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CANADA

DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

MINING, METALLURGICAL & CHEMICAL BRANCH



**THE FARM IMPLEMENTS AND
MACHINERY INDUSTRY
IN
CANADA
1939**



OTTAWA
1941

Price 25 cents

DEPARTMENT OF TRADE AND COMMERCE
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MINING, METALLURGICAL AND CHEMICAL BRANCH
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ANNUAL INDUSTRIAL REPORT

IRON AND STEEL AND THEIR PRODUCTS GROUP

THE FARM IMPLEMENTS AND MACHINERY INDUSTRY, 1939

Production by establishments in the farm implements and machinery industry was 25 per cent lower in value in 1939 than in 1938 and 16 per cent lower than in 1937. Actual values (at factory prices) for these years were as follows: \$16,035,223 in 1939, \$21,299,185 in 1938 and \$18,961,394 in 1937.

Imports of agricultural machinery increased to \$20,917,487 in 1939 from \$20,319,626 in 1938, a gain of 3 per cent. The value of farm tractors and parts was slightly greater at \$15,002,601 compared with \$14,813,014, and other farm equipment advanced to \$5,914,886 from \$5,500,612.

Exports and re-exports of farm implements were appraised at \$7,027,860 in 1939, a decline of about 11 per cent from the \$7,871,931 reported for 1938.

Thirty-six factories were included in the farm implements industry in 1939, there being 25 works in Ontario, 5 in Quebec, 4 in Manitoba and 1 each in Alberta and Prince Edward Island. The works in Ontario accounted for 95 per cent of the total output.

The industry employed an average of 5,306 workers during the year; the 1,047 salaried employees were paid \$1,644,601 and the 4,259 wage-earners, \$4,380,119. The total of \$6,024,720 for salaries and wages was 20 per cent less than the amount distributed to the 6,458 employees in 1938.

Capital employed in manufacturing operations at the end of the year amounted to \$58,067,218, including \$15,226,732 as the value of land, buildings and factory equipment, \$17,990,669 as the inventory value of materials and products on hand and \$24,849,817 as operating capital. The value of buildings, etc. was \$1.3 millions lower than in 1938, operating capital was down \$1 million, and inventories declined \$3 millions.

Sales in Canada of new farm implements and equipment were valued at \$33,927,654 (at wholesale prices to dealers) in 1939 or about 6.3 per cent less than in 1938 when the corresponding value was \$36,213,382. 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 - 1939

Years	Number of plants	Capital employed	Average number of em- ployees	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	98,684,823	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	3,597,534	11,175,404
1932	47	73,576,979	2,758	3,097,975	262,571	1,907,768	5,510,078
1933	40	63,903,380	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	58,067,218	5,306	6,024,720	449,158	6,672,529	16,035,223
% Change 1939 from 1938 .....	...	- 8.9	- 17.9	- 19.8	- 15.8	- 30.6	- 24.7

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.

Table 2 - INDEX NUMBERS OF PRODUCTION OF FARM IMPLEMENTS AND MACHINERY, 1923 - 1939

Years	INDEX NUMBERS		Years	INDEX NUMBERS	
	Value(x)	Volume		Value(x)	Volume
1923	68	67.0	1931	29	40.8
1924	69	60.8	1932	14	24.8
1925	65	67.7	1933	14	29.1
1926	100	100.0	1934	23	41.1
1927	112	112.2	1935	36	58.5
1928	108	106.8	1936	42	65.5
1929	106	98.4	1937	50	78.6
1930	70	70.4	1938	56	79.0
			1939	42	57.7

(x) Gross selling value at works.

Table 3 - APPARENT CONSUMPTION OF FARM IMPLEMENTS AND MACHINERY IN CANADA, CALENDAR YEARS 1920 - 1939

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	25,123,201	12,197,994	61,226,509
1921	38,947,968	9,199,653	7,615,825	40,531,796
1922	18,240,581	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	11,234,839	12,374,176	23,630,879
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	39,893,490	14,560,412	66,532,919
1929	40,659,479	31,845,326	20,118,978	52,585,827
1930	26,902,139	21,944,231	10,455,973	36,410,397
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	6,068,155	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	33,746,880
1939	16,035,223	20,917,487	7,027,860	29,924,860

(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 counterbalance each other.

