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ANNUAL INDUSTRY BULLETIN

IRON AND STEEL AND THEIR PRODUCTS GROUP

THE FARM IMPLEMENTS AND MACHINERY INDUSTRY, 1936.

Production from the factories in Canada which were engaged chiefly in the manufacture of farm implements and machinery was valued at \$15,957,460 in 1936 compared with \$13,692,476 in 1935 and \$8,817,756 in 1934. The 1936 total was the highest since 1930 when the output value was \$26,902,159. The record for the industry was established in 1920 at \$50,301,302.

Thirty-six factories operated in this industry during 1936, there being 26 works in Ontario, 5 in Quebec, 3 in Manitoba, 1 in Prince Edward Island, and 1 in Alberta. The plants in Ontario accounted for 96 per cent of the total output.

The industry employed an average of 5,508 workers in 1936 compared with 4,989 in 1935. The 893 salaried employees were paid \$1,445,633 during the year and the 4,615 wage-earners were paid \$4,595,987. The total of \$6,041,620 for salaries and wages was 13 per cent greater than the amount distributed for this purpose in 1935.

Capital employed in manufacturing operations amounted to \$56,121,427 at the end of 1936, including \$17,650,957 as the value of land, buildings and equipment, \$17,221,563 as the inventory value of materials and products, and \$21,249,107 as operating capital. Inventories were \$1.5 millions higher than in 1935 and the value of buildings, etc., was greater by \$0.3 millions; operating capital was \$1.2 millions lower than in 1935.

Imports of agricultural machinery increased to \$9,373,876 in 1936 from \$5,495,428 in the previous year. Gains were recorded for nearly every item on the list but the chief advance was for tractors and parts which increased to \$6,507,788 from \$3,347,598.

Exports and re-exports declined slightly in 1936, the total being \$6,068,155 compared with \$6,455,812 in 1935.

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Table 1 - PRINCIPAL STATISTICS OF THE FARM IMPLEMENTS AND MACHINERY INDUSTRY, 1920 - 1936.

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	12,938	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	18,854,537	38,947,963
1922	73	92,566,964	6,221	7,084,947	450,436	7,967,767	18,240,331
1923	67	92,277,040	7,792	9,112,214	840,413	11,592,401	26,026,419
1924	63	82,377,337	6,700	8,192,861	605,614	11,700,644	26,447,171
1925	61	81,861,961	7,559	9,089,221	642,769	11,089,186	24,770,216
1926	69	78,947,274	10,091	12,636,915	835,088	18,160,336	38,269,214
1927	65	88,981,203	11,011	13,315,500	805,876	19,317,415	42,996,288
1928	66	91,142,820	10,967	13,599,953	721,123	17,607,861	41,199,841
1929	62	103,356,773	11,408	14,775,989	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	3,597,554	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	3,632,821	8,917,756
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

Table 2 - INDEX NUMBERS OF PRODUCTION OF FARM IMPLEMENTS AND MACHINERY, 1920 - 1936.

Years	INDEX NUMBER		Years	INDEX NUMBER	
	Total Value(x)	Volume(xx)		Total Value(x)	Volume (xx)
1920	151	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			

(x) Gross selling value at works.

(xx) Based on 25 major items of production.

Table 3 - APPARENT CONSUMPTION OF FARM IMPLEMENTS AND MACHINERY IN CANADA, CALENDAR YEARS 1920 - 1936.

Years	Production of the Farm Implements and Machinery Industry (x) (Gross selling value at factories)	IMPORTS	EXPORTS AND RE-EXPORTS	APPARENT CONSUMPTION (xx)
	\$	\$	\$	\$
1920	50,301,302	23,123,201	12,197,994	61,226,509
1921	58,947,968	9,199,653	7,615,825	40,551,796
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	21,676,665
1925	24,770,216	11,234,839	12,374,176	23,650,879
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	52,385,827
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	6,068,155	19,263,181

(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.

Table 4 - PRINCIPAL STATISTICS, BY PROVINCES, 1935 and 1936.

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 selling value of products at works
		\$		\$	\$	\$	\$
<u>1935</u>							
Quebec	5	309,909	107	62,432	3,949	66,423	164,469
Ontario	25	54,674,771	4,799	5,161,589	464,013	6,220,163	13,142,562
Prince Edward Island .	1)						
Manitoba	3)	544,185	83	101,599	10,081	161,597	385,445
CANADA	34	55,528,865	4,989	5,325,620	478,043	6,448,183	13,692,476

Table 4 - PRINCIPAL STATISTICS, BY PROVINCES, 1935 and 1936. (concluded)

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>1936</u>							
Quebec	5	323,817	120	73,576	4,920	78,079	169,264
Ontario	26	55,285,112	5,294	5,850,840	516,019	6,957,063	15,385,517
Prince Edward 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

Table 5 - ESTABLISHMENTS GROUPED ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES, and CAPITAL EMPLOYED, 1936.

