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MINING, METALLURGICAL AND CHEMICAL BRANCH
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ANNUAL INDUSTRY REPORT

IRON AND STEEL AND THEIR PRODUCTS GROUP

THE FARM IMPLEMENTS AND MACHINERY INDUSTRY, 1938

Production by establishments in the farm implements and machinery industry was 12 per cent greater in value in 1938 than in 1937 and 33 per cent higher than in 1936. Actual values for these years were as follows: \$21,299,185 in 1938, \$18,961,394 in 1937 and \$15,957,460 in 1936.

Imports of agricultural machinery increased to \$20,319,626 in 1938 from \$17,233,658 in 1937, a gain of 18 per cent. The value of farm tractors and parts rose to \$14,826,580 from \$13,487,264 while other farm equipment advanced to \$5,493,046 from \$3,746,394.

Exports and re-exports of farm implements were appraised at \$7,871,931 in 1938, a decline of 21 per cent from the \$10,000,033 reported for 1937.

Thirty-eight factories were included in the farm implements industry in 1938, there being 27 works in Ontario, 5 in Quebec, 4 in Manitoba and 1 each in Alberta and Prince Edward Island. The works in Ontario accounted for 96 per cent of the total output.

This industry employed an average of 6,458 workers during the year. The 1,100 salaried employees received \$1,680,663 and the 5,358 wage-earners were paid \$5,829,043. The total of \$7,509,706 for salaries and wages was 2 per cent higher than the amount distributed for this purpose in 1937.

Capital employed in manufacturing operations amounted to \$63,761,644, including \$16,998,238 as the value of land, buildings and factory equipment, \$21,003,667 as the inventory value of materials and products on hand and \$25,759,739 as operating capital. The value of buildings, etc., was one million dollars higher than in 1937 and operating capital was up \$2.4 millions, but inventories declined \$0.6 million.

Sales of farm implements and equipment in Canada were valued at \$36,336,056 (at wholesale prices to dealers) in 1938 or about 18 per cent more than in 1937 when the corresponding value was \$30,775,198. 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, 1920-1938

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	12,838	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	38,947,968
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	840,413	11,592,401	26,026,419
1924	63	82,877,387	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	10,867	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	98,684,828	7,405	9,564,049	661,392	11,353,523	26,902,139
1931	57	84,501,405	4,471	4,997,732	381,925	3,597,534	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
% Change 1938 from 1937	-	+ 4.6	+ 0.2	+ 2.2	- 6.0	+ 3.1	+ 12.3

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, 1923-1938

Years	INDEX NUMBER		Years	INDEX NUMBER	
	Total Value (x)	Volume		Total 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

(x) Gross selling value at works.

Table 3 - APPARENT CONSUMPTION OF FARM IMPLEMENTS AND MACHINERY IN CANADA, CALENDAR YEARS 1920-1938.

Years	Production of the Farm Implements and Machinery Industry (x) (Gross selling value at works)	IMPORTS	EXPORTS AND RE-EXPORTS	APPARENT CONSUMPTION (xx)
	\$	\$	\$	\$
1920	50,301,302	23,123,201	12,197,994	61,226,509
1921	38,947,968	9,199,653	7,615,825	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	31,845,326	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
1937	18,961,394	17,233,658	10,000,033	26,195,019
1938	21,299,185	20,319,626	7,953,738	33,665,073

(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, 1937 and 1938.

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
		\$		\$	\$	\$	\$
1937							
Quebec	5	378,237	158	96,578	6,403	113,517	322,642
Ontario	26	59,986,980	6,166	7,109,663	549,811	8,950,605	18,139,802
Prince Edward 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
1938							
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)						
Alberta	1)	81,881	13	10,943	839	6,734	28,052
Manitoba	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

Table 5 - ESTABLISHMENTS GROUPED ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES, and CAPITAL EMPLOYED, 1938.

