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ANNUAL INDUSTRY BULLETIN
IRON AND STEEL AND THEIR PRODUCTS GROUP
THE FARM IMPLEMENTS AND MACHINERY INDUSTRY, 1937.

Manufacturers of farm implements in Canada reported an increase in production amounting to 19 per cent in 1937 compared with 1936, the factory values being \$18,961,394 and \$15,957,460 respectively. The 1937 value was the highest for the industry since 1930 but it was still less than one-half of the 1929 total of \$40,659,479.

Imports of agricultural machinery increased to \$17,233,658 in 1937 from \$9,373,876 in 1936, a gain of 84 per cent. Farm tractors and parts alone rose to \$13,437,264 from \$6,507,788, while other farm equipment advanced to \$3,746,394 from \$2,866,088.

Exports and re-exports of farm implements were valued at \$10,000,033 in 1937 or 65 per cent more than in 1936 when the total was \$6,068,155.

Thirty-seven factories were included in the farm implements industry in 1937, there being 26 works in Ontario, 5 in Quebec, 4 in Manitoba, 1 in Alberta and 1 in Prince Edward Island. The works in Ontario accounted for 96 per cent of the total output.

The industry employed an average of 6,446 workers in 1937, compared with 5,508 in 1936. The 917 salaried employees were paid \$1,538,918 during the year and the 5,529 wage-earners were paid \$5,811,125. The total of \$7,350,043 for salaries and wages was 22 per cent higher than the amount distributed for this purpose in 1936.

Capital employed in manufacturing operations amounted to \$60,927,315 at the end of 1937, including \$15,974,029 as the value of land, buildings and factory equipment, \$21,636,169 as the inventory value of materials and products on hand, and \$23,317,117 as operating capital. Inventories were 4.4 millions higher than in 1936 and operating capital was up \$2.1 million while the value of building, etc.; was lower by \$1.7 millions.

In 1937 the Internal Trade Branch of the Dominion Bureau of Statistics made a special survey of sales of farm implements and equipment in Canada and reports that domestic sales, at wholesale prices to dealers, totalled \$30,465,153 or 58 per cent more than in 1936 when the corresponding value was \$19,343,871. The sales of the various implements are given in detail in a special report which may be obtained from the Bureau upon application with remittance of the charge of twenty-five cents.

Table 1 - PRINCIPAL STATISTICS OF THE FARM IMPLEMENTS AND MACHINERY INDUSTRY, 1920-1937.

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
		\$		\$	\$	\$	\$
1920	99	110,868,713	12,338	16,941,987	1,062,337	22,588,390	50,301,302
1921	90	100,285,688	9,198	11,808,700	1,045,918	18,354,537	38,947,968
1922	73	92,566,964	6,221	7,084,947	450,436	7,967,767	18,240,381
1923	67	92,277,040	7,792	9,112,214	340,413	11,592,401	26,026,419
1924	63	82,377,387	6,700	8,192,861	605,614	11,700,644	26,447,171
1925	61	81,361,961	7,559	9,089,221	642,769	11,039,186	24,770,216
1926	69	78,947,274	10,091	12,636,915	335,088	18,160,336	38,269,214
1927	65	88,981,203	11,011	13,315,500	805,376	19,317,415	42,996,288
1928	66	91,142,820	10,867	13,599,953	721,123	17,607,861	41,199,841
1929	62	103,356,773	11,408	14,775,889	799,634	19,016,981	40,659,479
1930	57	98,684,328	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	3,047,501	283,748	2,215,031	5,326,416
1934	35	55,742,696	3,706	3,776,918	368,292	3,632,321	3,317,756
1935	34	55,523,865	4,939	5,325,620	473,043	6,443,183	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

Table 2 - INDEX NUMBERS OF PRODUCTION OF FARM IMPLEMENTS AND MACHINERY, 1920-1937.

Years	INDEX NUMBER		Years	INDEX NUMBER	
	Total Value(x)	Volume (xx)		Total Value(x)	Volume (xx)
1920	131	141	1929	106	112
1921	102	97	1930	70	84
1922	48	51	1931	29	23
1923	68	69	1932	14	11
1924	69	63	1933	14	15
1925	65	68	1934	23	27
1926	100	100	1935	36	46
1927	112	112	1936	42	48
1928	108	111	1937	50	53

(x) Gross selling value at works.

(xx) Based on 23 major items of production.

Table 3 - APPARENT CONSUMPTION OF FARM IMPLEMENTS AND MACHINERY IN CANADA, CALENDAR YEARS 1920 - 1937.

Years	Production of the Farm Implements and Machinery Industry (x) (Gross selling value at factories)	IMPORTS	EXPORTS AND RE-EXPORTS	APPARENT CONSUMPTION (xx)
	\$	\$	\$	\$
1920	50,501,502	23,123,201	12,197,994	61,226,509
1921	38,947,968	9,199,653	7,615,825	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	11,234,839	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	31,345,326	20,118,978	52,385,827
1930	26,902,159	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	9,373,376	6,068,155	19,263,181
1937	18,961,394	17,233,658	10,000,033	26,195,019

(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, 1936 and 1937.