	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>(a) PRODUCTION</u>							
Under \$10,000	5	92,247	27	15,845	1,185	6,355	32,508
\$10,001 to \$25,000 ...	5	273,441	42	33,930	2,536	28,744	80,973
\$25,001 to \$50,000 ...	6	665,156	138	92,555	5,054	87,722	215,918
\$50,001 to \$100,000 ..	3	535,263	71	68,623	3,115	77,894	199,243
\$100,001 to \$500,000 .	9	6,727,432	807	779,066	44,040	659,343	1,652,276
\$500,001 to \$1,000,000	4	5,597,640	797	821,132	76,296	1,603,932	2,771,129
Over \$1,000,000	4	42,230,248	3,626	4,230,469	398,074	4,745,409	11,005,413
TOTAL	36	56,121,427	5,508	6,041,620	530,300	7,209,399	15,957,460
<u>(b) EMPLOYEES</u>							
3 to 10	10	364,199	63	51,120	3,505	38,941	119,956
11 to 20	4	329,395	56	51,387	2,349	64,008	152,020
21 to 50	7	1,300,482	236	210,238	14,344	263,093	625,041
51 to 100	4	2,692,548	318	296,209	17,149	205,674	536,485
101 to 200	6	7,308,550	891	865,617	69,154	1,398,388	2,575,287
Over 200	5	44,126,253	3,944	4,567,049	423,799	5,239,295	11,948,671
TOTAL	36	56,121,427	5,508	6,041,620	530,300	7,209,399	15,957,460
<u>(c) CAPITAL EMPLOYED</u>							
Under \$25,000	5	57,861	25	16,338	1,190	10,627	40,116
\$25,000 to \$100,000 ..	8	422,135	100	81,266	4,537	84,593	202,087
\$100,001 to \$500,000 .	9	1,815,286	301	283,091	17,415	517,172	793,764
\$500,001 to \$1,000,000	6	4,876,213	732	677,882	48,792	682,818	1,571,293
\$1,000,001 to \$2,000,000	4	6,719,684	724	752,574	60,292	1,368,780	2,344,787
Over \$2,000,000	4	42,230,248	3,626	4,230,469	398,074	4,745,409	11,005,413
TOTAL	36	56,121,427	5,508	6,041,620	530,300	7,209,399	15,957,460

Table 6 - CAPITAL EMPLOYED, BY CLASSES AND BY PROVINCES, 1935 and 1936.

Provinces	Present value of	Inventory value	Operating	TOTAL CAPITAL EMPLOYED
	lands, buildings, fixtures, machinery and tools	of materials on hand, stocks in process and finished products on hand	capital (cash, bills and accounts re- ceivable, etc.)	
	\$	\$	\$	\$
<u>1935</u>				
Quebec	76,277	67,399	166,233	309,909
Ontario	17,038,844	15,416,688	22,219,239	54,674,771
Other provinces	215,419	224,016	104,750	544,185
CANADA	17,330,540	15,708,103	22,490,222	55,528,865
<u>1936</u>				
Quebec	78,491	69,683	175,643	323,817
Ontario	17,373,051	16,934,745	20,977,316	55,285,112
Other provinces	199,415	216,935	96,148	512,498
CANADA	17,650,957	17,221,363	21,249,107	56,121,427

Table 7 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1935 and 1936.

Provinces	AVERAGE NUMBER OF EMPLOYEES					Salaries	Wages	TOTAL SALARIES and WAGES
	On salaries		On wages		TOTAL			
	Male	Female	Male	Female			\$	\$
<u>1935</u>								
Quebec	21	...	86	...	107	24,063	38,369	62,432
Ontario	607	179	3,964	49	4,799	1,254,807	3,906,782	5,161,589
Other provinces	19	4	60	...	83	44,183	57,416	101,599
CANADA	647	183	4,110	49	4,989	1,323,053	4,002,567	5,325,620
<u>1936</u>								
Quebec	23	...	97	...	120	27,823	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	4,595,987	6,041,620

Table 8 - WAGE-EARNERS, BY MONTHS, 1935 and 1936. (On the 15th of each month or nearest representative date).

Months	1 9 3 5			1 9 3 6		
	Male	Female	TOTAL	Male	Female	TOTAL
January	3,596	47	3,643	4,850	59	4,909
February	3,953	47	4,000	4,978	60	5,038
March	4,242	48	4,290	5,050	58	5,108
April	4,440	49	4,489	5,183	59	5,242
May	4,647	49	4,696	5,247	59	5,306
June	4,472	49	4,521	4,917	53	4,970
July	4,725	55	4,780	4,680	49	4,729
August	4,382	63	4,445	3,814	36	3,850
September	3,795	59	3,854	3,400	20	3,420
October	3,367	32	3,399	3,675	65	3,740
November	3,692	41	3,733	4,256	67	4,323
December	3,996	46	4,042	4,641	64	4,705
AVERAGE	4,110	49	4,159	4,559	56	4,615

Table 9 - NUMBER OF WAGE-EARNERS IN MONTHS OF HIGHEST EMPLOYMENT, GROUPED ACCORDING TO REGULAR HOURS WORKED PER WEEK, 1936.