	Number of plants	Capital employed	Average number of employees	Gross selling value of products at works
		\$		\$
(a) PRODUCTION				
Under \$10,000	4	158,519	21	30,458
\$10,001 to \$25,000	7	286,914	57	118,686
\$25,001 to \$50,000	3	403,248	53	135,470
\$50,001 to \$100,000	5	483,047	176	318,353
\$100,001 to \$500,000	10	6,256,150	635	1,581,007
\$500,001 to \$1,000,000	4	4,279,797	710	2,835,481
Over \$1,000,000	5	51,893,969	4,806	16,279,730
TOTAL	38	63,761,644	6,458	21,299,185
(b) EMPLOYEES				
1 to 10	10	420,827	61	157,129
11 to 20	6	392,263	91	277,111
21 to 50	5	1,537,729	169	624,108
51 to 100	8	4,974,536	585	1,938,822
101 to 200	3	3,727,984	497	1,213,289
Over 200	6	52,708,305	5,055	17,088,726
TOTAL	38	63,761,644	6,458	21,299,185
(c) CAPITAL EMPLOYED				
Under \$25,000	6	93,194	32	94,074
\$25,000 to \$100,000	9	537,725	148	322,125
\$100,001 to \$500,000	8	1,543,930	287	825,196
\$500,001 to \$1,000,000	6	3,808,899	697	1,961,009
\$1,000,001 to \$2,000,000	3	3,850,820	360	1,670,254
Over \$2,000,000	6	53,927,076	4,934	16,426,527
TOTAL	38	63,761,644	6,458	21,299,185

Table 6 - CAPITAL EMPLOYED, BY CLASSES AND BY PROVINCES, 1937 and 1938.

Provinces	Present value of lands, buildings, fixtures, machinery and tools	Inventory value of materials on hand, stocks in process and finished products on hand	Operating capital (cash, bills and accounts re- ceivable, etc.)	TOTAL CAPITAL EMPLOYED
	\$	\$	\$	\$
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	259,787	98,106	562,098
CANADA	15,974,029	21,636,169	23,317,117	60,927,315
1938				
Quebec	90,801	94,667	244,395	429,863
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

Table 7 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1937 and 1938.

Provinces	AVERAGE NUMBER OF EMPLOYEES					Salaries	Wages	TOTAL SALARIES and WAGES
	On salaries		On wages		TOTAL			
	Male	Female	Male	Female				
						\$	\$	\$
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	85,124	143,802
CANADA	701	216	5,466	63	6,446	1,538,918	5,811,125	7,350,043
1938								
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	23	6	88	1	118	51,502	74,309	125,811
Other provinces	5	2	6	...	13	6,165	4,778	10,943
CANADA	860	240	5,308	50	6,458	1,680,663	5,829,043	7,509,706

Table 8 - WAGE-EARNERS, BY MONTHS, 1937 and 1938. (On the last day of each month or nearest work day).

Months	1937			1938		
	Male	Female	TOTAL	Male	Female	TOTAL
January	4,534	41	4,575	6,073	56	6,129
February	4,877	56	4,933	6,183	78	6,261
March	5,257	55	5,312	5,980	70	6,050
April	5,304	49	5,353	5,769	50	5,819
May	4,551	58	5,499	5,417	45	5,462
June	5,576	64	5,640	5,413	40	5,453
July	5,556	68	5,624	5,226	40	5,266
August	5,429	65	5,494	4,621	30	4,651
September	5,370	70	5,440	4,076	19	4,095
October	5,717	78	5,795	4,596	39	4,635
November	6,205	77	6,282	5,223	60	5,283
December	6,274	80	6,354	5,109	61	5,170
AVERAGE	5,466	63	5,529	5,308	50	5,358

Table 9 - REGULAR HOURS WORKED PER WEEK BY WAGE-EARNERS, 1938.

Regular hours worked per week	Per cent of wage-earners	Regular hours worked per week	Per cent of wage-earners
30 hours or less	0.7	49 - 50 hours	8.9
31 - 43 hours	6.2	51 - 54 hours	2.7
44 hours	7.4	55 hours	1.0
45 - 47 hours	29.9	56 - 64 hours	5.1
48 hours	37.9	65 hours and over	0.2

Table 10 - FUEL AND ELECTRICITY USED, 1937 and 1938.

Kinds	Unit of measure	1937		1938	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Bituminous coal -					
Canadian	short tons	2,394	14,350	807	6,947
Imported	short tons	34,322	174,609	30,454	161,270
Anthracite coal	short tons	209	2,275	743	5,489
Coke	short tons	320	3,419	302	3,007
Gasoline	Imp. gal.	20,549	3,434	25,464	4,229
Kerosene	Imp. gal.	1,025	200	1,390	238
Fuel oil	Imp. gal.	2,427,712	130,385	1,614,606	120,887
Wood	cords	814	3,641	731	2,700
Gas - Manufactured	M cu. ft.	170,173	48,691	196,015	56,247
Natural	M cu. ft.	11,693	6,300	7,983	4,421
Other fuel	xxxxxx	...	6	...	200
Electricity	K. W. H.	18,367,948	179,930	17,176,693	167,728
TOTAL .....	\$	...	567,240	...	533,363

Table 11 - POWER EQUIPMENT, 1937 and 1938.

