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ANNUAL INDUSTRY REPORT — IRON AND STEEL AND THEIR PRODUCTS GROUP

THE FARM IMPLEMENTS AND MACHINERY INDUSTRY, 1941

Production by establishments in the farm implements and machinery industry was 52.6 per cent higher in value in 1941 than in 1940 and 114.6 per cent higher than in 1939. Actual values (at factory prices) for these years were as follows: $34,422,202 in 1941; $22,553,459 in 1940 and $16,035,223 in 1939.

Thirty-four factories were included in the farm implements industry in 1941, there being 24 works in Ontario, 4 in Quebec, 4 in Manitoba and 1 each in Alberta and Prince Edward Island. The works in Ontario accounted for 96.5 per cent of the total output.

The industry employed an average of 8,804 workers during the year; the 1,219 salaried employees were paid $2,084,052 and the 7,585 wage-earners $10,093,708. The total of $12,177,760 for salaries and wages was 39.6 per cent more than the amount distributed to the 6,857 employees in 1940.

Capital employed in manufacturing operations at the end of the year amounted to $59,181,436, including $14,973,788 as the value of land, buildings and factory equipment, $21,505,907 as the inventory value of materials and products on hand, and $22,701,741 as operating capital.

Table 1 - PRINCIPAL STATISTICS OF THE FARM IMPLEMENTS AND MACHINERY INDUSTRY, 1930 - 1941

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
		$		$	$	$	$
1930	57	98,684,828	7,405	9,564,049	681,392	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	268,292	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	15,957,430
1937	37	60,927,315	6,446	7,350,043	567,240	9,319,032	18,931,394
1938	38	63,761,644	6,458	7,509,706	533,363	9,611,780	21,299,185
1939	36	58,067,218	5,306	6,024,720	449,158	6,672,529	16,035,223
1940	34	55,688,391	6,857	8,719,979	583,276	10,325,849	22,553,459
1941	34	59,181,436	8,804	12,177,760	765,294	14,408,498	34,422,202
Per cent change 1941 from 1940.	..	+6.3	+28.4	+39.6	+31.2	+39.5	+52.6

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

Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1940 and 1941

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
		$		$	$	$	$
1940							
Quebec	5	541,885	176	142,653	9,771	167,218	388,294
Ontario	24	54,518,387	6,581	8,455,508	560,747	9,984,373	21,715,430
Prince Edward Island	1)	99,628	18	15,816	892	6,154	32,116
Alberta	1)						
Manitoba	3	528,491	82	106,002	11,866	166,104	417,619
CANADA	34	55,688,391	6,857	8,719,979	583,276	10,323,849	22,553,459
1941							
Quebec	4	576,576	194	185,047	14,537	202,310	510,080
Ontario	24	57,837,705	8,473	11,827,821	732,579	13,795,618	33,227,465
Prince Edward Island	1)	127,118	15	14,659	1,267	9,006	32,016
Alberta	1)						
Manitoba	4	640,037	122	150,233	16,911	401,564	652,641
CANADA	34	59,181,436	8,804	12,177,760	765,294	14,408,498	34,422,202

Table 3 - CAPITAL EMPLOYED, BY CLASSES AND BY PROVINCES, 1940 and 1941 (On the last day of the year)

Provinces	Present value of lands, buildings, fixtures, machinery and tools	Inventory value of materials on hand, stocks in process and finished products on hand	Operating capital (cash, bills and accounts receivable, etc.)	TOTAL CAPITAL EMPLOYED
	$	$	$	$
1940				
Quebec	97,468	88,413	356,004	541,885
Ontario	13,979,658	18,422,063	22,116,666	54,518,387
Manitoba	163,778	204,524	160,189	528,491
Other provinces	39,919	33,709	26,000	99,628
CANADA	14,280,823	18,748,709	22,658,859	55,688,391
1941				
Quebec	97,604	105,739	373,233	576,576
Ontario	14,591,835	21,112,617	22,133,253	57,837,705
Manitoba	213,419	252,368	174,250	640,037
Other provinces	70,930	35,183	21,005	127,118
CANADA	14,973,788	21,505,907	22,701,741	59,181,436