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

Table 4 - PRINCIPAL STATISTICS, BY PROVINCES, 1938 and 1939

Provinces	Number of plants	Capital employed	Average number of em- ployees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross sell- ing value of products at works
							\$
<u>1938</u>							
Quebec	5	429,863	176	112,928	7,470	117,641	334,852
Ontario	27	62,727,807	6,151	7,260,024	515,657	9,284,995	20,417,081
Prince Edward Island	1)						
Manitoba	1)	81,881	13	10,943	839	6,734	28,052
Alberta	4	522,093	118	125,811	9,397	202,410	419,200
CANADA	38	63,761,644	6,458	7,509,706	533,363	9,611,780	21,299,185
<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)						
Alberta	1)	87,270	14	11,237	998	6,662	28,247
Manitoba	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

Table 5 - CAPITAL EMPLOYED, BY CLASSES AND BY PROVINCES, 1938 and 1939 (On the last day of the year)

Provinces	Present value of	Inventory value of	Operating	TOTAL CAPITAL EMPLOYED
	lands, buildings, fixtures, machinery and tools	materials on hand, stocks in process and finished products on hand	capital (cash, bills and accounts re- ceivable, etc.)	
	\$	\$	\$	\$
<u>1938</u>				
Quebec	90,801	94,667	244,395	429,865
Ontario	16,695,668	20,604,420	25,427,719	62,727,807
Manitoba	175,178	274,505	72,410	522,093
Other provinces	36,591	30,075	15,215	81,881
CANADA	16,998,238	21,003,667	25,759,739	63,761,644
<u>1939</u>				
Quebec	97,595	96,230	318,811	512,636
Ontario	14,910,654	17,633,406	24,393,597	56,937,657
Manitoba	180,282	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

Table 6 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1938 and 1939

Provinces	AVERAGE NUMBER OF EMPLOYEES					Salaries	Wages	TOTAL SALARIES and WAGES
	On salaries		On wages		TOTAL			
	Male	Female	Male	Female				
					\$	\$	\$	
<u>1938</u>								
Quebec	28	...	148	...	176	36,729	76,199	112,928
Ontario	804	232	5,066	49	6,151	1,586,267	5,673,757	7,260,024
Manitoba	5	2	6	...	15	6,165	4,778	10,943
Other provinces	23	6	68	1	118	51,502	74,509	125,811
CANADA	860	240	5,308	50	6,458	1,680,663	5,829,043	7,509,706
<u>1939</u>								
Quebec	33	...	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	4,380,119	6,024,720

Table 7 - WAGE-EARNERS, BY MONTHS, 1938 and 1939 (On the last day of each month or nearest work day)

Months	1938			1939		
	Male	Female	TOTAL	Male	Female	TOTAL
January	6,073	56	6,129	4,562	48	4,610
February	6,183	78	6,261	4,648	48	4,696
March	5,980	70	6,050	4,552	46	4,598
April	5,769	50	5,819	4,462	44	4,506
May	5,417	45	5,462	4,215	41	4,256
June	5,413	40	5,453	4,100	27	4,127
July	5,226	40	5,266	3,937	28	3,965
August	4,621	30	4,651	3,388	23	3,421
September	4,076	19	4,095	3,637	36	3,673
October	4,596	39	4,635	4,317	43	4,360
November	5,223	60	5,283	4,544	40	4,584
December	5,109	61	5,170	4,237	48	4,285
AVERAGE	5,308	50	5,358	4,219	40	4,259

Table 8 - REGULAR HOURS WORKED PER WEEK BY WAGE-EARNERS, 1938 (In one week of normal employment; overtime not included)

Regular hours worked per week	Number of wage-earners	Per cent of total	Regular hours worked per week	Number of wage-earners	Per cent of total
30 hours or less ...	46	1.0	51 - 54 hours	238	4.9
31 - 43 hours	407	8.5	55 hours	72	1.5
44 hours	418	8.7	56 - 64 hours	273	5.7
45 - 47 hours	190	4.0	65 hours and over ...	26	0.5
48 hours	2,786	58.0	TOTAL	4,803	100.0
49 - 50 hours	347	7.2	Total wages paid in selected week		\$ 127,560

Table 9 - FUEL AND ELECTRICITY USED, 1938 and 1939

Kinds	Unit of measure	1 9 3 8		1 9 3 9	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Bituminous coal - Canadian	short ton	807	6,947	815	6,181
Imported	short ton	30,454	161,270	29,435	151,380
Anthracite coal	short ton	743	5,489	725	5,410
Coke	short ton	302	3,007	193	2,045
Gasoline	Imp. gal.	25,464	4,229	23,275	4,477
Kerosene	Imp. gal.	1,390	238	730	118
Fuel oil	Imp. gal.	1,614,606	120,887	1,087,838	79,036
Wood	cords	731	2,700	604	2,720
Gas - Manufactured	M cu. ft.	196,015	56,247	113,282	35,271
Natural	M cu. ft.	7,983	4,421	6,656	3,806
Other fuel	xxx	...	200	...	110
Electricity	K. W. H.	17,176,693	167,728	14,921,610	158,585
TOTAL .....	\$	...	533,363	...	449,158