	1937		1938	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and steam turbines	20	3,455	20	3,385
Diesel engines .....	...	...	1	6
Gasoline, gas and oil engines	5	32	7	54
Hydraulic turbines or water wheels	3	116	3	116
Total Primary Equipment	25	3,487	31	3,561
Electric motors run by purchased power	1,434	19,332	1,490	19,007
TOTAL	1,462	22,935	1,530	22,568
Stationary boilers	45	5,276	48	5,797

Table 12 - POWER EQUIPMENT, 1938, 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	16	2,610	4	775
Diesel engines .....	...	...	1	6
Gasoline, gas and oil engines	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

Table 13 - MATERIALS USED IN MANUFACTURING, 1937 and 1938. (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	1937		1938	
		Quantity	Total cost at works	Quantity	Total cost at works
			\$		\$
Iron -					
Pig iron, all grades	long ton	23,238	533,062	14,289	357,253
Iron castings of all kinds purchased ...	short ton	5,064	541,354	5,315	605,222
Steel, hot or cold rolled (except special alloy steel) -					
Steel castings	short ton	245	46,238	163	21,604
Bars and rods	short ton	42,253	2,418,451	36,733	2,078,382
Forgings	short ton	43	5,963	828	55,534
Plates	short ton	2,450	249,090	985	68,762
Shafting	short ton	476	45,469	632	65,981
Sheets, plain	short ton	4,977	315,752	4,195	316,254
Sheets, galvanized	short ton	1,930	153,705	2,317	186,211
Strip	short ton	1,728	98,173	1,709	105,413
Stampings	short ton	1,012	149,354	...	234,395
Structural shapes (angles, channels, etc.)	short ton	2,800	130,042	1,793	194,653
Wire	short ton	225	16,716	289	20,857
Scrap iron and steel of all kinds	short ton	16,353	219,070	9,426	154,143
Pipe, tubing and fittings of iron and steel	xxxxx	...	93,832	...	102,537
Other iron and steel	xxxxx	...	47,792	...	61,236
Alloy steel -					
Carbon and alloy tool steels, including high speed	short ton)			45	27,668
Stainless steels	short ton)	44	28,017	16	15,577
Other alloy steels	short ton)			...	3,947

Table 13 - MATERIALS USED IN MANUFACTURING, 1937 and 1938. (Quantity figures should not be taken as being absolutely accurate, as in a few instances it was necessary to make estimates) - (Concluded).

Materials	Unit of measure	1937		1938	
		Quantity	Total Cost at works	Quantity	Total Cost at works
Other metals (including scrap) -			\$		\$
Aluminium.....	pound	19,939	4,586	13,839	3,325
Brass and bronzes.....	pound	360,320	56,781	266,870	39,846
Copper.....	pound	243,238	31,975	41,030	10,395
Lead.....	pound	13,413	877	16,843	1,509
Nickel.....	pound	7,807	1,829	6,755	1,671
Tin.....	pound	24,565	13,937	26,482	12,953
Zinc.....	pound	138,928	8,767	123,192	7,672
Babbitt metals and solder.....	pound	48,433	12,953	69,805	15,710
Other metals.....	\$	...	10,488	-	643
Other materials and supplies -					
Parts for machines or vehicles.....	\$	...	1,588,919	-	1,670,907
Bolts, nuts, rivets and screws.....	\$	...	191,428	-	191,790
Electrical goods, including motors.....	\$	...	114,295	-	74,309
Paints, oils and varnishes.....	\$	...	199,555	-	219,537
Rubber and leather goods.....	\$	...	115,771	-	155,069
Wheels.....	\$	...	171,513	-	257,160
Cotton, duck and other textiles.....	\$	...	194,344	-	180,316
Foundry coke (used in cupola; not for heat or power).....	short ton	7,712	98,003	6,355	80,054
Moulding sands.....	short ton	3,771	15,917	3,307	15,023
Core sands.....	short ton	3,962	11,773	2,514	7,167
Plumbago.....	pound	4,720	393	7,631	601
Other foundry facings.....	pound	316,462	3,771	223,114	2,837
Patterns and models.....	\$	...	6,604	-	10,299
Lumber.....	M ft. b.m.	17,052	688,845	13,366	699,401
Firebrick.....	number	424,173	28,630	253,365	18,958
Fireclay.....	short ton	379	2,658	291	2,166
Cupola blocks.....	number	14,033	2,354	-	1,243
Core oil.....	Imp.gal.	22,467	14,372	15,391	10,166
Core compounds.....	\$	...	9,581	-	7,382
Shipping containers.....	\$	...	8,147	-	19,578
All other materials and supplies.....	\$	...	617,886	-	1,218,464
TOTAL.....	\$	...	9,319,032	-	9,611,780