Provinces	Number of plants	Capital	Average	Salaries	Cost of	Cost of	Gross selling
		employed	number of em- ployees	and wages	fuel and electricity at works	materials at works	value of products at works
		\$		\$	\$	\$	\$
1936							
Quebec	5	323,817	120	73,576	4,920	78,079	169,264
Ontario	26	55,235,112	5,294	5,850,340	516,019	6,957,063	15,385,517
Pr. Ed. Island	1)						
Manitoba	3)	512,498	94	117,204	9,361	174,257	402,679
Alberta	1)						
CANADA	36	56,121,427	5,508	6,041,620	530,300	7,209,399	15,957,460
1937							
Quebec	5	378,237	158	96,578	6,403	113,517	322,642
Ontario	26	59,986,930	6,166	7,109,663	549,311	8,950,605	18,139,802
Pr. Ed. Island	1)						
Manitoba	4)	562,098	122	143,802	11,026	254,910	498,950
Alberta	1)						
CANADA	37	60,927,315	6,446	7,350,043	567,240	9,319,032	18,961,394

Table 5 - ESTABLISHMENTS GROUPED ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES, and CAPITAL EMPLOYED, 1937.

	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 \$
(a) PRODUCTION							
Under \$10,000	5	91,078	23	11,685	1,348	6,782	25,933
\$10,001 to \$25,000 ..	5	163,935	44	37,253	1,329	42,639	101,092
\$25,001 to \$50,000 ...	5	620,189	79	69,196	4,230	81,626	198,743
\$50,001 to \$100,000 ..	4	363,675	140	89,131	5,320	112,352	253,861
\$100,001 to \$500,000 ..	9	5,330,366	651	649,427	34,591	538,591	1,506,546
\$500,001 to \$1,000,000	5	6,398,604	1,121	1,146,992	71,407	1,725,369	3,403,953
Over \$1,000,000	4	47,959,468	4,338	5,346,359	443,515	6,811,673	13,471,266
TOTAL	37	60,927,315	6,446	7,350,043	567,240	9,319,032	13,961,394
(b) EMPLOYEES							
3 to 10	10	258,682	61	49,103	2,792	52,563	145,802
11 to 20	6	482,155	90	81,968	4,846	136,543	269,822
21 to 50	6	1,253,388	233	238,570	15,304	313,337	795,738
51 to 100	5	3,459,073	347	341,689	22,940	462,326	1,047,412
101 to 200	3	3,407,892	459	385,283	19,923	468,939	960,230
Over 200	7	52,066,125	5,256	6,253,430	501,435	7,879,824	15,742,390
TOTAL	37	60,927,315	6,446	7,350,043	567,240	9,319,032	13,961,394
(c) CAPITAL EMPLOYED							
Under \$25,000	7	69,000	42	28,385	1,327	56,037	100,414
\$25,000 to \$100,000 ..	8	443,511	124	93,216	5,973	118,249	288,414
\$100,001 to \$500,000 ..	9	1,913,235	346	333,571	20,684	403,560	1,017,319
\$500,001 to \$1,000,000	5	3,935,380	714	661,795	45,533	894,834	1,790,072
\$1,000,001 to \$2,000,000	3	4,332,180	436	438,340	21,188	496,131	1,313,794
Over \$2,000,000	5	50,234,009	4,784	5,738,736	472,535	7,350,171	14,451,331
TOTAL	37	60,927,315	6,446	7,350,043	567,240	9,319,032	13,961,394

Table 6 - CAPITAL EMPLOYED, BY CLASSES AND BY PROVINCES, 1936 and 1937.

Provinces	Present value of lands, buildings, fixtures, machinery and tools \$	Inventory value of materials on hand, stocks in process and fini- shed products on hand \$	Operating capital (cash, bills and accounts re- ceivable, etc.) \$	TOTAL CAPITAL EMPLOYED \$
1936				
Quebec	78,491	69,683	175,643	323,817
Ontario	17,373,051	16,934,745	20,977,316	55,235,112
Other provinces	199,415	216,935	96,148	512,498
CANADA	17,650,957	17,221,363	21,249,107	56,121,427
1937				
Quebec	79,730	98,953	199,554	378,237
Ontario	15,690,094	21,277,429	23,019,457	59,986,980
Other provinces	204,205	259,737	98,106	562,098
CANADA	15,974,029	21,636,169	23,317,117	60,927,315

Table 7 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1936 and 1937.