NOTE - Data in this table were obtained by adding the figures reported by the different companies for their month of highest employment. Since the month of highest employment was not the same in every case, the totals given here are not for any particular month, and the grand total is greater than the highest monthly figure shown in Table 8.

Regular hours worked per week	Number of wage-earners	Regular hours worked per week	Number of wage-earners
40 hours or less	538	49 - 50 hours	130
41 - 43 hours	140	51 - 53 hours	50
44 hours	255	54 hours	125
45 - 47 hours	381	55 hours	18
48 hours	4,102	56 - 59 hours	78
		60 hours or over	228
		Grand Total	6,045

Table 10 - FUEL AND ELECTRICITY USED, 1935 and 1936.

Kinds	Unit of measure	1 9 3 5		1 9 3 6	
		Quantity	Cost at works	Quantity	Cost at works
Bituminous coal - Canadian	short tons	1,359	8,761	1,371	9,418
Imported	short tons	30,707	159,978	35,131	175,615
Anthracite coal	short tons	140	1,700	160	1,888
Coke	short tons	298	2,897	282	2,967
Gasoline	Imp. gal.	23,619	4,452	23,885	4,721
Kerosene	Imp. gal.	985	180	815	153
Fuel oil	Imp. gal.	1,249,670	88,362	1,405,964	105,098
Wood	cords	823	2,589	907	2,705
Gas - Manufactured	M cu.ft.	132,824	38,762	126,041	37,465
Natural	M cu.ft.	6,368	3,624	12,514	5,408
Electricity	K. W. H.	15,140,725	166,738	16,843,169	184,862
TOTAL .....	\$	...	478,043	...	530,300

Table 11 - POWER EQUIPMENT, 1935 and 1936.

	1 9 3 5		1 9 3 6	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and steam turbines	28	3,780	27	3,630
Gasoline, gas and oil engines	10	76	5	51
Hydraulic turbines or water wheels	3	116	3	116
Total Primary Equipment	41	3,972	35	3,797
Electric motors run by purchased power	1,407	19,813	1,478	20,265
TOTAL	1,448	23,785	1,513	24,062
Electric motors run by power generated by above primary units	10	72	10	72
Total Electric Motors	1,417	19,885	1,488	20,337
Boilers	52	6,405	57	6,601

Table 12 - POWER EQUIPMENT, 1936, 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 turbines	23	2,855	4	775
Gasoline, gas and oil engines	4	41	1	10
Hydraulic turbines or water wheels	3	116	...	...
Total Primary Equipment	30	3,012	5	785
Electric motors run by purchased power	1,418	19,021	60	1,244
TOTAL	1,448	22,033	65	2,029
Electric motors run by above primary units	10	72	...	...
Total Electric Motors	1,428	19,093	60	1,244
Boilers	54	6,301	3	300

Table 13 - MATERIALS USED IN MANUFACTURING, 1935 and 1936.

Materials	Unit of measure	1 9 3 5		1 9 3 6	
		Quantity	Total cost at works	Quantity	Total cost at works
		\$		\$	
Iron -					
Pig iron, all grades	long ton	13,705	269,940	16,194	325,778
Wrought iron	short ton	201	11,886	299	16,903
Malleable iron (except castings)	short ton	57	10,103	36	7,251
Iron castings of all kinds purchased	short ton	3,609	429,664	4,752	571,100
Steel, hot or cold rolled (except special alloy steel) -					
Steel castings	short ton	224	34,523	243	51,652
Bars and rods	short ton	30,321	1,523,088	22,495	1,069,983
Forgings	short ton	32	4,480	22	2,881
Plates	short ton	1,189	99,651	1,617	135,863
Shafting	short ton	499	38,254	572	44,380

Table 13 - MATERIALS USED IN MANUFACTURING, 1935 and 1936. (concluded)