Table 14 - PRODUCTS MADE, 1937 and 1938.

	1937		1938	
	Number	Selling value at works	Number	Selling value at works
Tillage Implements -		\$		\$
Cultivators, corn.....	1,707	62,407	2,363	111,077
Cultivators, other.....	4,257	303,583	6,716	552,619
Harrows - Disc (except one-way discs).....	9,716	449,253	17,530	486,950
Spike tooth sections.....	25,703	85,489	14,857	72,716
Spring tooth.....	7,975	122,639	6,922	111,964
Harrow parts and attachments.....	...	15,709	-	13,849
Hoes, horse.....	968	8,608	1,600	18,649
Land rollers, packers and soil pulverizers.....	1,484	46,786	1,330	40,875
Ploughs - Mould board, horse drawn -				
Walking, single furrow.....	25,697	227,751	38,322	433,515
Walking, two furrow and larger.....	15,613	224,272	1,084	58,252
Sulky, single furrow.....	543	23,230	1,509	67,006
Gang, two furrow and larger.....	10,411	577,428	5,433	333,478
Mould board, tractor drawn, all types.....	5,301	429,281	6,645	584,250
Disc - horse drawn, all types.....	1,321	95,779	1,469	183,148
Disc - tractor drawn, all types.....	878	144,687	854	126,158
All other (breakers, etc.).....	476	18,198	417	24,177
Plough parts and attachments.....	...	13,101	-	8,143
One-way discs, harrow ploughs, and tiller combines...	7,639	999,086	3,971	730,006
Scufflers.....	17,643	115,084	15,186	113,795

Table 14 - PRODUCTS MADE, 1937 and 1938 (Concluded).

	1937		1938	
	Number	Selling value at works \$	Number	Selling value at works \$
Tillage Implements - (Con.)				
Weeders.....	1,994	110,309	1,987	129,264
Planting and Seeding Machines -				
Fertilizer sowers.....	404	30,569	943	67,495
Seed drills, press and wheel.....	6,664	806,115	9,568	1,450,079
Planters, corn.....	3,833	119,265	4,220	232,266
Harvesting Machines -				
Binders, corn and cotton.....	577	85,137	450	80,774
Binders, grain - Horse.....	8,521	1,423,846	13,546	2,320,080
Tractor.....	1,014	243,697	1,803	540,582
Threshers and reaper-threshers combines.....	1,981	1,707,686	3,139	2,499,113
Thresher parts.....	...	101,015	-	108,916
Other, including pick-ups, harvester stackers and push harvesters.....	...	24,166	-	128,448
Haying Machines -				
Hay loaders.....	1,254	93,662	1,840	145,879
Hay rakes - Dump.....	6,286	192,627	6,720	211,600
Side, including combination side rakes and tedders.....	263	20,548	358	30,792
Mowers.....	11,320	740,567	11,128	782,843
Other, including hay carriers, hay forks, hay tedders and hay presses.....	...	12,478	-	10,134
Other Farm Implements -				
Barn and stable equipment.....	...	51,500	-	94,200
Corn shellers.....	728	6,552	684	10,523
Cream separators.....	10,610	663,986	10,887	696,047
Ensilage and straw and stalk cutters.....	339	18,033	256	12,057
Evensers.....	11,071	14,805	4,690	5,642
Fanning mills and grain cleaners.....	1,956	182,882	-	182,207
Grain grinders.....	2,008	105,466	-	100,317
Hammer mills.....	409	38,565	390	49,885
Manure spreaders.....	2,949	337,589	2,982	358,137
Potato diggers.....	485	37,963	507	50,299
Pulpers and slicers.....	711	11,877	733	12,829
Sleighs, complete.....	2,681	132,000	784	37,570
Sprayers, hand.....	1,461	32,198	1,520	52,004
Sprayers, power.....	127	52,189	284	81,266
Wagons, wagon boxes and gears.....	...	89,800	-	161,511
Wheelbarrows.....	4,056	20,174	3,257	18,340
Farm implements and machinery, not elsewhere specified	...	642,299	-	332,683
Parts and accessories for farm implements and machinery.....	...	4,862,717	-	3,262,554
Amount received for custom work and repairs.....	...	823,646	-	1,445,653
All other products (x).....	...	1,163,095	-	1,526,569
TOTAL.....	...	18,961,394	-	21,299,185

