	55,528,865	4,989	5,325,620	478,043	6,448,183	13,692,476
1936	36	56,121,427	5,508	6,041,620	530,300	7,209,399	15,957,460
1937	37	60,927,315	6,446	7,350,043	567,240	9,319,032	18,961,394
1938	38	63,761,644	6,458	7,509,706	533,363	9,611,780	21,299,185
1939	36	58,067,213	5,306	6,024,720	449,158	6,672,529	16,035,223
1940	34	55,688,391	6,857	8,719,979	583,276	10,323,849	22,553,459
Per cent change 1940 from 1939.	..	-4.1	+29.2	+44.7	+29.8	+54.7	+40.6

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

Farm Implements

Table 2 - INDEX NUMBERS OF PRODUCTION OF FARM IMPLEMENTS AND MACHINERY, 1923-1940 (1926 = 100)

Years	INDEX NUMBERS		Years	INDEX NUMBERS	
	Value(x)	Volume		Value(x)	Volume
1923	68	67.0	1938	14	29.1
1924	69	60.9	1934	23	41.1
1925	65	67.7	1935	36	58.5
1926	100	100.0	1936	42	65.5
1927	112	112.2	1937	50	78.6
1928	108	106.8	1938	56	79.0
1929	106	98.4	1939	42	57.7
1930	70	70.4	1940	59	122.1
1931	29	40.8			
1932	14	24.8			

(x) Gross selling value at works.

Table 3 - APPARENT CONSUMPTION OF FARM IMPLEMENTS AND MACHINERY IN CANADA, CALENDAR YEARS 1920 - 1940

Years	Production of the farm implements and machinery industry (x) (Gross selling value at works)	IMPORTS	EXPORTS AND RE-EXPORTS	APPARENT CONSUMPTION (xx)
	\$			
1920	50,301,302	23,123,201	12,197,994	61,226,509
1921	38,947,968	9,199,653	7,615,325	40,531,796
1922	18,240,381	7,732,217	5,041,044	20,931,554
1923	26,026,419	11,893,646	8,187,492	29,732,573
1924	26,447,171	6,585,750	11,356,258	21,676,663
1925	24,770,216	11,234,339	12,374,176	23,630,379
1926	38,269,214	17,630,949	17,002,590	38,897,573
1927	42,996,288	26,101,338	16,559,806	52,537,820
1928	41,199,841	39,895,490	14,560,412	66,532,919
1929	40,659,479	31,845,326	20,118,978	52,385,827
1930	26,902,139	21,944,231	10,435,973	38,410,397
1931	11,175,404	3,964,344	3,009,839	12,129,909
1932	5,510,078	2,204,646	1,595,815	6,118,909
1933	5,326,416	2,290,401	1,510,795	6,106,022
1934	8,817,756	3,204,029	3,351,220	8,670,565
1935	13,692,476	5,493,428	6,455,812	12,730,092
1936	15,957,460	9,373,876	6,088,155	19,263,181
1937	18,961,394	17,233,658	10,000,033	26,195,019
1938	21,299,185	20,319,626	7,871,931	33,748,880
1939	16,035,223	20,917,487	7,027,860	29,924,850
1940	22,553,459	30,673,217	9,609,360	43,617,316

(x) The value of production for this industry includes some goods, such as, stoves, road machinery, etc., which cannot be classed as farm implements but, on the other hand, some farm machinery was produced as secondary products by concerns in other industrial groups. It is estimated that these values counter-balance each other.

(xx) No account is taken of changes in factory stocks from year to year.

Farm Implements

Table 4 - PRINCIPAL STATISTICS, BY PROVINCES, 1939 and 1940

Provinces	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
<u>1939</u>							
Quebec	5	512,636	189	124,462	7,700	150,451	341,447
Ontario	25	56,937,657	5,006	5,776,313	429,106	6,322,535	15,292,756
Prince Edward Island ..	1)						
Manitoba	1)	87,270	14	11,237	998	6,662	23,247
Alberta	4	529,655	97	112,708	11,354	192,881	372,773
CANADA	36	58,067,218	5,306	6,024,720	449,158	6,672,529	16,035,223
<u>1940</u>							
Quebec	5	541,885	176	142,653	9,771	167,218	388,294
Ontario	24	54,518,387	6,581	8,455,508	560,747	9,984,373	21,715,430
Prince Edward Island ..	1)						
Alberta	1)	99,628	18	15,816	892	6,154	32,116
Manitoba	3	528,491	82	106,002	11,866	166,104	417,619
CANADA	34	55,688,391	6,857	8,719,979	583,276	10,325,849	22,555,459

Table 5 - CAPITAL EMPLOYED, BY CLASSES AND BY PROVINCES, 1939 and 1940 (On the last day of the year)

