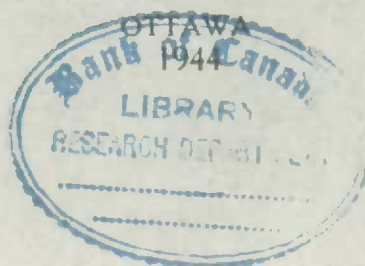
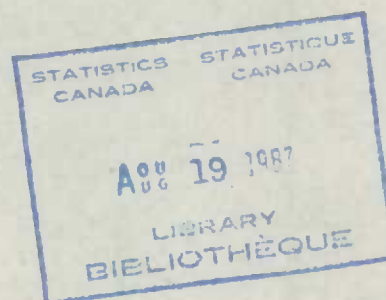


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CANADA
DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY
MINING, METALLURGICAL & CHEMICAL BRANCH

THE WIRE AND WIRE GOODS INDUSTRY
IN
CANADA
1942



Price 25 cents

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ANNUAL INDUSTRY REPORTIRON AND STEEL AND THEIR PRODUCTS GROUPTHE WIRE AND WIRE GOODS INDUSTRY, 1942.

This report presents statistics for the Wire and Wire Goods Industry which is a part of the iron and steel group and covers all establishments in Canada engaged chiefly in drawing iron and steel wire or in fabricating products from wire of iron or steel.

In 1942 the 78 factories in this industry were distributed by provinces as follows: Ontario, 49; Quebec, 18; British Columbia, 7; New Brunswick, 2; Nova Scotia, 1, and Manitoba 1.

Factory sales in 1942 were valued at \$42,702,658, including plain and galvanized wire, barbed wire, wire fencing, wire nails, tacks, staples, screws, wire cloth, wire rope, bale ties, upholstering springs and other such commodities. In 1941 factory sales were reported at \$42,395,022 and in 1940 at \$32,446,893.

The 13 wire drawing plants which operated in 1942 employed 3,687 workers, while the 65 establishments engaged only in the fabrication of wire goods had 3,190 workers. Sales from the wire drawing plants amounted to \$25,349,988 and from the fabricating plants to \$17,352,670.

The average number of employees in all plants in 1942 was 6,877 of whom 4,815 worked in Ontario and 1,339 in Quebec. Payments to the 834 salaried employees totalled \$1,096,821 while the 6,043 wage-earners were paid \$8,728,900, a total for salaries and wages of \$10,625,721. In 1941 payments amounting to \$9,107,560 were made to 6,396 employees.

Capital employed at the end of the year was given at \$36,279,072, including the value of land, buildings, and machinery at \$19,355,620; inventories at \$7,495,802 and cash, bills and accounts receivable, etc., at \$9,427,650. Works in Ontario accounted for 60 per cent of this investment and factories in Quebec for 25 per cent. In 1941 the total capital employed was given at \$36,486,567.

Table 1 - PRINCIPAL STATISTICS OF THE WIRE AND WIRE GOODS INDUSTRY, 1931 - 1942

Years	No. of Plants	Capital Employed	Average Number of em- ployees	Salaries and Wages	Cost of Fuel and Electricity at works	Cost of Purchased Materials at works	Gross Selling Value of Shipments at works
		\$		\$	\$	\$	\$
1931	67	28,665,440	3,417	3,761,808	473,909	5,291,121	14,191,850
1932	71	26,593,675	2,923	2,913,312	437,541	3,591,238	10,407,213
1933	72	28,667,338	2,724	2,678,413	434,115	3,332,040	10,511,900
1934	69	28,818,082	3,163	3,272,740	520,633	4,526,426	14,684,561
1935	71	24,346,325	3,477	3,752,990	522,386	5,075,020	16,235,678
1936	73	25,729,266	3,806	4,225,245	548,122	5,539,986	18,369,397
1937	75	27,633,569	4,536	5,531,891	602,503	7,976,821	23,558,635
1938	77	29,266,273	4,331	5,096,940	556,849	6,005,857	20,605,207
1939	76	31,088,655	4,523	5,684,938	621,476	7,262,999	25,063,379
1940	73	32,939,491	5,126	7,126,134	717,339	10,298,230	32,446,893
1941	82	36,486,567	6,396	9,107,560	801,366	13,235,277	42,395,022
1942	78	36,279,072	6,877	10,625,721	824,176	13,704,549	42,702,658
Per cent change, 1942 from							
1941 ....	..	- 0.6	+ 7.5	+ 16.5	+ 2.8	+ 3.5	+ 0.7

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

Table 2 - PRINCIPAL STATISTICS, BY SUB-GROUPS, 1941 AND 1942.