Provinces	AVERAGE NUMBER OF EMPLOYEES					Salaries	Wages	TOTAL SALARIES and WAGES
	On salaries		On wages		TOTAL			
	Male	Female	Male	Female				
						\$	\$	\$
1936								
Quebec	23	...	97	...	120	27,323	45,753	73,576
Ontario	650	195	4,393	56	5,294	1,368,454	4,482,386	5,850,840
Other provinces ..	19	6	69	...	94	49,356	67,848	117,204
CANADA	692	201	4,559	56	5,508	1,445,633	4,595,937	6,041,620
1937								
Quebec	31	...	127	...	158	37,505	59,073	96,578
Ontario	646	208	5,249	63	6,166	1,442,735	5,666,928	7,109,663
Other provinces ..	24	8	90	...	122	58,678	35,124	143,802
CANADA	701	216	5,466	63	6,446	1,538,913	5,811,125	7,350,043

Table 8 - WAGE-EARNERS, BY MONTHS, 1936 and 1937. (On the 15th of each month or nearest representative date).

Months	1936			1937		
	Male	Female	TOTAL	Male	Female	TOTAL
January	4,850	59	4,909	4,534	41	4,575
February	4,978	60	5,038	4,377	56	4,933
March	5,050	58	5,108	5,257	55	5,312
April	5,133	59	5,242	5,304	49	5,353
May	5,247	59	5,306	5,441	58	5,499
June	4,917	53	4,970	5,576	64	5,640
July	4,680	49	4,729	5,556	68	5,624
August	3,814	36	3,850	5,429	65	5,494
September	3,400	20	3,420	5,370	70	5,440
October	3,675	65	3,740	5,717	78	5,795
November	4,256	67	4,323	6,205	77	6,282
December	4,641	64	4,705	6,274	80	6,354
AVERAGE	4,559	56	4,615	5,466	63	5,529

Table 9 - REGULAR HOURS WORKED PER WEEK BY WAGE-EARNERS, 1936 and 1937.

(Based on data for month of highest employment)

Regular hours worked per week	Per cent of wage-earners		Regular hours worked per week	Per cent of wage-earners	
	1936	1937		1936	1937
40 hours or less	8.9	2.9	49 - 50 hours	2.2	11.9
41 - 43 hours	2.3	2.4	51 - 53 hours	0.8	0.9
44 hours	4.2	8.8	54 hours	2.1	2.0
45 - 47 hours	6.3	0.3	55 hours	0.3	0.6
48 hours	67.8	64.2	56 - 59 hours	1.3	3.3
			60 hours or over	3.8	2.7
			Grand Total	100.0	100.0

Table 10 - FUEL AND ELECTRICITY USED, 1936 and 1937.

Kinds	Unit of Measure	1936		1937	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal -					
Canadian	short tons	1,371	9,418	2,394	14,350
Imported	short tons	35,131	175,615	34,322	174,609
Anthracite coal	short tons	160	1,388	209	2,275
Coke	short tons	232	2,967	320	3,419
Gasoline	Imp. gal.	23,385	4,721	20,549	3,434
Kerosene	Imp. gal.	815	153	1,025	200
Fuel oil	Imp. gal.	1,405,964	105,098	2,427,712	130,385
Wood	cords	907	2,705	814	3,641
Gas - Manufactured	M cu.ft.	126,041	37,465	170,173	48,691
Natural	M cu.ft.	12,514	5,408	11,693	6,300
Other fuel	xxxxxx	...	...	...	6
Electricity	K. W. H.	16,843,169	134,862	18,367,948	179,930
TOTAL .....	\$	...	530,300	...	567,240

Table 11 - POWER EQUIPMENT, 1936 and 1937.

	1936		1937	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and steam turbines ...	27	3,630	20	3,455
Gasoline, gas and oil engines	5	51	5	32
Hydraulic turbines or water wheels .	3	116	3	116
Total Primary Equipment	35	3,797	25	3,487
Electric motors run by purchased power	1,478	20,265	1,434	19,332
TOTAL	1,513	24,062	1,462	22,935
Electric motors run by power generated by above primary units	10	72	...	...
Total Electric Motors	1,488	20,337	1,434	19,332
Boilers	57	6,601	45	5,276

Table 12 - POWER EQUIPMENT, 1937, SHOWING "ORDINARILY IN USE" SEPARATELY FROM "IN RESERVE OR IDLE".

	Ordinarily in use		In reserve or idle	
	Number of units	Total horse power rating	Number of units	Total horse power rating
Steam engines and steam trubines	16	2,680	4	775
Gasoline, gas and oil engines	4	22	1	10
Hydraulic turbines or water wheels ..	3	116	...	...
Total Primary Equipment	23	2,818	5	785
Electric motors run by purchased power	1,358	17,723	76	1,609
TOTAL	1,391	20,541	81	2,394
Electric motors run by above primary units .....	...	...	...	...
Total Electric Motors	1,358	17,723	76	1,609
Boilers	42	4,998	3	278

Table 13 - MATERIALS USED IN MANUFACTURING, 1936 and 1937. (Quantity figures should not be taken as being absolutely accurate, as in a few instances it was necessary to make estimates).