Materials	Unit of measure	1 9 3 5		1 9 3 6	
		Quantity	Total cost at works	Quantity	Total cost at works
			\$		\$
Steel, hot or cold rolled (except special alloy steel) (concluded) -					
Sheets, plain	short ton	1,911	115,164	1,876	115,321
Sheets, galvanized	short ton	3,944	156,322	2,394	141,315
Strip	short ton	180	10,111	1,317	67,771
Stampings	short ton	110	16,500	518	80,712
Structural shapes (angles, channels, etc.)	short ton	1,994	93,570	1,734	84,262
Wire	short ton	216	15,235	183	13,381
Alloy steel	short ton	46	21,348	42	21,905
Scrap iron and steel of all kinds	short ton	9,209	96,957	9,932	100,184
Other iron and steel	short ton	57	6,588	...	442,268
Other metals (including scrap) -					
Aluminium	pound	9,478	2,692	18,624	4,730
Brass and bronze castings	pound	123,376	17,271	216,631	43,896
Brass and bronze sheets, etc.	pound	35,174	8,559	30,796	7,634
Copper sheets, bars, etc.	pound	115,143	15,892	170,324	22,885
Lead	pound	16,582	858	25,857	1,415
Nickel	pound	280	84	678	167
Tin	pound	17,228	8,746	25,719	13,099
Zinc	pound	103,702	5,766	177,074	9,037
Babbitt metals and solder	pound	37,602	8,473	49,248	11,057
Other metals .....	\$	...	22,862	...	12,351
Articles used for further manufacture -					
Parts for machines or vehicles .....	\$	...	951,727	...	1,035,989
Iron and steel pipe, tubing and fittings ...	\$	...	60,753	...	74,684
Bolts, nuts, rivets and screws .....	\$	...	140,839	...	161,580
Electrical goods, including motors .....	\$	...	45,161	...	71,203
Paints, oils and varnishes .....	\$	...	149,192	...	161,442
Rubber and leather goods .....	\$	...	94,240	...	92,870
Wheels - wooden	number	627	1,311	992	2,099
Wheels - metal	number	45,758	178,657	68,699	221,294
Separator parts .....	\$	...	105,211	...	253,920
Cotton, duck and other textiles .....	\$	...	265,053	...	244,581
Other articles of this class .....	\$	...	192,644	...	151,577
Other materials and supplies -					
Foundry coke (used in cupola; not for heat or power)	short ton	5,501	59,482	6,262	73,241
Moulding sands	short ton	5,188	17,453	4,342	15,234
Core sands	short ton	2,195	6,057	2,225	6,361
Plumbago	pound	3,967	307	4,027	312
Other foundry facings	pound	140,030	1,757	214,624	2,591
Patterns and models .....	\$	...	95	...	2,695
Lumber	M ft. b.m.	12,276	564,874	13,234	580,316
Firebrick	number	251,355	20,022	287,842	20,605
Fireclay	short ton	665	6,911	415	4,364
Cupola blocks	number	10,831	1,553	9,962	2,058
Core oil	Imp. gal.	13,934	8,052	18,131	11,974
Core compounds .....	\$	...	2,166	...	4,723
Shipping containers .....	\$	...	4,689	...	4,997
All other materials and supplies .....	\$	...	525,390	...	589,508
TOTAL .....	\$	...	6,448,185	...	7,209,399

Table 14 - PRODUCTS MADE, 1935 and 1936.

Products	1 9 3 5		1 9 3 6	
	Number	Selling value at works	Number	Selling value at works
		\$		\$
Farm Implements, horse and power -				
Tillage Implements -				
Cultivators	6,295	587,404	5,599	574,851
Harrow sections	14,544	56,651	14,225	67,752
Harrows, disc	5,395	199,929	5,898	250,880
Harrows, spike tooth	5,699	19,922	6,271	22,958
Harrows, spring tooth	4,333	63,460	6,705	88,965
Harrows, other	65	1,201	92	1,876
Harrow parts .....	...	12,136	...	10,513
Land rollers, lawn rollers and plough packers	391	15,817	777	25,681
Ploughs, disc, all kinds	1,187	96,305	2,584	263,498
Ploughs, single, walking	25,006	241,493	21,633	227,716
Ploughs, single, sulky	485	17,960	856	51,190
Ploughs, gang, walking	4,714	179,124	5,941	238,009
Ploughs, gang, sulky	3,223	231,660	2,123	140,736
Ploughs, gang, tractor	1,285	109,538	2,732	222,732
Ploughs, hillside	1,260	15,808	1,507	15,037
Plough parts .....	...	4,313	...	8,528
Harrow ploughs, one way discs, tiller combines	2,762	440,464	4,455	778,718
Scufflers	11,073	70,098	11,216	71,149
Weeders	189	11,729	1,150	63,306
Harvesting machines -				
Binders, corn	75	10,099	148	23,085
Binders, grain	16,177	2,403,099	15,519	2,481,072
Threshers and reaper-threshers	1,459	1,050,183	1,060	867,859
Thresher parts .....	...	61,639	...	124,640
Other, including parts .....	...	1,042	...	1,839
Planting and seeding machines -				
Drills, seed	4,481	519,125	7,358	964,582
Planters, corn and potato	2,419	85,896	2,589	97,176
Seeders, other	131	5,456	736	33,345
Haying machines -				
Hay loaders	524	36,840	1,259	91,741
Hay rakes	5,340	141,468	5,895	182,761
Mowers	11,859	716,026	11,033	691,458
Other haying machines .....	...	17,047	...	23,027
Other farm implements and machinery -				
Cream separators	11,627	772,050	10,398	689,339
Ensilage and straw cutters	432	15,034	378	49,011
Fanning mills, grain cleaners and grain blowers	1,922	166,333	2,003	177,098
Grain grinders and hammer mills	2,640	180,895	1,753	165,025
Manure spreaders	1,738	185,368	3,089	238,065