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

Table 15 - IMPORTS INTO CANADA OF FARM IMPLEMENTS AND MACHINERY, 1937 and 1938.

Items	1937		1938	
	Quantity	Value	Quantity	Value
Cream separators, steel bowls for.....	Number	\$	Number	\$
Cream separators, and complete parts, not elsewhere specified.....	...	2,667	-	3,564
Milk clarifiers and complete parts.....	22,920	560,890	18,049	490,291
Milking machines and attachments therefor, centrifugal machines for testing butter fat, milk or cream, and complete parts.....	...	4,172	-	13,157
Pasteurizers for dairy purposes, and complete parts... Power churns, power milk coolers, power butter printers, etc.....	141	95,427	200	131,689
Forks, pranged.....	...	120,576	-	92,641
Harvesters, soft-binding or not, and parts.....	2,328	15,504	2,017	11,154
Hay loaders and parts.....	1,186	344,278	2,638	767,571
	161	14,451	89	9,172

Table 15 - IMPORTS INTO CANADA OF FARM IMPLEMENTS AND MACHINERY, 1937 and 1938 (Concluded).

Items	1937		1938	
	Quantity	Value	Quantity	Value
	Number	\$	Number	\$
Hay tedders and parts.....	2	1,107	5	614
Mowing machines and parts.....	826	85,922	977	118,216
Potato diggers, planters and parts.....	573	65,086	569	65,634
Rakes, horse, and parts.....	489	26,573	604	45,186
Rakes, n.o.p.....dozen.	6,574	10,641	4,517	9,409
Reapers and parts.....	47	2,858	16	9,183
Scythes.....dozen.	2,863	18,288	2,230	16,008
Sickles or reaping hooks.....dozen.	782	2,790	721	2,390
Cultivators, horse hoes, scufflers, weeders and parts..	...	148,996	-	258,767
Drills, seed, garden seeders and parts.....	...	164,512	-	233,219
Harrows, disc, and parts.....	...	48,181	-	48,984
Harrows and parts, other.....	...	68,543	-	93,796
Hoes.....dozen.	1,347	4,034	921	3,204
Ploughs, disc, and parts.....	...	114,601	-	66,851
Ploughs and parts, other.....	...	458,089	-	540,371
Rollers, farm, field, lawn or garden, and soil packers and parts.....	219	7,203	365	6,814
Fanning mills, pea viners and corn husking machines and parts.....	375	54,929	218	43,361
Harvesters in combination with threshing machine separators and complete parts.....	189	257,410	702	842,200
Threshing machine separators.....	121	97,440	580	438,301
Threshing machine separators, parts of, including wind stackers, baggers, weighers, and self-feeders thereof, and complete parts.....	...	100,738	-	157,315
Apparatus especially designed for sterilizing bulbs; pressure testing apparatus for determining maturity of fruit, and parts.....	...	177	-	9
Equipment for generating electric power for farm pur- poses only, viz., engine gas tank, generator, storage battery and switchboard, and complete parts.....	...	80,233	-	95,275
Fodder, feed or ensilage cutters and parts.....	325	89,974	577	111,718
Fruit and vegetable grading, washing and wiping machines and combination bagging and weighing machines, and complete parts.....	...	75,592	-	41,683
Grain crushers and grain or hay grinders and parts.....	213	42,027	353	57,945
Hay presses and parts.....	72	24,888	23	14,036
Knives, edging.....dozen.	88	496	133	554
Knives, hay or straw.....	...	...	3	45
Manure spreaders and parts.....	607	73,806	527	63,658
Post-hole diggers and parts.....	1,333	2,484	1,357	2,589
Spades and shovels of iron and steel, other.....dozen.	10,364	27,506	8,014	17,300
Spraying and dusting machines and parts, including hand sprayers and parts.....	...	204,962	-	225,863
Stumping machines and complete parts thereof.....	10	1,700	13	2,013
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.....	11	54,464	-	7,566
Traction engines, internal combustion, for farm pur- poses, valued at not more than \$1,400 each.....	12,404	10,803,859	15,038	11,673,297
Complete parts of traction engines, internal combustion, for farm purposes, valued at not more than \$1,400 each, and automobile traction attachments and parts..	...	2,628,941	-	3,145,717
Windmills and complete parts therefor, not including shafting.....	...	59,095	-	67,307
Pruning hooks, shears, animal dehorning instruments and all other agricultural implements, not elsewhere provided for, and parts.....	...	118,123	-	203,077
TOTAL.....	...	17,233,658	-	20,319,626