Materials	Unit of measure	1936		1937	
		Quantity	Total cost at works	Quantity	Total cost at works
			\$		\$
Iron -					
Pig iron, all grades	long ton	16,194	325,778	23,238	533,062
Iron castings of all kinds purchased	short ton	4,752	571,100	5,064	541,354
Steel, hot or cold rolled (except special alloy steel) -					
Steel castings	short ton	243	51,652	245	46,238
Bars and rods	short ton	22,495	1,069,983	42,253	2,418,451
Forgings	short ton	22	2,381	43	5,963
Plates	short ton	1,617	135,863	2,450	249,090
Shafting	short ton	572	44,380	476	45,469
Sheets, plain	short ton	1,876	115,321	4,977	315,752
Sheets, galvanized	short ton	2,394	141,315	1,930	153,705
Strip	short ton	1,317	67,771	1,728	98,173
Stampings	short ton	518	80,712	1,012	149,354
Structural shapes (angles, channels, etc.)	short ton	1,734	84,262	2,900	130,042
Wire	short ton	133	13,381	225	16,716
Alloy steel	short ton	42	21,905	44	28,017
Scrap iron and steel of all kinds	short ton	9,932	100,134	16,353	219,070
Other iron and steel	short ton	...	466,422	...	47,792
Other metals (including scrap) -					
Aluminium	pound	18,624	4,730	19,939	4,586
Brass and bronze castings, sheets, etc.	pound	247,427	51,530	360,320	56,781
Copper sheets, bars, etc. ..	pound	170,324	22,885	243,238	31,975
Lead	pound	25,357	1,415	13,413	377
Nickel	pound	678	167	7,307	1,329
Tin	pound	25,719	13,099	24,565	13,937
Zinc	pound	177,074	9,037	138,928	8,767
Babbitt metals and solder ..	pound	49,248	11,057	48,433	12,953
Other metals .....	\$	...	12,351	...	10,488
Other materials and supplies -					
Parts for machines or vehicles	\$	...	1,035,989	...	1,359,885
Iron and steel pipe, tubing and fittings .....	\$	...	74,684	...	93,832
Bolts, nuts, rivets and screws	\$	...	161,580	...	191,428
Electrical goods, including motors .....	\$	...	71,203	...	114,295
Paints, oils and varnishes ..	\$	...	161,442	...	199,555
Rubber and leather goods ...	\$	...	92,370	...	115,771
Wheels .....	\$	...	223,393	...	171,513
Separator parts .....	\$	...	253,920	...	229,034
Cotton, duck and other textiles .....	\$	...	244,581	...	194,344

Table 13 - MATERIALS USED IN MANUFACTURING, 1936 and 1937. (concluded)

Materials	Unit of measure	1936		1937	
		Quantity	Total cost at works \$	Quantity	Total cost at works \$
Foundry coke (used in cupola; not for heat or power)	short ton	6,262	73,241	7,712	93,003
Moulding sands	short ton	4,342	15,234	3,771	15,917
Core sands	short ton	2,225	6,361	3,962	11,773
Plumbago	pound	4,027	312	4,720	393
Other foundry facings	pound	214,624	2,591	316,462	3,771
Patterns and models .....	\$	...	2,695	...	6,604
Lumber	M ft. b.m.	13,234	590,316	17,052	688,845
Firebrick	number	237,842	20,605	424,173	23,630
Fireclay	short ton	415	4,364	379	2,658
Cupola blocks	number	9,962	2,058	14,033	2,354
Core oil	Imp. gal.	18,131	11,974	22,467	14,372
Core compounds .....	\$\$\$	...	4,723	...	9,581
Shipping containers .....	\$	...	4,997	...	3,147
All other materials and supplies .....	\$	...	741,085	...	617,886
TOTAL .....	\$	...	7,209,399	...	9,319,032

Table 14 - PRODUCTS MADE, 1937.

	Number	Selling value at works \$
Tillage Implements -		
Cultivators, corn	1,707	62,407
Cultivators, other	4,257	303,583
Harrows - Disc(except one way discs)	9,716	449,253
Spike tooth sections	25,703	85,489
Spring tooth	7,975	122,639
Harrow parts and attachments .....	...	15,709
Hoes, horse	968	8,603
Land rollers, packers and soil pulverizers	1,484	46,786
Ploughs - Mould board, Horse drawn -		
Walking, one horse	25,697	227,751
Walking, two horse and larger	15,613	224,272
Sulky, one bottom	543	23,230
Gang, two bottom and larger	10,411	577,428
Mould board, tractor drawn, all types	5,301	429,281
Disc - horse drawn, all types	1,321	95,779
Disc - tractor drawn, all types	878	144,687
All other (breakers, etc.)	476	13,198
Plough parts and attachments .....	...	13,101
One-way discs, harrow ploughs, and tiller combines	7,639	990,086
Scufflers	17,643	115,084
Weeders	1,994	110,309

Table 14 - PRODUCTS MADE, 1937 . - (concluded)