Table 10 - POWER EQUIPMENT, 1938 and 1939

	Ordinarily in use		In reserve or idle	
	Number of units	Total horse power rating	Number of units	Total horse power rating
<u>1 9 3 8</u>				
Steam engines and steam turbines	16	2,610	4	775
Diesel engines .....	...	...	1	6
Gasoline, gas and oil engines (except Diesel)	6	44	1	10
Hydraulic turbines or water wheels	3	116	...	...
Total Primary Equipment	25	2,770	6	791
Electric motors run by purchased power	1,424	17,418	75	1,589
TOTAL	1,449	20,188	81	2,380
Stationary boilers	45	5,519	3	278
<u>1 9 3 9</u>				
Steam engines and steam turbines	15	2,535	3	525
Diesel engines .....	...	...	...	...
Gasoline, gas and oil engines (except Diesel)	7	58	1	10
Hydraulic turbines or water wheels	1	45	...	...
Total Primary Equipment	23	2,638	4	533
Electric motors run by purchased power	1,390	17,103	79	1,670
TOTAL	1,413	19,741	83	2,205
Stationary boilers	42	5,527	2	200

Table 11 - MATERIALS USED IN MANUFACTURING, 1938 and 1939

Materials	Unit of measure	1 9 3 8		1 9 3 9	
		Quantity	Total cost at works	Quantity	Total cost at works
		\$		\$	
Iron -					
Pig iron, all grades	long ton	14,289	357,253	8,871	208,313
Iron castings of all kinds purchased	short ton	5,315	605,222	3,866	466,752
Steel, hot or cold rolled (except special alloy steel) -					
Steel castings	short ton	163	21,604	100	15,040
Bars	short ton	36,733	2,078,382	24,476	1,425,804
Forgings	short ton	828	55,534	339	17,909
Plates	short ton	985	68,762	386	24,754
Shafting	short ton	632	65,981	503	45,511
Sheets, plain	short ton	4,195	316,254	1,188	93,513
Sheets, galvanized	short ton	2,317	186,211	3,040	226,171
Strip	short ton	1,709	105,413	869	50,273
Stampings	short ton	...	234,395	898	116,981
Structural shapes (angles, channels, etc.)	short ton	1,793	194,653	1,093	57,708
Wire	short ton	289	20,857	159	15,414
Scrap iron and steel of all kinds	short ton	9,426	154,143	12,866	182,889
Pipe, tubing and fittings of iron and steel	xxx	...	102,537	...	75,010
Other iron and steel	xxx	...	61,236	...	10,246
Alloy steel -					
Carbon and alloy tool steels, including					
high speed	short ton	45	27,668	60	36,656
Stainless steels	short ton	16	15,577	20	20,003
Other alloy steels	short ton	...	3,947	...	2,809
Ferro-alloys	short ton	...	6,883	18	5,117
Non-ferrous metals (including scrap) -					
Aluminium	pound	13,839	3,325	19,446	3,951
Brass and bronze	pound	266,870	39,846	90,216	16,446
Copper	pound	41,030	10,395	213,781	28,876
Lead	pound	16,843	1,509	20,244	1,017
Nickel	pound	6,755	1,671	12,251	3,052
Tin	pound	26,482	12,953	24,308	11,581
Zinc	pound	123,192	7,672	23,622	1,157
Babbitt metals and solder	pound	69,805	15,710	46,704	11,404
Other metals .....	\$	...	643	...	5,444
Other materials and supplies -					
Parts for machines or vehicles .....	\$	...	1,670,907	...	1,332,209
Bolts, nuts, rivets and screws .....	\$	...	191,790	...	155,710
Electrical goods, including motors .....	\$	...	74,309	...	58,697
Paints, oils and varnishes .....	\$	...	219,537	...	165,342
Wheels .....	\$	...	257,160	...	155,108
Cotton, duck and other textiles .....	\$	...	180,316	...	236,573
Foundry coke (used in cupola; not for heat or power)	short ton	6,355	80,054	4,450	51,362
Moulding sands	short ton	3,307	15,023	2,773	10,204
Core sands	short ton	2,514	7,167	1,877	4,661
Plumbago and graphite	pound	7,631	601	8,860	736
Other foundry facings	pound	223,114	2,837	...	3,806
Patterns and models .....	\$	...	10,299	...	13,297
Lumber	M ft. b. m.	13,366	699,401	9,687	446,754
Firebrick	number	253,365	18,958	91,884	7,337
Fireclay	short ton	291	2,166	704	7,162
Cupola blocks	number	...	1,243	...	810
Core oil	Imp. gal.	15,391	10,166	10,551	6,085
Core compounds .....	\$	...	7,382	...	6,401
Acetylene	cu. ft.	n o t	...	125,703	3,817
Oxygen	cu. ft.	a v a i l a b l e	...	146,810	2,098
Shipping containers .....	\$	...	19,578	...	22,581
All other materials and supplies .....	\$	...	1,366,650	...	803,930
TOTAL .....	\$	...	9,611,780	...	6,672,529