Table 16 - EXPORTS OF FARM IMPLEMENTS AND MACHINERY FROM CANADA, 1937 and 1938.

	1937		1938	
	Quantity	Value	Quantity	Value
	Number	\$	Number	\$
(a) EXPORTS				
Cream separators and parts.....	...	68,710	-	56,964
Milking machines and parts.....	...	293,475	-	218,090
Harvesters and binders.....	5,335	986,796	4,084	880,646
Hay rakes.....	1,884	62,419	796	34,153
Mowing machines and reapers.....	2,870	196,937	2,821	230,852
Reaper-threshers.....	960	842,297	1,639	1,505,286
Cultivators.....	9,355	244,585	9,604	265,122
Drills.....	3,727	547,891	1,699	248,897
Harrows, disc, and parts.....	...	183,234	-	165,957
Harrows and parts, other.....	...	154,411	-	43,862
Ploughs, disc, and parts.....	...	509,852	-	471,497
Ploughs, and parts, other.....	...	2,219,251	-	1,235,856
Seeders.....	303	21,828	129	9,274
Threshing machine separators and parts.....	...	657,649	-	291,860
Garden and farm tools.....	...	204,149	-	148,602
Spades and shovels and parts.....	32,168	218,462	17,804	131,225
Other farm implements and machines.....	...	467,231	-	568,765
Other parts for farm implements and machines.....	...	1,959,631	-	1,283,216
TOTAL.....	...	9,838,808	-	7,790,124
(b) RE-EXPORTS				
Farm implements and parts.....	...	161,225	-	81,807

Table 17 - IMPORTS INTO CANADA. EXPORTS AND RE-EXPORTS OF FARM IMPLEMENTS AND MACHINERY, BY PRINCIPAL COUNTRIES, 1937 and 1938.

Countries of origin for imports or of destination for exports	IMPORTS		EXPORTS AND RE-EXPORTS	
	1937	1938	1937	1938
	\$	\$	\$	\$
Argentina.....	68	647	2,453,569	2,076,074
Australia.....	9,439	2,379	214,913	298,297
Belgium.....	10,661	5,673	22,660	14,799
British South Africa.....	3,246	37,538	1,311,911	874,786
Chile.....	...	-	62,552	52,661
Denmark.....	6,200	6,845	5,848	3,355
Finland.....	7,529	8,426	21,594	24,271
France.....	2,682	1,829	93,701	94,521
French Africa.....	...	547	90,397	66,585
Germany.....	61,580	65,847	23,821	10,727
Great Britain.....	490,588	682,728	1,210,116	1,131,542
Irish Free State.....	1,481	-	7,430	5,717
Italy.....	...	1,828	2,614	6,351
Mexico.....	...	-	33,521	1,942
Morocco.....	...	-	22,928	31,353
New Zealand.....	...	493	339,745	260,106
Norway.....	...	-	29,695	33,487
Portuguese Africa.....	...	-	77,949	46,319
Sweden.....	342,614	292,018	62,544	68,825
United States.....	16,275,597	19,196,007	3,456,381	2,444,429
Uruguay.....	...	-	183,612	86,081
Other countries.....	21,973	16,821	272,532	239,703
TOTAL.....	17,233,658	20,319,626	10,000,033	7,871,931

Table 18 - PRODUCTION OF PLOUGHS IN CANADA, IMPORTS AND EXPORTS, 1933-1938.