Table 14 - PRODUCTS MADE, 1935 and 1936. (concluded)

Products	1 9 3 5		1 9 3 6	
	Number	Selling value	Number	Selling value
		at works		at works
		\$		\$
Farm Implements, horse and power -				
Other farm implements and machinery - (concluded)				
Potato diggers	340	29,112	142	16,591
Pulpers and slicers	565	9,508	517	8,363
Sleighs, complete	2,613	95,041	1,898	69,438
Sprayers, power	102	34,655	150	56,246
Sprayers, other	1,607	31,153	1,485	24,398
Wagon and sleigh parts .....	...	66,685	...	61,673
Farm implements and machinery, not elsewhere specified(x)	...	594,046	...	489,501
Parts and accessories for farm implements and machinery .	...	2,705,306	...	3,533,285
Amount received for custom work and repairs .....	...	971,229	...	903,620
All other products (xx) .....	...	614,671	...	1,011,327
TOTAL .....	...	13,892,476	...	15,957,460

(x) Includes rebuilt threshers, dairy equipment, churns, milking machines, transplanters, trussers, incubators and other such equipment which were reported by only 1 or 2 companies and cannot be itemized separately.

(xx) Includes road-making machinery, warehouse trucks, gasoline engines, stoves, pumps, washing machines and other such articles made as secondary products by concerns in this group.

Table 15 - EXPORTS OF FARM IMPLEMENTS AND MACHINERY FROM CANADA, 1935 and 1936.

	1 9 3 5		1 9 3 6	
	Quantity	Value	Quantity	Value
	Number	\$	Number	\$
(a) EXPORTS				
Cream separators and parts .....	...	66,154	...	97,863
Milking machines and parts .....	...	95,538	...	188,625
Harvesters and binders	3,580	640,308	3,881	706,008
Hay rakes	1,670	50,302	1,234	42,630
Mowing machines	4,310	263,126	3,213	198,062
Reaper-threshers	624	548,683	445	478,733
Cultivators	8,563	254,114	6,576	186,464
Drills	1,638	217,854	2,120	275,599
Harrows, disc, and parts .....	...	71,354	...	102,410
Harrows and parts, other .....	...	63,085	...	59,539
Ploughs, disc, and parts .....	...	130,368	...	234,892
Ploughs and parts, other .....	...	1,031,539	...	1,275,055
Seeders	84	7,098	388	25,293
Threshing machine separators and parts .....	...	576,898	...	527,950
Garden and farm tools .....	...	135,909	...	163,726
Spades and shovels and parts	dozen. 15,925	100,230	16,206	102,653
Other farm implements and machines .....	...	242,399	...	293,555
Other parts for farm implements and machines .....	....	1,402,343	...	1,233,247
TOTAL .....	...	5,897,292	...	5,992,303
(b) RE-EXPORTS				
Farm implements and parts .....	...	558,520	...	75,852

Table 16 - IMPORTS INTO CANADA, EXPORTS AND RE-EXPORTS OF FARM IMPLEMENTS AND MACHINERY, BY PRINCIPAL COUNTRIES, 1935 and 1936.

Countries of origin for imports or of destination for exports	I M P O R T S		EXPORTS AND RE-EXPORTS	
	1 9 3 5	1 9 3 6	1 9 3 5	1 9 3 6
	¢	¢	¢	¢
Argentina	11,373	305	1,097,584	911,692
Australia	71	1,379	150,503	202,240
Belgium	2,233	10,366	28,552	28,228
British South Africa	9	2,130	1,142,591	1,013,227
Chile .....	...	...	37,741	60,420
Denmark	1,211	5,039	48,479	28,025
Finland	152	2,649	772	4,833
France	2,884	290	36,379	43,950
French Africa .....	...	...	13,600	38,039
Germany	29,385	41,177	21,836	14,743
Great Britain	206,641	217,200	776,136	978,940
Irish Free State	3,449	1,058	11,008	16,936
Italy	53	...	10,166	2,384
Mexico .....	...	...	26,515	12,324
Morocco .....	...	...	2,857	8,110
New Zealand	135	9,974	207,395	270,446
Norway .....	...	...	8,077	15,983
Portuguese Africa .....	...	...	32,267	37,826
Sweden	178,924	262,706	20,364	37,546
United States	5,045,643	8,811,262	2,566,314	2,064,394
Uruguay .....	...	...	59,023	76,882
Other countries	11,265	8,341	157,653	200,987
TOTAL	5,493,428	9,373,876	6,455,812	6,068,155

Table 17 - IMPORTS INTO CANADA OF FARM IMPLEMENTS AND MACHINERY, 1935 and 1936.