Table 12 - PRODUCTS MADE, 1938 and 1939

	1 9 3 8		1 9 3 9	
	Number	Selling value at works \$	Number	Selling value at works \$
Tillage Implements -				
Cultivators, corn	2,363	111,077	1,534	34,543
X Cultivators, other	6,716	552,619	4,222	372,183
Harrows - Disc (except one-way discs)	17,530	486,950	6,558	358,082
Spike tooth sections	14,857	72,716	16,128	64,243
Spring tooth	6,922	111,964	5,414	98,699
Harrow parts and attachments .....	...	13,849	...	8,699
Hoes, horse-drawn	1,600	18,649	1,053	12,601
Land rollers, packers and soil pulverizers	1,330	40,875	585	15,451
Ploughs - Mould board, horse drawn -				
Walking, single furrow	38,322	433,515	21,234	277,839
Walking, two furrow and larger	1,084	58,252	1,737	64,465
Sulky, single furrow	1,509	67,006	360	17,700
Gang, two furrow and larger	5,433	333,478	2,176	108,084
Mould board, tractor drawn, all types	6,645	584,250	9,828	853,025
Disc - horse drawn, all types	1,469	183,148	573	83,291
Disc - tractor drawn, all types	854	126,158	537	85,864
All other (breakers, etc.)	417	24,177	162	11,754
Plough parts and attachments .....	...	8,143	...	505
One-way discs, harrow ploughs, and tiller combines ..	3,971	730,006	3,525	642,256
Scufflers	15,186	113,795	9,656	66,849
X Weeders	1,987	129,264	1,535	107,876
Planting and Seeding Machines -				
Fertilizer sowers	943	67,495	862	67,731
Seed drills, press and wheel	9,568	1,450,079	3,261	525,332
Planters, corn	4,220	232,266	2,312	119,121
Harvesting Machines -				
Binders, corn and cotton	450	80,774	360	61,566
Binders, grain - Horse-drawn	13,546	2,320,080	8,794	1,672,756
Tractor-drawn	1,803	540,582	1,122	322,337
✓ Threshers and reaper-thresher combines	3,139	2,499,113	3,031	2,624,124
Thresher parts .....	...	108,916	...	93,247
Other, including pick-ups, harvester stackers, swathers and push harvesters .....	...	128,448	...	107,332
Haying Machines -				
Hay loaders	1,840	145,879	1,112	95,237
Hay rakes - Dump	6,720	211,600	4,659	162,514
Side, including combination side rakes and tedders	358	30,792	265	22,916
Mowers, horse and tractor-drawn	11,128	782,843	8,242	580,793
Other, including hay carriers, hay forks, hay tedders and hay presses .....	...	10,134	...	14,138
Other Farm Implements -				
Barn and stable equipment .....	...	94,200	...	57,700
Corn shellers	684	10,523	624	5,404
✓ Cream separators	10,887	696,047	5,164	361,216
✓ Ensilage and straw and stalk cutters	256	12,057	...	38,628
Eveners	4,690	5,642	6,033	8,322
Fanning mills and grain cleaners .....	...	182,207	...	158,003
Grain grinders .....	...	100,317	3,193	166,955
Hammer mills	390	49,885	591	68,747
Manure spreaders	2,982	358,137	3,077	324,659
Potato diggers	507	50,299	89	9,026
Pulpers and slicers	733	12,829	573	9,922
Sleighs, complete	784	37,570	761	32,133
Sprayers, hand	1,520	52,004	1,165	23,999
Sprayers, power	284	81,266	238	49,127
Wagons, wagon boxes and gears .....	...	161,511	...	92,101
Wheelbarrows	3,257	18,340	4,002	22,459

Table 12 - PRODUCTS MADE, 1938 and 1939 (Concluded)