	Number	Selling value at works \$
Planting and Seeding Machines -		
Fertilizer sowers	404	30,569
Seed drills, press and wheel	6,664	806,115
Planters, corn	3,833	119,265
Harvesting Machines -		
Binders, corn and cotton	577	85,137
Binders, grain - Horse	8,521	1,423,846
P.T.O.	1,014	243,697
Threshers and reaper-threshers combines	1,981	1,707,686
Thresher parts .....	...	101,015
Other, including pick-ups, harvester stackers and push harvesters .....	...	24,166
Haying Machines -		
Hay loaders	1,254	93,662
Hay rakes - Dump	6,286	192,627
Side, including combination side rakes and tedders	263	20,548
Mowers	11,320	740,567
Other, including hay carriers, hay forks, hay tedders and hay presses .....	...	12,478
Other Farm Equipment -		
Barn and stable equipment .....	...	51,500
Corn shellers	728	6,552
Cream separators	10,610	663,986
Ensilage and straw cutters	339	18,033
Eveners	11,071	14,805
Fanning mills and grain cleaners	1,956	182,882
Grain grinders	2,008	105,466
Hammer mills	409	38,565
Manure spreaders	2,949	337,589
Potato diggers	485	37,963
Pulpers and slicers	711	11,877
Sleighs, complete	2,681	132,000
Sprayers, hand	1,461	32,198
Sprayers, power	127	52,189
Wagons, wagon boxes and gears .....	...	89,800
Wheelbarrows	4,056	20,174
Farm implements and machinery, not elsewhere specified ..	...	642,299
Parts and accessories for farm implements and machinery.	...	4,862,717
Amount received for custom work and repairs .....	...	823,646
All other products (x) .....	...	1,163,095
TOTAL .....	...	18,961,394

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

Table 15 - IMPORTS INTO CANADA OF FARM IMPLEMENTS AND MACHINERY, 1936 and 1937.

Items	1936		1937	
	Quantity	Value	Quantity	Value
	Number	\$	Number	\$
Cream separators, steel bowls for .....	...	2,003	...	2,667
Cream separators, and complete parts, not elsewhere specified	17,077	412,706	22,920	560,890
Milk clarifiers and complete parts (from April 1, 1936) .....	...	1,910	...	5,028
Milking machines and attachments therefor, centrifugal machines for testing butter fat, milk or cream, and complete parts ..	...	24,829	...	49,425
Pasteurizers for dairy purposes, and complete parts	103	86,677	141	95,427
Power churns, power milk coolers, power butter printers, etc. ....	...	70,803	...	119,720
Forks, pronged	2,212	13,514	2,328	15,504
Harvesters, self-binding or not, and parts.	655	215,492	1,186	344,273
Hay loaders and parts	24	2,272	161	14,451
Hay tedders and parts	34	1,899	2	1,107
Mowing machines and parts	303	76,315	826	95,922
Potato diggers, planters and parts	260	19,333	573	65,086
Rakes, horse, and parts	432	19,156	489	26,573
Rakes, n.o.p. dozen	3,620	8,258	6,574	10,641
Reapers and parts	1	379	47	2,858
Scythes	2,356	15,327	2,363	13,288
Sickles or reaping hooks	1,243	3,357	782	2,790
Cultivators, horse hoes, scufflers, weeders and parts .....	...	106,017	...	143,996
Drills, seed, garden seeders and parts ....	...	108,145	...	164,512
Harrows, disc, and parts .....	...	20,823	...	43,181
Harrows and parts, other .....	...	31,270	...	63,543
Hoes	1,658	4,233	1,347	4,034
Ploughs, disc, and parts .....	...	30,924	...	114,601
Ploughs and parts, other .....	...	194,603	...	458,089
Rollers, farm, field, lawn or garden, and soil packers and parts	23	1,494	219	7,203
Fanning mills, pea viners and corn husking machines and parts	102	28,728	375	54,929
Harvesters in combination with threshing machine separators and complete parts ...	92	184,148	189	257,410
Threshing machine separators	176	133,491	121	97,440
Threshing machine separators, parts of, including wind stackers, baggers, weighers, and self-feeders therefor, and complete parts .....	...	130,625	...	100,738
Apparatus especially designed for sterilizing bulbs; pressure testing apparatus for determining maturity of fruit, and parts .....	...	39	...	177
Equipment for generating electric power for farm purposes only, viz., engine gas tank, generator, storage battery and switchboard, and complete parts .....	...	57,218	...	80,253
Fodder, feed or ensilage cutters and parts.	581	57,700	325	89,974

Table 15 - IMPORTS INTO CANADA OF FARM IMPLEMENTS AND MACHINERY, 1936 and 1937.
(concluded)