Items	1 9 3 5		1 9 3 6	
	Quantity	Value	Quantity	Value
	Number	¢	Number	¢
Cream separators, steel bowls for .....	...	8,657	...	2,003
Cream separators, and complete parts, not elsewhere specified .	11,299	296,289	17,077	412,706
Milk clarifiers and complete parts (From April 1, 1936) .....	...	...	...	1,910
Milking machines and attachments therefor, centrifugal machines for testing butter fat, milk or cream, and complete parts ....	...	23,012	...	24,829
Pasteurizers for dairy purposes, and complete parts	77	83,214	103	86,877
Power churns, power milk coolers, power butter printers, etc. .	...	49,244	...	70,803
Forks, pronged	dozen	2,151	2,212	13,514
Harvesters, self-binding or not, and parts	953	175,659	655	215,492
Hay loaders and parts	57	4,499	24	2,272
Hay tedders and parts	64	4,596	34	1,899
Mowing machines and parts	792	48,582	803	76,315
Potato diggers, planters and parts	241	19,441	260	19,333
Rakes, horse, and parts	280	10,855	432	19,156
Rakes, n.o.p. dozen	7,007	7,609	3,620	8,258
Reapers and parts	365	1,048	1	379
Scythes	dozen	2,572	2,356	15,327
Sickles or reaping hooks	dozen	741	1,243	3,357
Cultivators, horse hoes, scufflers, weeders and parts .....	...	53,370	...	106,017
Drills, seed, garden seeders and parts .....	...	33,426	...	108,145
Harrows, disc, and parts .....	...	17,088	...	20,223
Harrows and parts, other .....	...	29,560	...	31,270
Hoes	dozen	1,438	1,658	4,233
Ploughs, disc, and parts .....	...	3,032	...	30,924

Table 17 - IMPORTS INTO CANADA OF FARM IMPLEMENTS AND MACHINERY, 1935 and 1936. (concluded)

Items	1 9 3 5		1 9 3 6	
	Quantity	Value	Quantity	Value
	Number	\$	Number	\$
Ploughs and parts, other .....	...	55,840	...	194,603
Rollers, farm, field, lawn or garden, and soil packers and parts	178	3,665	25	1,494
Fanning mills, pea viners and corn husking machines and parts .	200	14,817	102	28,728
Harvesters in combination with threshing machine separators and complete parts	2	1,928	92	184,148
Threshing machine separators	14	8,290	176	133,491
Threshing machine separators, parts of, including wind stackers, baggers, weighers, and self-feeders therefor, and complete parts .....	...	10,386	...	130,625
Apparatus especially designed for sterilizing bulbs; pressure testing apparatus for determining maturity of fruit, and parts	...	...	...	89
Equipment for generating electric power for farm purposes only, viz., engine gas tank, generator, storage battery and switch-board, and complete parts .....	...	25,815	...	57,218
Fodder, feed or ensilage cutters and parts	251	52,641	581	57,700
Fruit and vegetable grading, washing and wiping machines and combination bagging and weighing machines, and complete parts.	...	28,850	...	43,144
Grain crushers and grain or hay grinders and parts	101	16,050	164	27,018
Hay presses and parts	20	7,162	31	13,960
Knives, edging	89	432	136	809
Knives, hay or straw	88	700	...	4
Manure spreaders and parts	96	9,072	237	26,614
Post-hole diggers and parts	927	1,350	1,109	1,583
Spades and shovels of iron and steel, other	8,792	23,449	7,514	18,908
Spraying and dusting machines and parts, including hand sprayers and parts .....	...	59,396	...	118,097
Stumping machines and complete parts thereof	2	196	3	497
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 .....	...	1,672	5	13,526
Traction engines, internal combustion, for farm purposes, valued at not more than \$1,400 each	2,208	1,752,886	5,152	4,398,423
Complete parts of traction engines, internal combustion, for farm purposes, valued at not more than \$1,400 each, and auto-mobile traction attachment and parts .....	...	1,501,342	...	1,960,970
Other traction engines for farm purposes	36	82,132	70	121,691
Other parts of traction engines for farm purposes .....	...	9,566	...	13,178
Windmills and complete parts thereof not including shafting ...	...	18,787	...	45,617
Pruning hooks, shears, animal dehorning instruments and all other agricultural implements, not elsewhere provided for, and parts .....	...	66,997	...	70,633
Parts of agricultural implements for repairs .....	...	835,724	...	435,466
TOTAL .....	...	5,493,428	...	9,373,876

Table 18 - PRODUCTION OF PLOUGHS IN CANADA, 1931 - 1936. (Including some ploughs made in other industries, and harrow ploughs, tiller combines or one-way discs).