	1933	1934	1935	1936	1937	1938
PRODUCTION (x)..... No.	15,302	30,306	38,091	38,105	61,782	55,733
(Ploughs)..... \$	379,160	760,199	911,756	1,171,338	1,782,956	1,809,984
IMPORTS						
(Ploughs and parts)..... \$	10,481	41,022	58,872	225,527	572,690	607,222
EXPORTS						
(Ploughs and parts)..... \$	254,626	689,321	1,161,907	1,509,947	2,729,103	1,707,353

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

Table 19 - PRODUCTION OF MOWERS IN CANADA, IMPORTS AND EXPORTS, 1933-1938.

	1933	1934	1935	1936	1937	1938
PRODUCTION..... No.	3,796	8,924	11,859	11,033	11,320	11,128
(Hay mowers)..... \$	202,955	545,176	716,026	691,458	740,567	782,843
IMPORTS..... No.	244	471	792	803	826	977
(Mowing machines and parts)..... \$	15,691	26,299	48,582	76,315	85,922	118,216
EXPORTS..... No.	416	1,929	4,310	3,213	2,870	2,821
(Mowing machines)..... \$	23,664	114,615	263,126	198,062	196,937	230,852

Table 20 - PRODUCTION OF HARROWS IN CANADA, IMPORTS AND EXPORTS, 1933 - 1938.

	1933	1934	1935	1936	1937	1938
PRODUCTION (x)..... No.	6,378	14,799	30,286	33,536	43,767	39,309
(Harrows and sections)..... \$	70,489	178,535	348,643	422,781	668,571	685,479
IMPORTS..... \$	3,885	16,181	46,648	52,093	116,724	142,780
(Harrows and parts)						
EXPORTS..... \$	39,149	80,816	134,439	161,948	337,645	209,819
(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, 1933-1938.

	1933	1934	1935	1936	1937	1938
PRODUCTION..... No.	6,317	7,253	16,177	15,519	9,535	15,349
(Grain binders)..... \$	815,380	1,122,829	2,403,099	2,481,072	1,667,534	2,860,662
IMPORTS..... No.	400	448	953	655	1,186	2,638
(Harvesters, self-binding or not)..... \$	71,462	68,080	175,659	215,492	344,278	767,571
EXPORTS..... No.	822	1,681	3,580	3,881	5,335	4,084
(Harvesters and binders)..... \$	131,012	281,685	640,308	706,008	986,796	880,646

Table 22 - PRODUCTION OF THRESHERS AND REAPER-THRESHERS IN CANADA, IMPORTS AND EXPORTS, 1933-1938. (Including some threshers made in other industries).

	1933	1934	1935	1936	1937	1938
PRODUCTION..... No.	351	748	1,482	1,078	2,061	3,139
(Threshers and reaper-threshers)..... \$	250,921	619,080	1,104,676	884,944	1,806,295	2,608,029
IMPORTS..... No.	68	37	16	268	310	1,282
(Threshing machine separators; and harvesters in combination with threshing machine separators) \$	53,899	32,619	10,218	317,639	354,850	1,280,501
EXPORTS..... \$	50,068	434,445	1,125,581	806,683	1,499,946	1,797,146
(Reaper-threshers and threshing machine separators and parts)						

Table 23 - PRODUCTION OF SEED DRILLS IN CANADA, IMPORTS AND EXPORTS, 1933-1938.

		1933	1934	1935	1936	1937	1938
PRODUCTION.....	No.	256	1,055	4,481	7,358	6,664	9,568
	\$	33,622	118,976	519,125	964,582	806,115	1,450,079
IMPORTS.....	No.	...	...	...	...	...	...
(Seed drills, garden seeders and parts)	\$	12,251	26,483	33,426	108,145	164,512	233,219
EXPORTS.....	No.	190	813	1,638	2,120	3,727	1,699
(Drills).....	\$	32,607	111,506	217,854	275,599	547,891	248,897

Table 24 - PRODUCTION IN CANADA, IMPORTS AND EXPORTS OF CREAM SEPARATORS, 1933-1938.

		1933	1934	1935	1936	1937	1938
PRODUCTION.....	No.	6,652	9,963	12,107	10,902	10,893	11,387
(Cream separators)..	\$	413,530	675,165	791,346	710,003	676,976	717,408
IMPORTS.....	No.	9,560	12,305	11,299	17,077	22,920	18,049
(Cream separators and parts)	\$	429,420	418,488	304,946	414,709	563,557	493,855
EXPORTS.....	\$	33,774	42,428	66,154	97,863	68,710	56,964
(Cream separators and parts)							

Table 25 - PRODUCTION OF ONE-WAY DISCS, HARROW-PLOUGHS AND TILLER-COMBINES, 1933-1938.