Provinces	Present value of lands, buildings, fixtures, machinery and tools	Inventory value of materials on hand, stocks in process and finished products on hand	Operating capital (cash, bills and accounts receivable, etc.)	TOTAL CAPITAL EMPLOYED
<u>1939</u>				
Quebec	97,595	96,230	318,811	512,636
Ontario	14,910,654	17,833,406	24,393,597	56,937,657
Manitoba	180,232	233,540	115,833	529,655
Other provinces	38,201	27,493	21,576	87,270
CANADA	15,226,732	17,990,669	24,849,817	58,067,218
<u>1940</u>				
Quebec	97,468	88,413	356,004	541,885
Ontario	13,979,658	18,422,063	22,116,666	54,518,387
Manitoba	163,778	204,524	160,189	528,491
Other provinces	39,919	33,709	26,000	99,628
CANADA	14,280,823	18,748,709	22,658,859	55,688,391

Table 6 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1939 and 1940

Provinces	AVERAGE NUMBER OF EMPLOYEES				TOTAL	Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages					
	Male	Female	Male	Female				
<u>1939</u>								
Quebec	35	...	156	...	189	41,899	82,563	124,462
Ontario	751	228	3,988	39	5,006	1,544,890	4,231,423	5,776,313
Manitoba	24	5	67	1	97	52,662	60,046	112,708
Other provinces	4	2	8	...	14	5,150	6,087	11,237
CANADA	812	235	4,219	40	5,306	1,644,601	4,330,119	6,024,720
<u>1940</u>								
Quebec	30	2	144	...	176	54,017	88,636	142,653
Ontario	743	255	5,517	66	6,581	1,659,611	6,795,897	8,455,508
Manitoba	20	5	56	1	82	45,924	60,078	106,002
Other provinces	3	1	14	...	18	9,311	6,505	15,816
CANADA	796	263	5,731	67	6,857	1,763,863	6,951,116	8,719,979

Farm Implements

Table 7 - WAGE-EARNERS, BY MONTHS, 1939 and 1940 (On the last work day of each month)

Months	1 9 3 9			1 9 4 0		
	Male	Female	TOTAL	Male	Female	TOTAL
January	4,562	48	4,610	4,750	71	4,821
February	4,648	48	4,696	4,975	71	5,046
March	4,552	46	4,598	5,364	74	5,438
April	4,462	44	4,506	5,664	64	5,728
May	4,215	41	4,256	5,978	64	6,042
June	4,100	27	4,127	5,936	63	5,999
July	3,937	28	3,965	6,004	61	6,065
August	3,388	23	3,421	5,874	64	5,938
September	3,637	36	3,673	6,011	69	6,080
October	4,317	43	4,360	5,986	69	6,055
November	4,544	40	4,584	6,022	65	6,087
December	4,237	48	4,285	6,247	75	6,322
AVERAGE	4,219	40	4,259	5,731	67	5,798

Table 8 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1940 (In one week of normal employment; overtime not included)

Hours worked per week	Number of wage-earners	Per cent of total	Hours worked per week	Number of wage-earners	Per cent of total
50 hours or less	137	2.1	51 - 54 hours	570	8.6
31 - 43 hours	607	9.2	55 hours	356	5.4
44 hours	257	3.2	56 - 64 hours	651	10.0
45 - 47 hours	1,503	22.7	65 hours and over ...	229	3.5
48 hours	1,976	30.0	TOTAL	6,639	100.0
49 - 50 hours	353	5.3	Total wages paid in selected week		\$173,945

Table 9 - FUEL AND ELECTRICITY USED, 1939 and 1940

Kinds	Unit of measure	1 9 3 9		1 9 4 0	
		Quantity	Cost at works	Quantity	Cost at works
Bituminous coal - Canadian	short ton	815	\$ 6,131	2,060	\$ 12,647
Imported	short ton	29,435	151,390	29,936	166,176
Anthracite coal	short ton	725	5,410	992	7,887
Coke	short ton	193	2,045	161	1,954
Gasoline	Imp. gal.	23,275	4,477	64,143	15,394
Kerosene	Imp. gal.	730	118	1,237	220
Fuel oil	Imp. gal.	1,087,838	79,095	1,807,919	133,491
Wood	cords	604	2,720	947	3,779
Gas - Manufactured	M cu. ft.	113,282	35,271	150,087	43,666
Natural	M cu. ft.	6,656	3,806	12,458	6,970
Other fuel	xxx	...	110	...	710
Electricity	K. W. H.	14,921,610	158,535	18,504,075	190,482
TOTAL .....	\$	...	449,158	...	583,276