Items	1936		1937	
	Quantity	Value	Quantity	Value
	Number	\$	Number	\$
Fruit and vegetable grading, washing and wiping machines and combination bagging and weighing machines, and complete parts	...	43,144	...	75,592
Grain crushers and grain or hay grinders and parts	164	27,018	213	42,027
Hay presses and parts	31	13,960	72	24,388
Knives, edging	136	309	88	496
Knives, hay or straw	...	4	...	...
Manure spreaders and parts	237	26,614	607	73,806
Post-hole diggers and parts	1,109	1,583	1,333	2,484
Spades and shovels of iron and steel, other	7,514	13,908	10,364	27,506
Spraying and dusting machines and parts, including hand sprayers and parts	...	113,097	...	204,962
Stumping machines and complete parts thereof	3	497	10	1,700
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	5	13,526	11	54,464
Traction engines, internal combustion, for farm purposes, valued at not more than \$1,400 each	5,152	4,398,423	12,404	10,803,859
Complete parts of traction engines, internal combustion, for farm purposes, valued at not more than \$1,400 each, and automobile traction attachments and parts	...	1,960,970	...	2,628,941
Other traction engines for farm purposes	70	121,691	...	...
Other parts of traction engines for farm purposes	...	13,178	...	...
Windmills and complete parts thereof not including shafting	...	45,617	...	59,095
Pruning hooks, shears, animal dehorning instruments and all other agricultural implements, not elsewhere provided for, and parts	...	70,633	...	118,123
Parts of agricultural implements for repairs	...	435,466	...	...
TOTAL	...	9,373,876	...	17,233,658

Table 16 - EXPORTS OF FARM IMPLEMENTS AND MACHINERY FROM CANADA, 1936 and 1937.

	1936		1937	
	Quantity	Value	Quantity	Value
	Number	\$	Number	\$
(a) EXPORTS				
Cream separators and parts	...	97,363	...	68,710
Milking machines and parts	...	188,625	...	293,475
Harvesters and binders	3,381	706,008	5,335	986,796
Hay rakes	1,234	42,630	1,884	62,419
Mowing machines and reapers	3,213	198,062	2,870	196,937
Reaper-threshers	445	478,733	960	842,297

Table 16 - EXPORTS OF FARM IMPLEMENTS AND MACHINERY FROM CANADA, 1936 and 1937.
(concluded)

	1936		1937	
	Quantity Number	Value \$	Quantity Number	Value \$
(a) <u>EXPORTS</u> - (concluded)				
Cultivators	6,576	186,464	9,355	244,585
Drills	2,120	275,599	3,727	547,891
Harrows, disc, and parts .....	...	102,410	...	183,234
Harrows and parts, other .....	...	59,538	...	154,411
Ploughs, disc, and parts .....	...	234,892	...	509,852
Ploughs and parts, other .....	...	1,275,055	...	2,219,251
Seeders	388	25,293	303	21,828
Threshing machine separators and parts .....	...	327,950	...	657,649
Garden and farm tools .....	...	163,726	...	204,149
Spades and shovels and parts	16,206	102,653	32,168	218,462
Other farm implements and machines .....	...	293,555	...	467,231
Other parts for farm implements and machines.	...	1,233,247	...	1,959,631
TOTAL .....	...	5,992,303	...	9,838,808
(b) <u>RE-EXPORTS</u>				
Farm implements and parts .....	...	75,852	...	161,225

Table 17 - IMPORTS INTO CANADA, EXPORTS AND RE-EXPORTS OF FARM IMPLEMENTS AND MACHINERY, BY PRINCIPAL COUNTRIES, 1936 and 1937.

Countries of origin for imports or of destination for exports	IMPORTS		EXPORTS AND RE-EXPORTS	
	1936 \$	1937 \$	1936 \$	1937 \$
Argentina	305	68	911,692	2,453,569
Australia	1,379	9,439	202,240	214,913
Belgium	10,366	10,661	28,228	22,660
British South Africa	2,130	3,246	1,013,227	1,311,911
Chile .....	...	...	60,420	62,552
Denmark	5,039	6,200	28,025	5,848
Finland	2,649	7,529	4,833	21,594
France	290	2,682	43,950	93,701
French Africa .....	...	...	38,039	90,397
Germany	41,177	61,580	14,743	23,821
Great Britain	217,200	490,588	978,940	1,210,116
Irish Free State	1,058	1,481	16,936	7,430
Italy .....	...	...	2,384	2,614
Mexico .....	...	...	12,324	33,521
Morocco .....	...	...	8,110	22,928
New Zealand	9,974	...	270,446	339,745
Norway .....	...	...	15,983	29,695
Portuguese Africa .....	...	...	37,826	77,949
Sweden	262,706	342,614	37,546	62,544
United States	8,811,262	16,275,597	2,064,394	3,456,381
Uruguay .....	...	...	76,882	183,612
Other countries	8,341	21,973	200,987	272,532
TOTAL	9,373,876	17,233,658	6,068,155	10,000,033

Table 18 - PRODUCTION OF PLOUGHS IN CANADA, IMPORTS AND EXPORTS, 1932-1937.

		1932	1933	1934	1935	1936	1937
PRODUCTION (x)	No.	14,505	16,033	31,986	40,815	42,530	69,426
(Ploughs)	\$	463,627	434,560	920,177	1,522,220	1,949,606	2,732,117
IMPORTS							
(Ploughs and parts)	\$	44,906	10,481	41,022	58,872	225,527	572,690
EXPORTS							
(Ploughs and parts)	\$	233,951	254,626	639,321	1,161,907	1,509,947	2,729,103

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

Table 19 - PRODUCTION OF MOWERS IN CANADA, IMPORTS AND EXPORTS, 1932-1937.