	1 9 3 8		1 9 3 9	
	Number	Selling value at works	Number	Selling value at works
Farm implements and machinery, not elsewhere specified.	...	\$ 332,683	...	\$ 443,115
Parts and accessories for farm implements and machinery	...	3,262,554	...	1,956,865
Amount received for custom work and repairs	1,445,653	...	1,668,537
All other products (x)	1,526,569	...	785,116
TOTAL	21,299,185	...	16,035,223

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

Table 13 - IMPORTS INTO CANADA OF FARM IMPLEMENTS AND MACHINERY, 1938 and 1939

Items	1 9 3 8		1 9 3 9	
	Quantity Number	Value \$	Quantity Number	Value \$
Cream separators, steel bowls for .....	...	3,564	...	859
Cream separators, and complete parts, not elsewhere specified	18,049	490,291	25,346	643,505
Milk clarifiers and complete parts .....	...	13,157	...	6,872
Milking machines and attachments therefor, centrifugal machines for testing butter fat, milk or cream, and complete parts .....	...	70,912	...	105,931
Pasteurizers for dairy purposes, and complete parts ..	200	131,689	176	124,821
Power churns, power milk coolers, power butter printers, etc. ....	...	92,641	...	210,454
Forks, pronged	2,017	11,154	2,677	21,209
Harvesters, self-binding or not, and parts	2,638	767,571	1,822	701,193
Hay loaders and parts	80	9,172	156	17,051
Hay tedders and parts	5	614	23	1,787
Mowing machines and parts	977	118,216	702	89,633
Potato diggers, planters and parts	569	65,634	273	36,677
Rakes, horse, and parts	604	45,186	442	26,296
Rakes, n.o.p. dozen	4,517	9,409	5,818	14,203
Reapers and parts	16	9,183	57	13,035
Scythes	2,230	16,008	1,851	13,517
Sticks or reaping hooks	721	2,390	1,336	4,263
Cultivators, horse hoes, scufflers, weeders and parts.	...	258,767	...	166,173
Drills, seed, garden seeders and parts .....	...	233,219	...	197,628
Harrows, disc, and parts .....	...	48,984	...	76,685
Harrows and parts, other .....	...	93,796	...	68,444
Hoes	921	3,204	1,802	7,044
Ploughs, disc, and parts .....	...	66,851	...	113,257
Ploughs and parts, other .....	...	540,371	...	434,037
Rollers, farm, field, lawn or garden, and soil packers and parts	365	6,814	460	6,105
Fanning mills, pea viners and corn husking machines and parts	218	43,361	157	37,231
Harvesters in combination with threshing machine separators and complete parts	702	842,200	1,331	1,317,545
Threshing machine separators	580	438,301	520	393,389
Threshing machine separators, parts of, including wind stackers, baggers, weighers, and self-feeders thereof, and complete parts .....	...	157,315	...	168,191
Apparatus especially designed for sterilizing bulbs; pressure testing apparatus for determining maturity of fruit, and parts .....	...	9	...	99
Equipment for generating electric power for farm purposes only, viz., engine gas tank, generator, storage battery and switchboard, and complete parts .....	...	95,275	...	115,735
Modder, feed or ensilage cutters and parts	577	111,718	456	103,163
Fruit and vegetable grading, washing and wiping machines and combination bagging and weighing machines, and complete parts .....	...	41,683	...	31,494

Table 13 - IMPORTS INTO CANADA OF FARM IMPLEMENTS AND MACHINERY, 1938 and 1939 (Concluded)

Items	1 9 3 8		1 9 3 9	
	Quantity	Value	Quantity	Value
	Number	\$	Number	\$
Grain crushers and grain or hay grinders and parts	353	57,945	376	40,985
Hay presses and parts	23	14,036	42	14,561
Knives, edging	133	554	304	1,169
Knives, hay or straw	3	45	...	...
Manure spreaders and parts	527	63,658	331	45,277
Post-hole diggers and parts	1,357	2,589	1,307	2,507
Spades and shovels of iron and steel, other	8,014	17,300	9,212	21,750
Spraying and dusting machines and parts, including hand-sprayers and parts .....	...	225,863	...	282,748
Stumping machines and complete parts thereof	13	2,015	2	403
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 .....	...	7,566	2	14,042
Traction engines, internal combustion, for farm purposes, valued at not more than \$1,400 each	15,038	11,675,237	14,684	11,461,160
Complete parts of traction engines, internal combustion, for farm purposes, valued at not more than \$1,400 each, and automobile traction attachments and parts .....	...	3,145,717	...	3,551,441
Windmills and complete parts therefor, not including shafting .....	...	87,307	...	97,525
Pruning hooks, shears, animal dehorning instruments and all other agricultural implements, not elsewhere provided for, and parts .....	...	205,077	...	126,405
TOTAL .....	...	20,319,623	...	20,217,457