Table 10 - POWER EQUIPMENT, 1939 and 1940

	1 9 3 9		1 9 4 0	
	Number of units	Total horse power rating	Number of units	Total horse power rating
Steam engines and steam turbines	15	2,635	3	325
Gasoline, gas and oil engines (except Diesel)	7	36	1	10
Hydraulic turbines or water wheels	1	45	...	...
Total Primary Equipment	23	2,638	4	535
Electric motors run by purchased power	1,390	17,103	79	1,670
TOTAL	1,413	19,741	83	2,205
Stationary boilers	42	5,327	2	200

Table 10 - POWER EQUIPMENT, 1939 and 1940 (Concluded)

	Ordinarily in use		In reserve or idle	
	Number of units	Total horse power rating	Number of units	Total horse power rating
1 9 4 0				
Steam engines and steam turbines	15	2,540	3	525
Gasoline, gas and oil engines (except Diesel)	6	75	1	10
Hydraulic turbines or water wheels	5	116	...	...
Total Primary Equipment	24	2,731	4	555
Electric motors run by purchased power	1,593	18,053	80	1,707
TOTAL	1,617	20,784	84	2,242
Stationary boilers	42	5,265	2	200

Table 11 - MATERIALS USED IN MANUFACTURING, 1939 and 1940

Materials	Unit of measure	1 9 3 9		1 9 4 0	
		Quantity	Total cost at works \$	Quantity	Total cost at works \$
Iron -					
Pig iron, all grades	long ton	8,871	208,513	15,925	395,664
Iron castings of all kinds purchased	short ton	3,866	466,752	4,717	600,301
Steel, hot or cold rolled (except special alloy steel) -					
Steel castings	short ton	100	15,040	92	17,679
Bars	short ton	24,476	1,425,804	48,875	2,725,610
Forgings	short ton	339	17,909	502	24,621
Plates	short ton	386	24,754	999	62,724
Shafting	short ton	503	45,511	513	40,980
Sheets, plain	short ton	1,188	93,513	4,981	328,461
Sheets, galvanized	short ton	3,040	226,171	2,236	177,510
Strip	short ton	869	50,273	1,537	99,060
Stampings	short ton	898	116,981	1,578	194,034
Structural shapes (angles, channels, etc.)	short ton	1,093	57,706	2,149	114,043
Wire	short ton	159	13,414	307	23,628
Scrap iron and steel of all kinds	short ton	12,866	182,889	17,827	286,103
Pipe, tubing and fittings of iron and steel	xxx	...	75,010	...	112,487
Other iron and steel (except finished parts) ...	xxx	...	10,246	...	9,517
Alloy steel -					
Carbon and alloy tool steels, including high speed	short ton	60	36,656	93	53,968
Stainless steels	short ton	20	20,003	20	25,564
Other alloy steels	short ton	...	2,809	...	434
Ferro-alloys	short ton	18	5,117	...	9,746
Non-ferrous metals (including scrap) -					
Aluminium	pound	19,446	3,951	24,529	4,717
Brass and bronze	pound	90,216	16,446	121,953	20,765
Copper	pound	213,781	28,876	325,334	45,382
Lead	pound	20,244	1,017	53,178	2,910
Nickel	pound	12,251	3,052	15,739	4,714
Tin	pound	24,308	11,581	22,285	12,298
Zinc	pound	23,622	1,157	27,586	1,618
Mabbutt metals and solder	pound	46,704	11,404	37,808	9,675
Other metals	xxx	...	5,444	...	903
Other materials and supplies -					
Parts for machines or vehicles	xxx	...	1,352,209	...	2,105,424
Bolts, nuts, rivets and screws	xxx	...	155,710	...	207,207
Electrical goods, including motors	xxx	...	58,697	...	72,067
Paints, oils and varnishes	xxx	...	165,342	...	234,478
Wheels	xxx	...	155,108	...	198,264
Cotton, duck and other textiles	xxx	...	236,573	...	224,688
Foundry coke (used in cupola; not for heat or power)	short ton	4,450	51,362	7,494	93,362
Moulding sands	short ton	2,773	10,204	4,483	16,911

Farm Implements

Table 11 - MATERIALS USED IN MANUFACTURING, 1939 and 1940 - (Concluded)

Materials	Unit of measure	1 9 3 9		1 9 4 0	
		Quantity	Total cost at works	Quantity	Total cost at works
			\$		\$
Core sands	short ton	1,877	4,661	3,145	10,391
Plumbago and graphite	pound	8,860	736	10,715	975
Other foundry facings	pound	...	3,806	...	3,703
Patterns and models	xxx	...	13,297	...	5,323
Lumber	M ft.b.m.	9,687	446,754	12,648	569,041
Firebrick	number	91,884	7,387	236,587	18,037
Fireclay	short ton	704	7,162	302	2,872
Cupola blocks	xxx	...	810	...	1,761
Core oil	Imp.gal.	10,551	6,085	20,900	13,284
Core compounds	xxx	...	6,401	...	7,567
Acetylene	cu.ft.	125,703	3,817	376,068	8,161
Oxygen	cu.ft.	146,810	2,098	263,610	3,111
Shipping containers	xxx	...	22,581	...	22,737
All other materials and supplies	xxx	...	803,930	...	1,099,763
TOTAL	xxx	...	6,672,529	...	10,323,849