Table 4 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1940 and 1941

Provinces	Average Number of Employees					Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages		TOTAL			
	Male	Female	Male	Female				
						$	$	$
1940								
Quebec	30	2	144	...	176	54,017	88,636	142,653
Ontario	743	255	5,517	66	6,581	1,659,611	6,795,897	8,455,508
Manitoba	20	5	56	1	82	45,924	60,078	106,002
Other provinces..	3	1	14	...	18	9,311	6,505	15,816
CANADA	796	263	5,731	67	6,857	1,768,863	6,951,116	8,719,979
1941								
Quebec	29	2	163	...	194	57,343	127,704	185,047
Ontario	824	329	7,211	109	8,473	1,969,043	9,858,778	11,827,821
Manitoba	23	8	91	...	122	50,626	99,607	150,233
Other provinces..	3	1	11	...	15	7,040	7,619	14,659
CANADA	879	340	7,476	109	8,804	2,084,052	10,093,708	12,177,760

Table 5 - WAGE-EARNERS, BY MONTHS, 1940 and 1941 (On the last work day of each month)

Months	1940 Male	1940 Female	1940 TOTAL	1941 Male	1941 Female	1941 TOTAL
January	4,750	71	4,821	6,724	75	6,799
February	4,975	71	5,046	7,012	76	7,088
March	5,364	74	5,438	7,501	78	7,579
April	5,664	64	5,728	7,470	80	7,550
May	5,978	64	6,042	7,618	78	7,696
June	5,936	63	5,999	7,662	87	7,749
July	6,004	61	6,065	7,641	103	7,744
August	5,874	64	5,938	7,513	111	7,624
September	6,011	69	6,080	7,633	135	7,768
October	5,986	69	6,055	7,838	142	7,980
November	6,022	65	6,087	7,623	147	7,770
December	6,247	75	6,322	7,719	199	7,918
AVERAGE	5,731	67	5,798	7,476	109	7,585

Table 6 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1941 (In one week of highest employment; overtime included)

Hours worked per week	Number of Wage-Earners 1940	Number of Wage-Earners 1941	Hours worked per week	Number of Wage-Earners 1940	Number of Wage-Earners 1941
30 hours or less	137	49	51 - 54 hours	570	530
31 - 43 hours	607	99	55 hours	356	834
44 hours	257	131	56 - 64 hours	651	822
45 - 47 hours	1,503	1,672	65 hours and over	229	300
48 hours	1,976	3,462	TOTAL	6,639	8,512
49 - 50 hours	353	613	Total wages paid in selected week $	163,773	202,144

Table 7 - FUEL AND ELECTRICITY USED, 1940 and 1941

Kinds	Unit of measure	1940 Quantity	1940 Cost at works $	1941 Quantity	1941 Cost at works $
Bituminous coal - Canadian	ton	2,060	12,647	409	3,737
Imported	ton	29,936	166,176	40,976	247,031
Anthracite coal	ton	992	7,887	864	6,775
Coke	ton	161	1,854	124	1,615
Gasoline	Imp.gal.	64,143	15,394	72,724	21,941
Kerosene	Imp.gal.	1,237	220	2,009	357
Fuel oil	Imp.gal.	1,807,919	133,491	2,029,951	166,648
Wood	cords	947	3,779	865	3,636
Gas - Manufactured	M cu.ft.	150,087	43,666	196,688	60,556
Natural	M cu.ft.	12,458	6,970	15,283	8,677
Other fuel	...	...	710	...	273
Electricity	K.W.H.	18,504,075	190,482	30,178,708	244,048
TOTAL	...	...	583,276	...	765,294

Table 8 - POWER EQUIPMENT, 1940 and 1941

	Ordinarily in Use: Number of units	Ordinarily in Use: Total horse power rating	In Reserve or Idle: Number of units	In Reserve or Idle: Total horse power rating
1940				
Steam engines and steam turbines	15	2,540	3	525
Gasoline, gas and oil engines (except Diesel)	6	75	1	10
Hydraulic turbines or water wheels	3	116	...	...
Total Primary Equipment	24	2,731	4	535
Electric motors run by purchased power	1,593	18,053	80	1,707
TOTAL	1,617	20,784	84	2,242
Stationary boilers	42	5,265	2	200

Table 8 - POWER EQUIPMENT, 1940 and 1941 (Concluded)

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total horse power rating	Number of units	Total horse power rating
1 9 4 1				
Steam engines and steam turbines	13	2,465	4	565
Gasoline, gas and oil engines (except Diesel)	10	76	...	...
Hydraulic turbines or water wheels	2	120	1	30
Total Primary Equipment	25	2,661	5	595
Electric motors run by purchased power	1,953	19,828	101	1,987
TOTAL	1,978	22,489	106	2,582
Stationary boilers	40	5,260	2	215