Table 14 - EXPORTS OF FARM IMPLEMENTS AND MACHINERY FROM CANADA, 1938 and 1939

	1 9 3 8		1 9 3 9	
	Quantity	Value	Quantity	Value
	Number	\$	Number	\$
(a) EXPORTS				
Cream separators and parts .....	...	56,964	...	15,368
Milking machines and parts .....	...	218,090	...	239,762
Harvesters and binders	4,084	880,646	3,062	564,588
Hay rakes	796	34,153	658	24,523
Mowing machines and reapers	2,821	230,852	1,575	122,053
Reaper-threshers	1,639	1,505,286	1,134	1,310,564
Cultivators	9,604	265,122	7,580	121,657
Drills	1,699	248,897	2,630	353,362
Harrows, disc, and parts .....	...	165,957	...	159,803
Harrows and parts, other .....	...	43,862	...	46,715
Ploughs, disc, and parts .....	...	471,497	...	278,834
Ploughs, and parts, other .....	...	1,235,856	...	1,585,001
Seeders	129	9,274	2,245	109,259
Threshing machine separators and parts .....	...	291,860	...	394,291
Garden and farm tools .....	...	148,602	...	186,660
Spades and shovels and parts	17,804	131,225	20,582	148,763
Agricultural implement attachments .....	...	...	...	69,004
Other farm implements and machines .....	...	568,765	...	215,563
Other parts for farm implements and machines .....	...	1,283,216	...	1,028,553
TOTAL	7,790,124	...	6,974,684

(b) RE-EXPORTS

Farm implements and parts	81,807	...	53,173
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Table 15 - IMPORTS INTO CANADA, EXPORTS AND RE-EXPORTS OF FARM IMPLEMENTS AND MACHINERY, BY PRINCIPAL COUNTRIES, 1938 and 1939

Countries of origin for imports or of destination for exports	I M P O R T S		EXPORTS AND RE-EXPORTS	
	1 9 3 8	1 9 3 9	1 9 3 8	1 9 3 9
	\$	\$	\$	\$
Argentina	647	...	2,076,074	1,219,289
Australia	2,379	3,585	298,297	228,804
Belgium	5,673	16,903	14,799	13,179
British South Africa	37,538	...	874,786	1,017,500
Chile .....	...	...	52,661	86,485
Denmark	6,845	6,252	3,355	4,372
Finland	8,426	29,608	24,271	23,939
France	1,829	888	94,521	68,393
French Africa	547	90	66,585	68,479
Germany	65,847	54,569	10,727	4,890
Great Britain	682,728	283,084	1,131,542	1,685,715
Irish Free State .....	...	...	5,717	22,120
Italy	1,828	...	6,351	...
Mexico .....	...	...	1,942	11,726
Morocco .....	...	...	31,353	30,788
New Zealand	493	285	260,106	163,859
Norway .....	...	...	33,487	42,200
Portuguese Africa .....	...	...	46,319	24,812
Sweden	292,018	407,738	68,825	56,005
United States	19,196,007	20,098,391	2,444,429	1,901,671
Uruguay .....	...	...	86,081	67,126
Other countries	16,821	16,094	239,703	288,528
TOTAL	20,319,626	20,917,487	7,871,931	7,027,860

Table 16 - PRODUCTION OF PLOUGHS IN CANADA, IMPORTS AND EXPORTS, 1935-1939 (including some ploughs made in other industries)

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

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

Table 17 - PRODUCTION OF MOWERS IN CANADA, IMPORTS AND EXPORTS, 1935-1939

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

Table 18 - PRODUCTION OF HARROWS IN CANADA, IMPORTS AND EXPORTS, 1935-1939 (including some harrows made in other industries)

	1935	1936	1937	1938	1939
PRODUCTION (x) No.	30,286	33,536	43,767	39,876	28,755
(Harrows and sections) \$	348,643	422,781	668,571	687,520	541,738
IMPORTS \$	46,648	52,093	116,724	142,780	145,129
(Harrows and parts)					
EXPORTS \$	134,439	161,948	337,645	209,919	206,518
(Harrows and parts)					

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

Table 19 - PRODUCTION OF GRAIN-BINDERS IN CANADA, IMPORTS AND EXPORTS, 1935-1939

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

Table 20 - PRODUCTION OF THRESHERS AND REAPER-THRESHERS IN CANADA, IMPORTS AND EXPORTS, 1935-1939 (Including some threshers made in other industries)