Table 12 - PRODUCTS MADE, 1939 and 1940

	1 9 3 9		1 9 4 0	
	Number	Selling value at works	Number	Selling value at works
		\$		\$
Tillage implements -				
Cultivators, corn	1,534	34,543	3,248	57,030
Cultivators, other	4,222	372,183	6,732	528,746
Harrows - Disc (except one-way discs)	6,558	358,082	9,815	646,528
Spike tooth sections	16,128	64,243	21,450	284,199
Spring tooth	5,414	98,699	6,690	152,647
Harrow parts and attachments .....	...	8,699	...	16,383
Hoes, horse-drawn	1,053	12,601	803	10,023
Land rollers, packers and soil pulverizers	585	15,451	1,403	38,083
Ploughs - Mould board, horse drawn -				
Walking, single furrow	21,234	277,839	56,916	545,674
Walking, two furrow and larger	1,737	64,465	1,144	45,787
Sulky, single furrow	360	17,706	452	22,542
Gang, two furrow and larger	2,176	108,094	2,029	94,313
Tractor drawn, all types	9,828	853,006	17,441	1,595,730
Disc - horse drawn, all types	573	83,291	797	53,469
Disc - tractor drawn, all types	537	85,864	2,346	369,434
All other (breakers, etc.)	162	11,754	369	29,292
Plough parts and attachments .....	...	506	...	9,747
One-way discs, harrow ploughs, and tiller combines ..	3,525	642,256	4,770	934,238
Scufflers	9,656	66,849	11,791	109,097
Weeders	1,535	107,876	1,567	89,422
Planting and seeding machines -				
Fertilizer sowers	862	67,751	595	48,463
Seed drills, press and wheel	3,261	525,332	7,536	957,443
Planters, corn	2,312	119,121	2,844	85,949
Harvesting machines -				
Binders, corn and cotton	360	61,566	220	36,666
Binders, grain - Horse-drawn	8,794	1,672,756	12,431	2,332,455
Tractor-drawn	1,122	322,337	866	314,662
Threshers and reaper-thresher combines	3,031	2,624,124	3,055	2,641,121
Thresher parts .....	...	93,247	...	74,325
Other, including pick-ups, harvester stackers, swathers and push harvesters .....	...	107,332	...	130,745
Haying machines -				
Hay loaders	1,112	95,287	1,290	105,618
Hay rakes - Dump	4,659	162,514	4,881	153,334
Side, including combination side rakes and tedders	265	22,916	571	40,819

Table 12 - PRODUCTS MADE, 1939 and 1940 (Concluded)

	1 9 3 9		1 9 4 0	
	Number	Selling value at works \$	Number	Selling value at works \$
Haying machines (Concluded) -				
Mowers, horse and tractor-drawn	8,242	580,793	8,687	644,714
Other, including hay carriers, hay forks, hay tedders and hay presses .....	...	14,138	...	17,228
Other farm implements -				
Barn and stable equipment .....	...	57,700	...	66,550
Corn shellers	624	5,404	406	7,293
Cream separators	5,164	361,216	5,612	512,720
Ensilage and straw and stalk cutters .....	...	58,628	237	35,818
Eveners	6,033	8,322	6,132	9,635
Fanning mills and grain cleaners .....	...	158,003	...	200,197
Grain grinders	3,193	166,955	5,514	171,928
Hammer mills	591	68,747	670	74,774
Fertilizer spreaders	3,077	324,659	3,941	452,043
Wagon potato diggers	89	9,026	206	24,178
Pulpers and slicers	573	9,922	662	12,543
Sleighs, complete	761	52,133	630	44,541
Sprayers, hand	1,165	23,999	1,608	47,030
Sprayers, power	238	49,127	150	45,010
Wagons, wagon boxes and gears .....	...	92,101	...	110,858
Wheelbarrows	4,002	22,459	5,027	24,356
Farm implements and machinery, not elsewhere specified	...	443,113	...	684,747
Parts and accessories for farm implements and machinery	...	1,956,865	...	2,401,150
Amount received for custom work and repairs .....	...	1,668,537	...	2,841,930
All other products (x) .....	...	785,116	...	1,881,338
TOTAL .....	...	16,035,223	...	22,553,459

(x) Includes stoves, washing machines, creamery equipment, warehouse trucks, metal stampings, etc.