Table 9 - MATERIALS USED IN MANUFACTURING, 1940 and 1941

Materials	Unit of measure	1 9 4 0 Quantity	1 9 4 0 Total cost at works	1 9 4 1 Quantity	1 9 4 1 Total cost at works
			$		$
Iron -					
Pig iron, all grades	ton	17,836	395,664	26,772	584,920
Iron castings of all kinds purchased	ton	4,717	600,301	8,539	978,945
Steel, hot or cold rolled (except special alloy steel) -					
Steel castings	ton	92	17,679	343	61,810
Bars	ton	48,875	2,725,610	50,294	2,802,265
Forgings	ton	502	24,621	2,919	279,444
Plates	ton	999	62,724	1,547	146,222
Shafting	ton	513	40,980	663	59,431
Sheets, plain	ton	4,981	328,461	8,825	647,342
Sheets, galvanized	ton	2,236	177,310	2,153	175,631
Strip	ton	1,537	99,060	1,368	91,227
Stampings	ton	1,578	194,034	1,652	279,245
Structural shapes (angles, channels, etc.) ...	ton	2,149	114,043	651	39,565
Wire	ton	307	23,628	369	26,027
Scrap iron and steel of all kinds	ton	17,827	286,103	27,465	456,141
Pipe, tubing and fittings of iron and steel ...	...	...	112,487	...	181,837
Other iron and steel (except finished parts) ..	...	...	9,317	...	23,531
Alloy steel -					
Carbon and alloy tool steels, including high speed	ton	93	53,968	...	124,808
Stainless steels	ton	20	25,564	...	43,283
Other alloy steels	ton	...	434	...	9,098
Ferro-alloys	ton	...	9,746	...	14,030
Non-ferrous metals (including scrap)					
Aluminium	pound	24,529	4,717	42,867	9,092
Brass and bronze	pound	121,953	20,765	520,678	75,488
Copper	pound	325,334	45,382	1,188,845	206,339
Lead	pound	53,178	2,910	92,213	4,767
Nickel	pound	15,739	4,714	21,102	6,006
Tin	pound	22,285	12,298	56,009	33,540
Zinc	pound	27,586	1,618	70,574	3,816
Babbitt metals and solder	pound	37,808	9,675	56,000	15,174
Other metals	...	...	903	...	14,549
Other materials and supplies -					
Parts for machines or vehicles	...	...	2,105,424	...	2,732,414
Bolts, nuts, rivets and screws	...	...	207,207	...	298,105
Electrical goods, including motors	...	...	72,067	...	113,542
Paints, oils and varnishes	...	...	234,478	...	307,231
Wheels	...	...	198,264	...	241,330
Cotton, duck and other textiles	...	...	224,638	...	258,440
Foundry coke (used in cupola; not for heat or power)	ton	7,494	93,362	8,287	119,817
Moulding sands	ton	4,483	16,911	6,748	47,958

Table 9 - MATERIALS USED IN MANUFACTURING, 1940 and 1941 (Concluded)

Materials	Unit of measure	1940 Quantity	1940 Total cost at works	1941 Quantity	1941 Total cost at works
			$		$
Core sands	ton	3,145	10,391	5,496	17,229
Plumbago and graphite	pound	10,715	575	...	2,155
Other foundry facings	pound	...	3,703	...	4,303
Patterns and models	...	...	5,323	...	7,200
Lumber	M ft.b.m.	12,048	569,041	15,728	772,164
Firebrick	number	236,587	18,037	310,921	27,194
Fireclay	ton	302	2,872	1,414	11,497
Cupola blocks	...	...	1,761	...	1,064
Core oil	Imp.gal.	20,900	13,284	24,470	14,068
Core compounds	...	...	7,567	...	10,106
Acetylene	cu.ft.	376,068	8,161	720,034	12,865
Oxygen	cu.ft.	263,610	3,111	756,429	8,709
Shipping containers	...	...	22,737	...	53,224
All other materials and supplies	...	...	1,099,769	...	1,958,007
TOTAL	...	...	10,323,849	...	14,408,498