		1932	1933	1934	1935	1936	1937
PRODUCTION	No.	4,155	3,796	8,924	11,859	11,033	11,320
(Hay mowers)	\$	209,832	202,955	545,176	716,026	691,458	740,567
IMPORTS	No.	110	244	471	792	803	826
(Mowing machines and parts)	\$	13,337	15,691	26,299	48,582	76,315	85,922
EXPORTS	No.	826	416	1,929	4,310	3,213	2,870
(Mowing machines)	\$	42,594	23,664	114,615	263,126	198,062	196,937

Table 20 - PRODUCTION OF HARROWS IN CANADA, IMPORTS AND EXPORTS, 1932-1937.

		1932	1933	1934	1935	1936	1937
PRODUCTION (x)	No.	6,097	6,378	14,799	30,286	33,536	43,767
(Harrows and sections)	\$	100,455	70,489	178,535	348,643	422,731	668,571
IMPORTS	\$	7,396	3,885	16,181	46,648	52,093	116,724
(Harrows and parts)							
EXPORTS	\$	24,422	39,149	80,816	134,439	161,948	337,645
(Harrows and parts)							

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

Table 21 - PRODUCTION OF GRAIN-BINDERS IN CANADA, IMPORTS AND EXPORTS, 1932-1937.

		1932	1933	1934	1935	1936	1937
PRODUCTION	No.	2,402	6,317	7,253	16,177	15,519	9,535
(Grain binders)	\$	369,810	815,380	1,122,829	2,403,099	2,481,072	1,667,543
IMPORTS	No.	452	400	448	953	655	1,186
(Harvesters, self-binding or not)	\$	94,436	71,462	68,080	175,659	215,492	344,278
EXPORTS	No.	720	822	1,681	3,580	3,881	5,335
(Harvesters and binders)	\$	135,957	131,012	281,685	640,308	706,008	986,796

Table 22 - PRODUCTION OF THRESHERS AND REAPER-THRESHERS IN CANADA, IMPORTS AND EXPORTS, 1932-1937. (including some threshers made in other industries.

		1932	1933	1934	1935	1936	1937
PRODUCTION	No.	418	351	738	1,459	1,060	1,981
(Threshers and reaper-threshers)	\$	389,174	250,921	609,325	1,050,133	867,859	1,707,686
IMPORTS	No.	45	68	37	16	268	310
(Threshing machine separators; and harvesters in combination with threshing machine separators)	\$	42,145	53,899	32,619	10,218	317,639	354,850
EXPORTS	\$	261,146	50,068	434,445	1,125,581	306,683	1,499,946
(Reaper-threshers and threshing machine separators and parts)							

Table 23 - PRODUCTION OF SEED DRILLS IN CANADA, IMPORTS AND EXPORTS, 1932-1937.

		1932	1933	1934	1935	1936	1937
PRODUCTION	No.	716	256	1,055	4,481	7,358	6,664
	\$	92,462	33,622	118,976	519,125	964,532	806,115
IMPORTS	No.	...	...	...	...	...	...
(Seed drills, garden seeders and parts)	\$	7,196	12,251	26,483	33,426	108,145	164,512
EXPORTS	No.	492	190	813	1,638	2,120	3,727
(Drills)	\$	69,198	32,607	111,506	217,854	275,599	547,891

Table 24 - PRODUCTION IN CANADA, IMPORTS AND EXPORTS OF CREAM SEPARATORS, 1932-1937.

		1932	1933	1934	1935	1936	1937
PRODUCTION	No.	3,324	6,652	9,963	12,107	10,902	10,183
(Cream separators)	\$	203,201	413,530	675,165	791,346	710,003	615,323
IMPORTS	No.	7,358	9,560	12,305	11,299	17,077	22,920
(Cream separators and parts)	\$	324,151	429,420	418,488	304,946	414,709	563,557
EXPORTS	\$	4,291	33,774	42,428	66,154	97,863	68,710
(Cream separators and parts)							

Table 25 - PRODUCTION OF ONE-WAY DISCS, HARROW-PLOUGHS AND TILLER-COMBINES, 1933-1937.

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

Table 26 - PRODUCTION OF CULTIVATORS IN CANADA, 1932-1937.

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	5,599	374,351
1937	5,964	365,990

Table 27 - PRODUCTION OF SCUFFLERS, WEEDERS AND CORN PLANTERS, 1932-1937.

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	14,941	125	2,301
1934	8,340	52,528	546	23,090	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

Table 28 - PRODUCTION OF HAY LOADERS AND HAY RAKES, 1932-1937.

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	40,381
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

Table 29 - PRODUCTION OF MANURE SPREADERS, 1932-1937.