Table 13 - IMPORTS OF FARM IMPLEMENTS AND MACHINERY, 1939 and 1940

Items	1 9 3 9		1 9 4 0	
	Quantity Number	Value \$	Quantity Number	Value \$
Cream separators, steel bowls for .....	...	859	...	594
Cream separators, and complete parts, not elsewhere specified	25,346	643,505	16,478	549,872
Milk classifiers and complete parts .....	...	6,372	...	3,992
Milking machines and attachments therefor, centri- fugal machines for testing butter fat, milk or cream, and complete parts .....	...	105,951	...	179,048
Pasteurizers for dairy purposes, and complete parts..	176	124,321	117	98,064
Power churns, power milk coolers, power butter print- ers, etc. ....	...	210,454	...	141,503
Forks, pronged	2,677	21,209	1,696	15,279
Harvesters, self-binding or not, and parts	1,822	701,193	1,405	596,364
Hay loaders and parts	156	17,051	183	20,008
Hay tedders and parts	23	1,787	53	5,299
Mowing machines and parts	702	89,633	1,079	135,145
Potato diggers, planters and parts	273	36,677	729	85,220
Rakes, horse, and parts	442	26,296	395	28,437
Rakes, n.o.p. dozen	5,818	14,203	4,847	20,251
Reapers and parts	57	13,035	...	10,174
Scythes	1,851	13,517	840	7,730
Sickles or reaping hooks	1,336	4,263	1,505	4,650
Cultivators, horse hoes, scufflers, weeders and parts	...	166,173	...	338,892
Drills, seed, garden seeders and parts .....	...	197,628	...	324,654
Harrow, disc, and parts .....	...	76,685	...	89,807
Harrow, and parts, other .....	...	68,444	...	86,764

Table 13 - IMPORTS INTO CANADA OF FARM IMPLEMENTS AND MACHINERY, 1939 and 1940 - (Concluded)

Items	1 9 3 9		1 9 4 0	
	Quantity Number	Value \$	Quantity Number	Value \$
Hoes	1,802	7,044	1,199	3,977
Ploughs, disc, and parts .....	...	113,257	...	240,941
Ploughs and parts, other .....	...	434,037	...	1,044,530
Rollers, farm, field, lawn or garden, and soil pack- ers and parts	460	6,105	332	4,432
Fanning mills, pea viners and corn husking machines and parts	157	37,231	192	69,100
Harvesters in combination with threshing machine separators and complete parts	1,331	1,317,545	3,420	2,995,063
Threshing machine separators	520	393,389	229	184,606
Threshing machine separators, parts of, including wind stackers, baggers, weighers, and self-feeders thereof, and complete parts .....	...	168,191	...	189,285
Apparatus especially designed for sterilizing bulbs; pressure testing apparatus for determining maturity of fruit, and parts .....	...	99	...	24
Equipment for generating electric power for farm purposes only, viz., engine gas tank, generator, storage battery and switchboard, and complete parts	...	115,735	...	62,991
Fodder, feed or ensilage cutters and parts	456	103,163	756	135,386
Fruit and vegetable grading, washing and wiping machines and combination bagging and weighing machines, and complete parts .....	...	31,494	...	42,938
Grain crushers and grain or hay grinders and parts..	376	40,985	787	93,866
Hay presses and parts	42	14,561	29	13,637
Knives, edging	304	1,169	139	691
Knives, hay or straw .....	...	...	...	209
Manure spreaders and parts	331	45,277	415	63,651
Post-hole diggers and parts	1,307	2,507	1,417	2,802
Spades and shovels of iron and steel, other.. dozen.	9,212	21,736	8,344	18,573
Spraying and dusting machines and parts, including hand-sprayers and parts .....	...	282,748	...	243,540
Stumping machines and complete parts thereof	2	405	2	257
Traction ditching machines (not being ploughs) for use in ditching for tile drains on farms, valued by retail at place of production when new at not more than \$5,000 each, and complete parts	2	14,042	8	47,113
Traction engines, internal combustion, for farm pur- poses, valued at not more than \$1,400 each	14,684	11,451,160	23,558	17,061,064
Complete parts of traction engines, internal combus- tion for farm purposes, valued at not more than \$1,400 each, and automobile traction attachments and parts .....	...	3,551,441	...	5,175,737
Windmills and complete parts therefor, not including shafting .....	...	97,525	...	88,418
Pruning hooks, shears, animal dehorning instruments and all other agricultural implements, not elsewhere provided for, and parts .....	...	126,405	...	148,819
TOTAL .....	...	20,917,487	...	30,673,217