	1935	1936	1937	1938	1939
PRODUCTION No.	1,482	1,078	2,061	3,165	3,048
(Threshers and reaper- threshers) \$	1,104,676	884,944	1,806,295	2,529,486	2,647,764
IMPORTS No.	16	268	310	1,282	1,851
(threshing machine separators; and harvesters in combina- tion with threshing machine separators) \$	10,218	317,839	354,850	1,280,501	1,710,384
EXPORTS \$	1,125,561	806,633	1,489,948	1,797,145	1,704,833
(Reaper-threshers and thresh- ing machine separators and parts)					

Table 21 - PRODUCTION OF SEED DRILLS IN CANADA, IMPORTS AND EXPORTS, 1935-1939

	1935	1936	1937	1938	1939
PRODUCTION No.	4,481	7,358	6,664	9,568	5,530
..... \$	519,125	964,582	806,115	1,450,079	655,795
IMPORTS No.	...	...	...	...	...
(Seed drills, garden seeders and parts) \$	33,426	108,145	164,512	233,219	197,628
EXPORTS No.	1,638	2,120	3,727	1,699	2,630
(Drills) \$	217,854	275,599	547,891	248,897	353,562

Table 22 - PRODUCTION IN CANADA, IMPORTS AND EXPORTS OF CREAM SEPARATORS, 1935-1939 (Including production in other industries)

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

Table 23 - PRODUCTION OF ONE-WAY DISCS, HARROW-PLOUGHS AND TILLER-COMBINES, 1933-1939

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

Table 24 - PRODUCTION OF CULTIVATORS IN CANADA, 1932 - 1939 (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

Table 25 - PRODUCTION OF SCUFFLERS, WEEDERS AND CORN PLANTERS, 1932-1939

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	27,836
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	232,286
1939	9,656	66,849	1,535	107,876	2,298	117,119

Table 26 - PRODUCTION OF HAY LOADERS AND HAY RAKES, 1932-1939

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

Table 27 - PRODUCTION OF MANURE SPREADERS, 1932-1939

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

Table 28 - SUMMARY OF FARM IMPLEMENT AND EQUIPMENT SALES IN CANADA, 1938 and 1939 (Number of units and value of sales at wholesale prices, by main types)

Type	1 9 3 8		:	1 9 3 9		
	No. of units	Value		No. of units	Per cent change	Value
		\$			\$	
All Types, Total .....	...	36,213,382	...	...	33,927,654	6.5
All Types, Itemized Total	209,425	34,869,086	192,710	- 8.0	32,571,321	- 6.6
Planting and seeding machinery ...	9,733	1,855,368	7,675	- 21.1	1,358,115	- 26.0
Tillage machinery	74,338	4,561,801	66,173	- 11.0	4,343,041	- 4.8
Haying machinery	16,196	1,433,771	12,875	- 20.5	1,096,409	- 23.5
Harvesting machinery	17,542	7,096,632	13,776	- 21.5	6,729,353	- 5.2
Tractors and engines	16,814	15,972,334	16,996	/ 1.1	15,308,383	- 4.2
All other types, itemized	74,802	3,947,114	75,215	/ 0.6	3,736,020	- 5.4
All other types, not itemized ....	...	1,344,356	...	...	1,356,333	/ 0.9

Table 29 - PROVINCIAL DISTRIBUTION OF FARM IMPLEMENT AND EQUIPMENT SALES, 1938 and 1939

Province	1 9 3 8		:	1 9 3 9		
	Amount	% of Canada total		Amount	% of Canada total	% Change
CANADA	36,213,382	100.0		33,927,654	100.0	- 6.3
Maritimes	934,115	2.6		1,083,168	3.2	/ 16.0
Quebec	2,631,845	7.3		2,587,058	7.6	- 1.7
Ontario	7,786,267	21.5		7,423,604	21.9	- 4.7
Manitoba	7,465,625	20.6		4,905,443	14.4	- 34.3
Saskatchewan	7,812,638	21.6		8,508,410	25.1	/ 8.9
Alberta	9,143,567	25.2		9,020,222	26.6	- 1.3
British Columbia	439,325	1.2		399,749	1.2	- 9.0

Table 30 - TOTAL VALUE OF IMPLEMENTS AND MACHINERY ON FARMS, ACCORDING TO 1931 CENSUS

Provinces	Value	Per cent of total
	\$	
Prince Edward Island	8,116,000	1.3
Nova Scotia	10,554,000	1.6
New Brunswick	13,252,000	2.0
Quebec	97,270,000	14.5
Ontario	151,928,000	23.4
Manitoba	54,847,000	8.4
Saskatchewan	185,510,000	28.3
Alberta	116,301,000	17.9
British Columbia	12,886,000	2.0
CANADA	630,264,000	100.0