Kind		1931	1932	1933	1934	1935	1936
Disc (x)	No.	903	851	1,829	2,860	5,949	6,859
	\$	160,446	173,183	277,461	367,056	536,767	1,042,216
Single, walking	No.	14,194	9,759	10,952	20,462	25,021	21,655
	\$	163,283	96,284	105,335	200,781	241,793	227,716
Gang, walking	No.	954	535	620	5,678	4,714	5,941
	\$	42,125	17,822	21,228	138,154	179,124	238,009
Single, sulky	No.	1,162	314	213	441	485	856
	\$	48,589	11,088	7,234	16,914	17,960	31,190
Gang, sulky	No.	442	1,086	276	1,576	3,223	2,123
	\$	31,847	55,775	11,888	102,030	251,660	140,756
Gang, tractor	No.	3,383	608	402	639	1,283	2,732
	\$	378,894	57,977	26,437	54,858	109,538	222,732
Hillside	No.	290	210	841	1,412	1,260	1,507
	\$	3,737	3,132	9,504	18,814	13,808	15,037
All other,	No.	1,534	1,142	900	918	918	1,119
	\$	55,950	48,366	25,473	21,570	21,570	31,970
TOTAL	No.	22,862	14,505	16,033	31,986	40,855	42,550
	\$	884,871	463,627	484,560	920,177	1,352,220	1,949,606

(x) Includes 4,455 harrow-ploughs or tiller combines valued at \$778,718 in 1936, 2,762 at \$440,464 in 1935, 1,228 at \$197,967 in 1934, and 731 at \$105,400 in 1933.

Table 19 - APPARENT CONSUMPTION (x) OF PLOUGHS IN CANADA, 1931 - 1936.

		1931	1932	1933	1934	1935	1936
PRODUCTION	No.	22,862	14,505	16,033	31,986	40,855	42,550
	\$	884,871	463,627	484,560	920,177	1,352,220	1,949,606
IMPORTS							
(Ploughs and parts)	\$	45,454	44,906	10,481	41,022	58,872	225,527
EXPORTS							
(Ploughs and parts)	\$	355,128	238,951	254,626	689,321	1,161,907	1,509,947
APPARENT CONSUMPTION	\$	573,197	269,582	240,415	271,878	249,185	665,186

Table 20 - APPARENT CONSUMPTION (x) OF MOWERS IN CANADA, 1931 - 1936.

		1931	1932	1933	1934	1935	1936
PRODUCTION	No.	8,340	4,155	3,796	8,924	11,859	11,033
	\$	511,392	209,832	202,955	545,176	716,026	691,458
IMPORTS							
(Mowing machines and parts) \$		314	110	244	471	792	803
	\$	21,918	13,337	15,691	26,299	48,582	76,315
EXPORTS							
(Mowing machines)	No.	3,120	826	416	1,929	4,310	3,213
	\$	168,708	42,594	23,664	114,615	263,126	198,062
APPARENT CONSUMPTION	No.	5,534	3,439	3,624	7,466	8,341	8,623
	\$	364,602	180,575	194,982	456,860	501,482	569,711

(x) Changes in factory warehouse stocks have not been taken into consideration.

Table 21 - PRODUCTION OF HARROWS IN CANADA, 1931 - 1936. (Includes some harrows made in other industries but excludes harrow ploughs, tiller combines or one-way discs).

Kinds		1931	1932	1933	1934	1935	1936
Disc	No.	4,039	1,335	949	2,764	5,395	5,898
	\$	216,031	46,788	32,606	100,277	199,929	230,880
Spike tooth	No.	2,052	234	570	2,186	5,699	6,271
	\$	12,758	3,549	3,445	13,137	19,922	22,958
Spring tooth	No.	2,243	1,218	1,213	3,135	4,333	6,705
	\$	31,787	18,027	17,730	46,156	63,460	88,965
Kind not specified	No.	344	301	200	16	315	437
	\$	20,000	21,025	7,680	400	8,701	12,226
Harrow sections	No.	8,871	3,009	3,446	6,698	14,544	14,225
	\$	48,519	11,066	9,022	18,565	56,631	67,752
TOTAL	No.	17,549	6,097	6,378	14,799	30,286	33,536
	\$	329,095	100,455	70,489	178,535	348,643	422,781

Table 22 - APPARENT CONSUMPTION(x) OF HARROWS IN CANADA, 1931 - 1936.

		1931	1932	1933	1934	1935	1936
PRODUCTION	No.	17,549	6,097	6,378	14,799	30,286	33,536
(Harrows and sections)	\$	329,095	100,455	70,489	178,535	348,643	422,781
IMPORTS	\$	33,823	7,396	3,885	16,181	46,648	52,093
(Harrows and parts)							
EXPORTS	\$	51,381	24,422	39,149	80,816	134,439	161,948
(Harrows and parts)							
APPARENT CONSUMPTION	\$	311,537	83,429	35,225	113,900	260,852	312,926

Table 23 - APPARENT CONSUMPTION(x) OF BINDERS IN CANADA, 1931 - 1936.

		1931	1932	1933	1934	1935	1936
PRODUCTION	No.	3,485	2,402	6,317	7,253	16,177	15,519
(Grain binders)	\$	586,133	369,810	815,380	1,122,829	2,403,099	2,481,072
IMPORTS	No.	263	452	400	448	953	655
(Harvesters, self-binding or not)	\$	52,476	94,436	71,462	68,080	175,659	215,492
EXPORTS	No.	1,711	720	822	1,681	3,580	3,881
(Harvesters and binders)	\$	325,554	133,957	131,012	281,685	640,308	706,008
APPARENT CONSUMPTION	No.	2,037	2,134	5,895	6,020	13,550	12,293
	\$	313,055	328,289	755,830	909,224	1,965,450	1,990,566

(x) Changes in factory warehouse stocks have not been taken into consideration.