Table 14 - EXPORTS OF FARM IMPLEMENTS AND MACHINERY FROM CANADA, 1939 and 1940

	1 9 3 9		1 9 4 0	
	Quantity	Value	Quantity	Value
	Number	\$	Number	\$
(a) EXPORTS				
Cream separators and parts .....	...	15,668	...	23,407
Milking machines and parts .....	...	239,762	...	377,077
Harvesters and binders	3,062	564,588	6,808	1,448,633
Hay rakes	658	24,529	795	29,813
Mowing machines and reapers	1,575	122,053	2,043	177,581
Reaper-threshers	1,134	1,310,564	737	940,018
Cultivators	7,580	121,657	12,344	340,905
Drills	2,630	353,362	3,652	500,604
Harrows, disc, and parts .....	...	159,803	...	247,324
Harrows and parts, other .....	...	46,715	...	96,217
Ploughs, disc, and parts .....	...	278,834	...	243,535
Ploughs, and parts, other .....	...	1,585,001	...	3,048,910
Seeders	2,245	109,258	2,485	52,277
Threshing machine separators and parts .....	...	394,292	...	127,329
Garden and farm tools .....	...	186,660	...	155,597
Spades and shovels and parts	dozen. 20,582	148,785	24,788	180,262
Agricultural implement attachments .....	...	69,004	...	73,390
Other farm implements and machines .....	...	215,564	...	319,081
Other parts for farm implements and machines ..	...	1,028,585	...	1,155,496
TOTAL .....	...	6,974,684	...	9,537,256
(b) RE-EXPORTS				
Farm implements and parts .....	...	53,176	...	72,104

Table 15 - PRODUCTION OF PLOUGHS IN CANADA, IMPORTS AND EXPORTS, 1935-1940 (including some ploughs made in other industries)

		1935	1936	1937	1938	1939	1940
PRODUCTION (x)	No.	38,091	58,105	61,782	57,150	37,823	81,494
(Ploughs)	\$	911,756	1,171,338	1,782,956	1,848,897	1,532,509	2,746,247
IMPORTS							
(Ploughs and parts)	\$	58,872	225,527	572,690	607,222	547,294	1,285,271
EXPORTS							
(Ploughs and parts)	\$	1,161,907	1,509,947	2,729,103	1,707,353	1,863,835	3,292,445

(x) Not including harrow-ploughs, one-way discs or tiller-combines.

Table 16 - PRODUCTION OF MOWERS IN CANADA, IMPORTS AND EXPORTS, 1935-1940

		1935	1936	1937	1938	1939	1940
PRODUCTION	No.	11,859	11,033	11,320	11,128	8,242	8,687
(Hay mowers)	\$	716,026	691,458	740,567	782,843	580,793	644,714
IMPORTS	No.	792	803	826	977	702	1,079
(Mowing machines and parts) \$		48,582	76,315	85,922	118,216	89,633	135,145
EXPORTS	No.	4,310	3,213	2,870	2,821	1,575	2,043
(Mowing machines)	\$	263,126	198,062	196,937	230,852	122,053	177,581

Table 17 - PRODUCTION OF HARROWS IN CANADA, IMPORTS AND EXPORTS, 1935-1940 (including some harrows made in other industries)

		1935	1936	1937	1938	1939	1940
PRODUCTION (x)	No.	30,286	33,526	43,767	59,876	28,755	37,955
(Harrows and sections) ... \$		348,643	422,781	668,571	687,520	541,738	1,099,757
IMPORTS	\$	46,648	52,093	116,724	142,780	145,129	176,571
(Harrows and parts)							
EXPORTS	\$	134,439	161,948	337,645	209,819	206,518	343,541
(Harrows and parts)							

(x) Not including harrow-ploughs, tiller-combines, or one-way discs.

Table 18 - PRODUCTION OF GRAIN-BINDERS IN CANADA, IMPORTS AND EXPORTS, 1935-1940

		1935	1936	1937	1938	1939	1940
PRODUCTION	No.	16,177	15,519	9,535	15,349	9,916	13,297
(Grain binders)	\$	2,403,099	2,481,072	1,667,534	2,860,662	1,995,093	2,546,507
IMPORTS	No.	953	655	1,186	2,638	1,822	1,405
(Harvesters, self-binding or not)	\$	175,659	215,492	344,278	767,571	701,193	596,364
EXPORTS	No.	3,580	3,881	5,335	4,084	3,062	6,808
(Harvesters and binders). \$	\$	640,308	706,008	986,796	880,646	564,588	1,448,633

Table 19 - PRODUCTION OF THRESHERS AND REAPER-THRESHERS IN CANADA, IMPORTS AND EXPORTS, 1935-1940 (including some threshers made in other industries)