Table 10 - PRODUCTS MADE, 1940 and 1941

	1940 Number	1940 Selling value at works	1941 Number	1941 Selling value at works
		$		$
Tillage implements -				
Cultivators, corn	3,248	57,030	402	19,914
Cultivators, other	6,732	528,746	5,594	475,381
Harrows - Disc (except one-way discs)	9,815	646,528	9,564	596,715
Spike tooth sections	21,450	284,199	20,549	77,280
Spring tooth	6,690	152,647	6,179	146,992
Harrow parts and attachments	...	16,363	...	20,038
Hoes, horse-drawn	803	10,023	1,487	16,937
Land rollers, packers and soil pulverizers	1,403	38,088	2,269	58,508
Ploughs - Mould board, horse drawn -				
Walking, single furrow	56,916	545,674	37,905	353,540
Walking, two furrow and larger	1,144	45,757	2,434	90,397
Sulky, single furrow	452	22,548	446	17,482
Gang, two furrow and larger	2,029	94,323	163	13,720
Tractor drawn, all types	17,441	1,585,750	23,173	2,275,656
Disc - horse drawn, all types	797	53,469	875	76,243
Disc - tractor drawn, all types	2,346	369,434	708	84,106
All other (breakers, etc.)	369	29,292	234	21,477
Plough parts and attachments	...	9,747	...	27,672
One-way discs, harrow ploughs, and tiller combines.	4,770	934,238	6,236	1,334,047
Scufflers	11,791	109,097	11,726	82,037
Weeders	1,567	89,432	1,825	98,759
Planting and seeding machines -				
Fertilizer sowers	595	48,463	486	35,121
Seed drills, press and wheel	7,536	957,443	7,944	1,399,776
Planters, corn	2,844	85,939	1,750	57,569
Harvesting machines -				
Binders, corn and cotton	220	36,036	300	53,615
Binders, grain - Horse-drawn	12,431	2,232,455	7,546	1,468,975
Tractor-drawn	866	314,052	1,347	470,812
Threshers and reaper-thresher combines	3,055	2,641,121	3,572	3,428,053
Thresher parts	...	74,595	...	52,818
Other, including pick-ups, harvester stackers, swathers and push harvesters	...	130,748	...	101,858
Haying machines -				
Hay loaders	1,290	105,618	1,812	151,488
Hay rakes - Dump	4,881	153,334	4,799	181,194
Side, including combination side rakes and tedders	571	40,819	1,188	84,155

Table 10 - PRODUCTS MADE, 1940 and 1941 (Concluded)

	1940 Number	1940 Selling value at works	1941 Number	1941 Selling value at works
		$		$
Haying machines (Con.) -				
Mowers, horse and tractor-drawn	8,687	644,714	11,218	907,600
Other, including hay carriers, hay forks, hay tedders and hay presses	...	17,228	...	19,580
Other farm implements -				
Barn and stable equipment	...	66,550	...	57,000
Corn shellers	406	7,293	359	1,754
Cream separators	5,612	312,720	19,588	968,278
Ensilage and straw and stalk cutters	237	35,818	263	45,053
Eveners	6,132	9,635	6,113	10,761
Fanning mills and grain cleaners	...	200,197	...	67,289
Grain grinders	3,514	171,928	6,433	289,034
Hammer mills	670	74,774	443	57,968
Manure spreaders	3,941	452,043	4,019	467,048
Potato diggers	206	24,178	513	39,950
Pulpers and slicers	662	12,343	530	10,635
Sleighs, complete	630	44,541	...	106,413
Sprayers, hand	1,608	47,030	903	31,561
Sprayers, power	130	45,010	100	33,053
Wagons, wagon boxes and gears	...	110,858	...	162,543
Wheelbarrows	5,027	24,356	4,704	21,905
Farm implements and machinery, not elsewhere specified.	...	684,747	...	1,629,106
Parts and accessories for farm implements and machinery	...	2,401,150	...	2,169,253
Amount received for custom work and repairs	...	2,841,930	...	3,414,194
All other products (x)	...	1,881,338	...	10,550,271
TOTAL	...	22,553,459	...	34,[illegible]22,202

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

Table 11 - PRODUCTION OF PLOUGHS(x) IN CANADA, 1935-1941 (including some ploughs made in other industries)

Year	Number	Selling value at works
		$
1935	38,091	911,756
1936	38,105	1,171,338
1937	61,782	1,782,956
1938	57,150	1,848,897
1939	37,823	1,532,509
1940	81,494	2,746,247
1941	67,497	2,970,621