Table 24 - APPARENT CONSUMPTION(x) OF THRESHERS AND REAPER-THRESHERS IN CANADA, 1931 - 1936. (Including some threshers made in other industries)

		1931	1932	1933	1934	1935	1936
PRODUCTION	No.	918	418	351	738	1,459	1,060
(Threshers and reaper-threshers)	\$	830,202	389,174	250,921	609,325	1,050,183	867,859
IMPORTS	No.	67	45	68	37	16	268
(Threshing machine separators; and harvesters in combination with threshing machine separators)	\$	62,381	42,145	53,899	32,619	10,218	317,639
EXPORTS	\$	407,173	261,146	50,068	434,445	1,125,581	806,683
(Reaper-threshers and threshing machine separators and parts)							
APPARENT CONSUMPTION	\$	485,410	170,173	254,752	207,499	(-)65,180	378,815

Table 25 - APPARENT CONSUMPTION(x) OF SEED DRILLS IN CANADA, 1931 - 1936.

		1931	1932	1933	1934	1935	1936
PRODUCTION	No.	2,819	716	256	1,055	4,481	7,358
	\$	457,707	92,462	33,622	118,976	519,125	964,582
IMPORTS	No.	1,121	...	...	...	...	...
(Seed drills, garden seeders and parts)	\$	55,894	7,196	12,251	26,433	33,426	108,145
EXPORTS	No.	603	492	190	813	1,638	2,120
(Drills)	\$	81,617	69,198	32,607	111,506	217,854	275,599
APPARENT CONSUMPTION	No.	3,337	...	...	...	...	...
	\$	431,974	30,460	13,266	33,953	334,697	797,129

(x) Changes in factory and warehouse stocks have not been taken into consideration.

NOTE - The minus quantity shown as APPARENT CONSUMPTION in Table 24 is probably due to the disposal of accumulated inventories.

Table 26 - 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	185,510,000	28.5
Alberta	116,301,000	17.9
British Columbia	12,886,000	2.0
CANADA	650,664,000	100.0

Table 27 - TOTAL VALUE OF IMPLEMENTS OR MACHINERY ON FARMS IN PRAIRIE PROVINCES, CENSUS 1936 compared with CENSUS 1931.

Provinces	1936	1931
	\$	\$
Manitoba	35,828,300	54,847,000
Saskatchewan	119,321,100	185,510,000
Alberta	80,039,700	116,301,000

Table 28 - 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	45,383	355	130	10,107	36,291	248
Saskatchewan	129,177	6,019	2,833	27,046	76,024	414
Alberta	73,487	2,523	1,337	12,457	48,421	366
British Columbia	2,318	20	5	534	6,341	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	3,885
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 29 - 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	45,383	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	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, 1936.

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 1936.

<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 Kamouraska
Dion et Frere	Ste. Therese de Blainville
La Cie Jutras, Ltee.	Victoriaville
Moody, Matthew, & Sons Co.	Terrebonne
<u>ONTARIO</u> -	
Bissell, T. E., Company Ltd.	Elora
Canadian Potato Machinery Co. Ltd.	Jarvis St., Galt
Cockshutt Plow Co. Ltd.	Mohawk St., Brantford
Deere, John, Plow Co. Ltd.	Canal Bank, Welland
De Laval Company Ltd., The	113 Park St., Peterborough
Ebersol, John R.	Mill St., Milverton
Ernst Bros. Co. Ltd.	Mount Forest
Erie Iron Works Ltd.	116 Talbot St., St. Thomas
Goodison, John, Thresher Co. Ltd.	Essex and Mitton Sts., 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., Brantford
Massey-Harris Company Ltd.	915 King St., Toronto (Head Office)
New Perfection Sprayer Co.	65 Main St., Galt
Percival Plow & Metal Works Ltd.	Merrickville
Renfrew Machinery Co. Ltd.	Lochiel St., Renfrew
Sawyer-Massey, Ltd.	Wellington St. N., Hamilton
Spramotor Ltd.	1109 York St., London
Sunshine Waterloo Ltd.	Sunshine Ave., Waterloo
Tudhope-Anderson Co. Ltd.	Orillia
Waterloo Manufacturing Co. Ltd.	67 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
<u>MANITOBA</u> -	
Brandon Machine and Implement Works	Brandon
Gregg Mfg. Co. Ltd.	601 Bowman Ave., Winnipeg
Hart-Emerson Company Ltd., The	1425 Whyte Ave., Winnipeg
<u>ALBERTA</u> -	
Samson Rotary Rod Weeder Ltd.	1019 - 10th Avenue West, Calgary.

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