		1935	1936	1937	1938	1939	1940
PRODUCTION	No.	1,482	1,078	2,061	3,165	3,049	3,035
(Threshers and reaper-threshers) \$	\$	1,104,676	884,944	1,806,295	2,529,486	2,647,764	2,715,715
IMPORTS	No.	16	268	310	1,282	1,851	3,649
(Threshing machine separators; and harvesters in combination with threshing machine separators)	\$	10,218	317,639	354,850	1,280,501	1,710,934	3,179,689
EXPORTS	\$	1,125,581	806,683	1,499,946	1,797,146	1,704,856	1,067,347
(Reaper-threshers and threshing machine separators and parts)							

Table 20 - PRODUCTION OF SEED DRILLS IN CANADA, IMPORTS AND EXPORTS, 1935-1940

		1935	1936	1937	1938	1939	1940
PRODUCTION	No.	4,461	7,358	6,664	9,568	5,530	7,536
	\$	519,125	964,582	806,115	1,450,079	635,795	957,443
IMPORTS	\$	33,426	108,145	164,512	233,219	197,628	324,654
(Seed drills, garden seeders and parts)							
EXPORTS	No.	1,638	2,120	3,727	1,699	2,630	3,652
(Drills)	\$	217,854	275,599	547,891	248,897	353,562	500,604

Table 21 - PRODUCTION IN CANADA, IMPORTS AND EXPORTS OF CREAM SEPARATORS, 1935-1940 (including production in other industries)

		1935	1936	1937	1938	1939	1940
PRODUCTION	No.	12,107	10,902	10,893	11,387	5,520	5,946
(Cream separators)	\$	791,346	710,003	676,976	717,408	392,211	332,679
IMPORTS	No.	11,299	17,077	22,920	18,049	25,346	16,478
(Cream separators and parts)	\$	304,946	414,709	563,557	493,855	643,505	549,872
EXPORTS	\$	66,154	97,863	68,710	56,964	15,668	23,407
(Cream separators and parts)							

Table 22 - PRODUCTION OF ONE-WAY DISCS, HARROW-PLOUGHS AND TILLER-COMBINES, 1933-1940

Year	Number	Selling value at works
		\$
1933	731	105,400
1934	1,228	197,967
1935	2,762	440,464
1936	4,455	778,718
1937	7,639	999,086
1938	3,971	730,006
1939	3,525	642,256
1940	4,770	934,238

Table 23 - PRODUCTION OF CULTIVATORS IN CANADA, 1932-1940 (From all industries)

Year	Number	Selling value at works
1932	1,223	86,301
1933	939	44,128
1934	3,358	187,339
1935	6,345	388,404
1936	5,683	376,531
1937	7,842	380,253
1938	9,238	667,996
1939	5,884	410,226
1940	9,980	585,776

Table 24 - PRODUCTION OF SCUFFLERS, WEEDERS AND CORN PLANTERS, 1932 - 1940

Years	Scufflers		Weeders		Corn planters	
	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works
1932	1,908	12,486	62	3,846	12	392
1933	3,166	20,051	353	14,841	125	2,301
1934	8,340	52,528	546	28,090	1,007	27,856
1935	11,073	70,098	189	11,729	2,391	83,559
1936	11,216	71,149	1,150	63,306	2,586	96,922
1937	17,643	115,084	1,994	110,309	3,833	119,265
1938	15,186	113,795	1,987	129,264	4,220	232,266
1939	9,656	66,849	1,535	107,876	2,298	117,119
1940	11,791	109,097	1,567	89,422	2,844	85,959

Table 25 - PRODUCTION OF HAY LOADERS AND HAY RAKES, 1932-1940

Years	Hay loaders		Hay rakes, including combination side rakes and tedders	
	Number	Selling value at works	Number	Selling value at works
1932	357	24,733	1,218	36,671
1933	230	13,541	1,634	40,881
1934	339	24,273	4,267	129,224
1935	524	36,840	5,502	152,475
1936	1,259	91,741	6,194	204,688
1937	1,254	93,662	6,549	213,175
1938	1,840	145,879	7,078	242,392
1939	1,122	95,287	4,924	185,430
1940	1,290	105,618	5,502	196,415

Table 26 - PRODUCTION OF MANURE SPREADERS, 1932-1940

Year	Number	Selling value at works
1932	504	55,860
1933	498	43,564
1934	1,488	159,631
1935	1,738	185,368
1936	3,089	238,065
1937	2,949	337,589
1938	2,982	358,137
1939	3,077	324,659
1940	3,941	452,043

Table 27 - SUMMARY OF FARM IMPLEMENT AND EQUIPMENT SALES IN CANADA, 1939 and 1940 (Number of units and value of sales at wholesale prices, by main types)