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

Table 26 - PRODUCTION OF CULTIVATORS IN CANADA, 1932-1938.

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.....	9,079	663,696

Table 27 - PRODUCTION OF SCUFFLERS, WEEDERS AND CORN PLANTERS, 1932-1938.

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	232,266

Table 28 - PRODUCTION OF HAY LOADERS AND HAY RAKES, 1932-1938.

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

Table 29 - PRODUCTION OF MANURE SPREADERS, 1932-1938.

Years	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

Table 30 - SUMMARY OF FARM IMPLEMENT AND EQUIPMENT SALES IN CANADA, 1937 and 1938. (Number of Units and Value of Sales at Wholesale Prices, by Main Types)

Type	1937		1938			
	Number of units	Value	Number of units	Per cent change	Value	
		\$			Amount	
All types, total.....	-	30,775,198	-	-	36,336,056	+ 18.1
All types, itemized, total...	219,263	29,333,881	205,697	- 6.2	34,988,063	+ 19.3
Planting and seeding machinery.	12,215	2,209,165	11,090	- 9.2	2,138,267	- 3.2
Tillage machinery.....	79,845	4,744,093	71,259	- 10.8	4,449,286	- 6.2
Haying machinery.....	15,793	1,293,610	16,196	+ 2.6	1,433,771	+ 10.8
Harvesting machinery.....	12,483	3,883,524	17,545	+ 40.6	7,103,345	+ 82.9
Tractors and engines.....	14,498	13,329,394	16,820	+ 16.0	15,973,058	+ 19.8
All other types, itemized.....	84,429	3,874,095	72,787	- 13.8	3,890,336	+ 0.4
All other types, not itemized..	-	1,441,317	-	-	1,347,993	- 6.5

NOTE: For details of sales in Canada see special report issued by the Bureau on "Sales of Farm Implements and Equipment in Canada, 1938".

Table 31 - 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	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, 1938.

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 1938.

<u>Names of Firms</u>	<u>Location of Plants</u>
PRINCE EDWARD ISLAND -	
Hall Manufacturing & Cold Storage Co. Ltd.	Summerside
QUEBEC -	
Banville, Odilon, & Fils	St. Octave de Metis
Desjardins, Ltée	St. Andre de Kamouraska
Dion et Frère	St. Thérèse de Blainville
La Cie Jutras, Ltée	Victoriaville
Moody, Matthew, & Sons Co.	Terrebonne
ONTARIO -	
Canadian Potato Machinery Co. Ltd.	Jarvis Street, Galt
Cockshutt Plev Co. Ltd.	66 Mohawk Street, Brantford
Deere, John, Plev Co. Ltd.	Canal Bank, Welland
De Laval Company Ltd.	113 Park Street, Peterborough

LIST OF FIRMS INCLUDED IN THE FARM IMPLEMENTS AND MACHINERY INDUSTRY IN CANADA, 1938 - (Concluded)

<u>Names of Firms</u>	<u>Location of Plants</u>
<u>ONTARIO - (Con.)</u>	
Ebersol, John R.	Milverton
Ernst Bros. Co. Ltd.	Mount Forest
Erie Iron Works Ltd.	116 Talbot Street, St. Thomas
Ferguson Thresher Co.	Maxville
Goodison, John, Thresher Co. Ltd.	Clifford Street, Sarnia
Fleury-Bissell Ltd.	Aurora and Elora
Frost and Wood Co. Ltd.	25 Chambers Street, Smiths Falls
Garden Equipment Co.	340 Pitt Street East, Windsor
Hergott Company	Mildmay
International Harvester Co. of Canada, Ltd.	Sherman Avenue North, Hamilton
Massey-Harris Company Ltd.	Market Street and Canal Road, Brantford
Massey-Harris Company Ltd.	915 King Street, Toronto; Woodstock & Brantford
Otaco, Limited	West Street, Orillia
Percical Plow & Metal Works Ltd.	Merrickville
Renfrew Machinery Co. Ltd.	Lochiel Street, Renfrew
Spramotor Ltd.	1105 York Street, London
Sunshine Waterloo Co. Ltd.	Waterloo
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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