Table 31 - TOTAL VALUE OF IMPLEMENTS OR MACHINERY ON FARMS IN THE PRAIRIE PROVINCES, CENSUS 1936 COMPARED WITH CENSUS 1931

Provinces	1 9 3 6	1 9 3 1
	\$	\$
Manitoba	35,828,300	54,847,000
Saskatchewan	119,321,100	185,510,000
Alberta	80,039,700	116,301,000

Table 32 - NUMBERS OF SPECIFIED KINDS OF MACHINERY ON FARMS, BY PROVINCES, 1931 CENSUS

	Binders	Combines	Headers	Threshing machines
Prince Edward Island	7,204	...	...	3,238
Nova Scotia	2,015	...	...	837
New Brunswick	3,814	...	...	3,260
Quebec	42,944	...	...	39,575
Ontario	124,561	...	...	8,490
Manitoba	45,883	355	130	10,107
Saskatchewan	129,177	6,019	2,833	27,046
Alberta	73,487	2,523	1,837	12,457
British Columbia	2,318	20	5	534
CANADA	431,403	8,917	4,805	105,544

	Cream separators	Milking machines	Gasoline engines	Tractors
Prince Edward Island	8,140	27	4,193	176
Nova Scotia	19,392	41	2,848	424
New Brunswick	18,343	76	4,505	289
Quebec	90,003	827	36,251	2,417
Ontario	127,788	4,015	45,380	18,993
Manitoba	36,291	248	17,557	14,366
Saskatchewan	76,024	414	38,549	43,308
Alberta	48,421	366	26,938	23,985
British Columbia	6,841	405	3,544	1,402
CANADA	431,243	6,419	179,765	105,360

Table 33 - NUMBERS OF SPECIFIED KINDS OF MACHINERY ON FARMS IN THE PRAIRIE PROVINCES, 1936 CENSUS COMPARED WITH 1931 CENSUS

	Years	Manitoba	Saskatchewan	Alberta
Binders	1936	44,353	119,990	74,517
	1931	45,883	129,177	73,487
Combines	1936	498	6,413	2,909
	1931	355	6,019	2,523
Headers	1936	133	3,050	1,989
	1931	130	2,833	1,837
Threshing machines	1936	9,621	24,454	12,539
	1931	10,107	27,046	12,457
Gasoline engines	1936	16,915	39,193	30,029
	1931	17,557	38,549	26,938
Tractors	1936	14,685	41,051	24,913
	1931	14,366	43,308	23,985
Electric motors	1936	1,179	2,556	1,864
	1931	854	1,702	1,087
Motor trucks	1936	3,299	10,338	7,657
	1931	3,260	10,938	7,319
Automobiles	1936	22,980	54,469	39,222
	1931	25,598	65,094	42,817

NOTE - The 1936 Census covered the Prairie Provinces only.

LIST OF FIRMS INCLUDED IN THE FARM IMPLEMENTS AND MACHINERY INDUSTRY IN CANADA, 1939

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 1939.

<u>Names of Firms</u>	<u>Location of Plants</u>
<u>PRINCE EDWARD ISLAND -</u>	
Hall Manufacturing & Cold Storage Co. Ltd.	Summerside
<u>QUEBEC -</u>	
Banville, Odilon, & Fils	St. Octave de Metis
Desjardins, Ltee	St. Andre de Kamoursaka
Dion et Frere	St. Therese de Blainville
La Cie Jutras, Ltee	Victoriaville
Moody, Matthew, & Cons Co.	Terrebonne
<u>ONTARIO -</u>	
Canadian Potato Machinery Co. Ltd.	Jervis 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
Fleury-Bissell Ltd.	Aurora and Elora
Frost and Wood Co. Ltd.	Smiths Falls
Garden Equipment Co.	340 Pitt Street East, Windsor
Goodison, John, Thresher Co. Ltd.	Clifford Street, Sarnia
International Harvester Co. of Canada, Ltd.	Sherman Avenue North, Hamilton
Lobsinger Bros.	Mildmay
Massey-Harris Company Ltd.	915 King Street, Toronto; Woodstock and Brantford
Otaco, Limited	West Street, Orillia
Renfrew Machinery Co. Ltd.	Renfrew
Spramator Ltd.	1105 York Street, London
Waterloo Manufacturing Co. Ltd.	King Street South, Waterloo
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 - 10th Avenue West, Calgary.

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