Type	1 9 3 9		No. of units	Per cent change	1 9 4 0	
	No. of units	Value			Amount	Value	Per cent change
All types, Total .....	...	34,060,447	...	...	47,595,154	+ 39.7
All types, Itemized Total	191,497	32,719,849	238,595	+ 24.6	45,306,431	+ 38.5
Planting and seeding machinery ...	7,673	1,357,739	11,753	+ 53.2	2,270,583	+ 67.2
Tillage machinery	65,161	4,346,495	82,739	+ 27.0	6,356,932	+ 46.5
Haying machinery	12,878	1,096,735	16,882	+ 29.5	1,497,779	+ 36.6
Harvesting machinery	13,830	6,776,385	15,916	+ 15.1	9,906,064	+ 46.2
Tractors and engines	16,956	15,412,028	25,664	+ 51.4	21,299,531	+ 38.2
All other types, itemized	74,999	3,730,467	85,841	+ 14.5	3,975,542	+ 6.6
All other types, not itemized ....	...	1,340,598	...	...	2,288,723	+ 70.7

Table 28 - PROVINCIAL DISTRIBUTION OF FARM IMPLEMENT AND EQUIPMENT SALES, 1939 and 1940

Province	1 9 3 9		Amount	% of Canada total	1 9 4 0	
	Amount	% of Canada total			Amount	% of Canada total	% Change
CANADA	34,060,447	100.0	47,595,154	100.0	+ 39.7	
Maritimes	1,083,168	3.2	1,451,111	3.0	+ 34.0	
Quebec	2,587,063	7.6	3,551,475	7.5	+ 37.3	
Ontario	7,619,793	22.4	10,795,578	22.7	+ 41.7	
Manitoba	4,773,413	14.0	5,531,261	11.6	+ 15.9	
Saskatchewan	8,379,797	24.6	15,052,306	31.6	+ 79.6	
Alberta	9,217,459	27.0	10,500,780	22.1	+ 13.9	
British Columbia	399,749	1.2	712,643	1.5	+ 78.3	

NOTE: In a number of instances, figures for 1939 have been changed from those shown in the report for that year to allow for revisions in data supplied by individual firms.

LIST OF FIRMS INCLUDED IN THE FARM IMPLEMENTS AND MACHINERY INDUSTRY IN CANADA, 1940

NOTE: This Directory is not intended to be a complete list of the manufacturers of farm implements and machinery. It is merely a list of the firms included in this industry which covers all concerns that made farm implements and machinery as their MAIN products in 1940.

Names of Firms

Location of Plants

PRINCE EDWARD ISLAND -

Hall Manufacturing & Cold Storage Co. Ltd.

Summerside

QUEBEC -

Banville, Odilon, & Fils

St. Octave de Méville

Desjardins, Ltée

St. André de Kamouraska

Dion et Frère

St. Thérèse de Blainville

La Cie Jutras, Ltée

Victoriaville

Moody, Matthew, & Sons Co.

Terrebonne

LIST OF FIRMS INCLUDED IN THE FARM IMPLEMENTS AND MACHINERY INDUSTRY IN CANADA, 1940
(Concluded)

<u>Names of Firms</u>	<u>Location of Plants</u>
<u>ONTARIO -</u>	
Canadian Potato Machinery Co. Ltd.	Jarvis Street, Galt
Cockram, W., & Co.	Woodstock
Cockshutt Plow Co. Ltd.	66 Mohawk Street, Brantford
Deere, John, Plow Co. Ltd.	Welland
De Laval Company Ltd.	113 Park Street, Peterborough
Ebersol, John R.	Milverton
Ernst Bros. Co. Ltd.	Mount Forest
Erie Iron Works Ltd.	116 Talbot Street, St. Thomas
Ferguson Thresher Co.	Maxville
Floury-Bissell Ltd.	Elora
Frost and Wood Co. Ltd.	Smiths Falls
Garden Equipment Co.	Tecumseh
Goodison, John, Thresher Co. Ltd.	Clifford Street, Sarnia
International Harvester Co. of Canada, Ltd.	Sherman Avenue North, Hamilton
Koblinger Bros.	Mildmay
Lassey-Harris Company Ltd.	915 King Street W., Toronto; Woodstock and Brantford
McCabe, Limited	West Street, Orillia
McFrew Machinery Co. Ltd.	Renfrew
Spramotor Ltd.	1105 York Street, London
Watson, John Mfg. Co. Ltd.	Ayr
White, George, & Sons Co. Ltd.	Cabell Street, London
Wood, W. C., Co. Ltd.	2480 Dundas Street West, Toronto
<u>MANITOBA -</u>	
Gregg Mfg. Co. Ltd.	601 Bowman Avenue, Winnipeg
Hart-Emerson Company Ltd.	1425 Whyte Avenue, Winnipeg
Monarch Machinery Co. Ltd.	889 Erin Street, Winnipeg
Standard Gas Engine Works	Morden
<u>ALBERTA -</u>	
Samson Rotary Rod Weeder Ltd.	1019 .. 30th Avenue West, Calgary

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