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

Table 12 - PRODUCTION OF MOWERS IN CANADA, 1935-1941

Year	Number	Selling value of works
		$
1935	11,859	716,028
1936	11,033	691,458
1937	11,320	740,467
1938	11,128	782,843
1939	8,242	580,793
1940	8,687	644,714
1941	11,218	907,600

Table 13 - PRODUCTION OF HARROWS IN CANADA, 1935-1941 (including some harrows made in other industries)

Year	Number	Selling value at works
		$
1935	30,286	346,643
1936	35,536	472,781
1937	43,767	668,571
1938	39,876	687,520
1939	28,755	541,738
1940	37,955	1,093,757
1941	36,839	840,987

Table 14 - PRODUCTION OF GRAIN BINDERS IN CANADA, 1935 - 1941

Year	Number	Selling value at works
		$
1935	16,177	2,405,099
1936	15,519	2,481,072
1937	9,535	1,667,584
1938	15,349	2,860,662
1939	9,916	1,995,093
1940	13,297	2,546,507
1941	8,893	1,959,537

Table 15 - PRODUCTION OF THRESHERS AND REAPER-THRESHERS IN CANADA, 1935-1941 (including some threshers made in other industries)

Year	Number	Selling value at works
		$
1935	1,482	1,104,676
1936	1,078	884,944
1937	2,061	1,806,295
1938	3,165	2,529,436
1939	3,049	2,647,764
1940	3,055	2,715,716
1941	3,629	3,504,483

Table 16 - PRODUCTION OF SEED DRILLS IN CANADA, 1935-1941

Year	Number	Selling value at works
		$
1935	4,481	519,125
1936	7,358	964,582
1937	6,664	806,115
1938	9,568	1,450,079
1939	5,550	635,795
1940	7,536	957,443
1941	7,944	1,599,776

Table 17 - PRODUCTION OF CREAM SEPARATORS IN CANADA, 1935-1941 (including production in other industries)

Year	Number	Selling value at works
		$
1935	12,107	791,346
1936	10,902	710,003
1937	[illegible]	878,976
1938	[illegible]	717,408
1939	5,5[illegible]	393,211
1940	[illegible]	332,679
1941	10,876	966,268

Table 18 - PRODUCTION OF ONE-WAY DISCS, HARROW-PLOUGHS AND TILLER-COMBINES, 1933-1941

Year	Number	Selling value at works
		$
1933	731	105,400
1934	1,228	197,067
1935	2,762	440,464
1936	4,455	778,713
1937	7,639	999,086
1938	5,971	730,006
1939	3,525	642,256
1940	4,770	934,238
1941	6,236	1,334,047

Table 19 - PRODUCTION OF CULTIVATORS IN CANADA, 1932-1941 (From all industries)

Year	Number	Selling value at works
		$
1932	1,223	86,301
1933	939	44,128
1934	3,358	187,339
1935	6,345	388,404
1936	5,683	376,531
1937	7,842	380,253
1938	9,238	667,996
1939	5,884	410,226
1940	9,980	585,776
1941	6,146	499,295

Table 20 - PRODUCTION OF SCUFFLERS, WEEDERS AND CORN PLANTERS, 1932-1941

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	28,080	1,007	27,836
1935	11,073	70,098	189	11,728	2,501	88,559
1936	11,216	71,149	1,150	63,308	2,586	98,922
1937	17,845	115,084	1,394	110,309	3,853	119,265
1938	15,186	115,795	1,987	129,284	4,220	232,266
1939	9,856	68,649	1,535	107,676	2,298	117,119
1940	11,791	109,097	1,567	89,422	2,844	85,939
1941	11,726	82,037	1,825	98,759	1,750	57,569

Table 21 - PRODUCTION OF HAY LOADERS AND HAY RAKES, 1932-1941

Year	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	36,940	5,502	152,475
1936	1,259	91,741	6,194	204,688
1937	1,254	93,662	6,549	213,175
1938	1,840	145,879	7,078	242,392
1939	1,122	95,287	4,924	185,430
1940	1,290	105,618	5,502	196,413
1941	1,812	151,488	5,987	245,349

Table 22 - PRODUCTION OF MANURE SPREADERS, 1932-1941

Year	Number	Selling value at works
		$
1932	504	55,860
1933	498	43,564
1934	1,488	159,631
1935	1,738	185,368
1936	3,089	238,065
1937	2,949	337,589
1938	2,982	358,137
1939	3,077	324,659
1940	3,941	452,043
1941	4,019	467,048