Years	Number	Selling value at works \$
1932	504	55,860
1933	498	43,564
1934	1,488	159,631
1935	1,738	135,368
1936	3,089	238,065
1937	2,949	337,589

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	14.9
Ontario	151,928,000	23.4
Manitoba	54,847,000	8.4
Saskatchewan	135,510,000	28.5
Alberta	116,301,000	17.9
British Columbia	12,886,000	2.0
CANADA	650,664,000	100.0

Table 31 - TOTAL VALUE OF IMPLEMENTS OR MACHINERY ON FARMS IN 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.

Provinces	Binders	Combines	Headers	Threshing Machines	Cream Separators	Milking Machines
Prince Edward Island ..	7,204	...	...	3,238	8,140	27
Nova Scotia	2,015	...	...	837	19,392	41
New Brunswick	3,814	...	...	3,260	18,343	76
Quebec	42,944	...	...	39,575	90,003	827
Ontario	124,561	...	...	8,490	127,788	4,015
Manitoba	45,883	355	130	10,107	36,291	248
Saskatchewan	129,177	6,019	2,833	27,046	76,024	414
Alberta	73,487	2,523	1,837	12,457	48,421	366
British Columbia	2,318	20	5	534	6,841	405
TOTAL - CANADA ..	431,403	8,917	4,805	105,555	431,243	6,419

	Gasoline Engines	Tractors	Electric Motors	Motor Trucks	Automobiles
Prince Edward Island ..	4,193	176	184	369	3,835
Nova Scotia	2,848	424	437	1,704	10,297
New Brunswick	4,505	289	501	1,126	10,425
Quebec	36,251	2,417	3,311	5,152	26,877
Ontario	45,380	18,993	9,604	14,586	125,716
Manitoba	17,557	14,366	854	3,260	25,588
Saskatchewan	38,549	43,308	1,702	10,938	65,094
Alberta	26,938	23,985	1,087	7,319	42,817
British Columbia	3,544	1,402	959	3,947	10,585
TOTAL - CANADA ..	179,765	105,360	18,639	48,401	321,284

Table 33 -- NUMBERS OF SPECIFIED KINDS OF MACHINERY ON FARMS IN 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	33,549	26,938
Tractors	1936	14,685	42,051	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	25,588	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, 1937.

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 1937.

Names of Firms

Location of Plants

PRINCE EDWARD ISLAND --

Hall Manufacturing & Cold Storage Co. Ltd.

Summerside

QUEBEC ..

Banville, Odilon, & Fils

St. Octave de Metis

Desjardins, Ltee.

St. Andre de Kamouraska

Dion et Frere

Ste. Therese de Blainville

La Cie Jutras, Ltee.

Victoriaville

Moody, Matthew, & Sons Co.

Terrebonne

LIST OF FIRMS INCLUDED IN THE FARM IMPLEMENTS AND MACHINERY INDUSTRY IN CANADA, 1937 -
(Concluded)

Names of Firms

Location of Plants

ONTARIO -

Bissell, T. E., Company Ltd.	Elora
Canadian Potato Machinery Co. Ltd.	Jarvis St., Galt
Cockshutt Plow Co. Ltd.	66 Mohawk St., Brantford
Common Sense Fanning Mill Co.	Alliston
Deere, John, Plow Co. Ltd.	Canal Bank, Welland
De Laval Company Ltd., The	113 Park St., Peterborough
Ebersol, John R.	Milverton
Ernst Bros. Co. Ltd.	Mount Forest
Erie Iron Works Ltd.	116 Talbot St., St. Thomas
Goodison, John, Thresher Co. Ltd.	Clifford St., Sarnia
Fleury's, J., Sons, Ltd.	Wellington St., Aurora
Frost and Wood Co. Ltd.	25 Chambers St., Smiths Falls
Hergott Company	Mildmay
International Harvester Co. of Canada, Ltd.	Sherman Ave. N., Hamilton
Massey-Harris Company Ltd.	Market St. and Canal Road, Brantford
Massey-Harris Company Ltd.	915 King St., Toronto (Head Office)
New Perfection Sprayer Co.	65 Main St., Galt
Otaco, Limited	Orillia
Percival Plow & Metal Works Ltd.	Merrickville
Renfrew Machinery Co. Ltd.	Lochiel St., Renfrew
Spramotor Ltd.	1105 York St., London
Sunshine Waterloo Co. Ltd.	Waterloo
Waterloo Manufacturing Co. Ltd.	King St. S., Waterloo
Watson, John, Mfg. Co. Ltd.	Ayr
White, George, & Sons Co. Ltd.	Cabell St., London
Wood, W. C., Co. Ltd.	2480 Dundas St. W., Toronto

MANITOBA -

Gregg Mfg. Co. Ltd.	601 Bowman Ave., Winnipeg
Hart-Emerson Company Ltd., The	1425 Whyte Ave., Winnipeg
Monarch Machinery Co. Ltd.	Brown Block, 202 Home St., Winnipeg
Standard Gas Engine Works	Morden

ALBERTA -

Samson Rotary Rod Weeder Ltd.	1019 - 10th Avenue West, Calgary
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