Years	No. of plants	Capital employed	Average number of em- ployees	Salaries and wages	Cost of fuel and electricity at works	Cost of purchased materials at works	Gross selling value of shipments at works
<u>1941</u>							
Wire-drawing plants	13	20,374,489	2,995	4,498,838	576,464	5,575,182	24,335,682
Fabricating plants only	69	16,112,078	3,401	4,608,722	224,902	7,660,095	18,059,340
TOTAL ...	82	36,486,567	6,396	9,107,560	801,366	13,235,277	42,395,022
<u>1942</u>							
Wire-drawing plants	13	24,825,959	3,687	5,933,131	626,184	6,131,057	25,349,988
Fabricating plants only	65	11,453,113	3,190	4,656,590	198,992	7,573,492	17,352,670
TOTAL ...	78	36,279,072	6,877	10,625,721	824,176	13,704,549	42,702,658

Table 3 - PRINCIPAL STATISTICS, BY PROVINCES, 1941 and 1942

Year	No. of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of purchased materials at works	Gross selling value of shipments at works
<u>1941</u>							
Quebec	20	9,555,594	1,386	1,887,656	259,856	2,435,020	10,495,484
Ontario	50	22,069,686	4,332	6,269,367	470,427	7,944,468	24,927,158
British Columbia	7	1,996,180	253	352,416	21,658	2,029,150	2,734,249
Other provinces(x)	5	2,865,107	425	596,121	49,425	826,629	4,238,131
CANADA	82	36,486,567	6,396	9,107,560	501,366	13,235,277	42,395,022
<u>1942</u>							
Quebec	18	9,146,290	1,339	1,949,492	249,202	2,299,981	9,888,501
Ontario	49	22,066,431	4,815	7,510,341	497,705	8,712,547	25,947,298
British Columbia	7	2,169,638	315	456,942	25,768	1,934,733	2,972,190
Other provinces(x)	4	2,896,713	408	708,946	51,501	750,288	3,894,669
CANADA	78	36,279,072	6,877	10,625,721	824,176	13,704,549	42,702,658

(x) Includes data for 2 firms in New Brunswick, 1 in Nova Scotia and 1 in Manitoba.

Table 4 - CAPITAL EMPLOYED, BY PROVINCES, 1941 and 1942 (On the last day of the year)

Province	Present value of lands, buildings, machinery and tools	Value of Inventories Raw materials fuel and other supplies on hand and stocks in process	Finished products on hand	Cash, bills and accounts receivable, prepaid expenses, etc.	TOTAL CAPITAL EMPLOYED
<u>1941</u>					
Quebec	5,696,308	1,196,676	634,812	2,027,798	9,555,594
Ontario	12,774,290	2,492,598	1,278,729	5,524,069	22,069,686
British Columbia	586,346	398,857	232,213	778,764	1,996,180
Other provinces	938,681	1,084,687	275,230	566,509	2,865,107
CANADA ..	19,995,625	5,172,818	2,420,984	8,897,140	36,486,567
<u>1942</u>					
Quebec	5,398,632	1,175,666	573,421	2,000,571	9,146,290
Ontario	12,416,489	2,614,960	1,136,810	5,898,172	22,066,431
British Columbia	607,304	586,663	156,046	819,625	2,169,638
Other provinces	933,195	1,088,944	165,292	709,282	2,896,713
CANADA ..	19,355,620	5,464,233	2,031,569	9,427,650	36,279,072

Table 5 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1941 AND 1942

Province	AVERAGE NUMBER OF EMPLOYEES					Salaries	Wages	TOTAL SALARIES and WAGES
	On salaries		On wages		TOTAL			
	Male	Female	Male	Female				
1 9 4 1								
Quebec	152	64	1,025	145	1,386	451,623	1,436,033	1,887,656
Ontario	331	205	3,283	513	4,332	1,172,167	5,097,200	6,269,367
British Columbia .	28	9	216	...	253	79,717	272,699	352,416
Other provinces ..	18	2	404	1	425	37,465	560,656	598,121
CANADA	529	280	4,928	659	6,396	1,740,972	7,366,588	9,107,560
1 9 4 2								
Quebec	143	71	951	174	1,339	456,945	1,492,547	1,949,492
Ontario	326	234	3,371	884	4,815	1,280,287	6,230,054	7,510,341
British Columbia .	34	11	229	41	315	125,608	331,334	456,942
Other provinces ..	12	3	387	6	408	33,981	674,965	708,946
CANADA	515	319	4,938	1,105	6,877	1,896,821	8,728,900	10,625,721

Table 6 - WAGE-EARNERS, BY MONTHS, 1941 AND 1942 (On the last work day of each month)

	1 9 4 1			1 9 4 2		
	Male	Female	TOTAL	Male	Female	TOTAL
January	4,587	480	5,067	5,112	1,020	6,132
February	4,689	532	5,221	5,117	1,000	6,117
March	4,869	566	5,435	5,059	1,028	6,087
April	4,894	610	5,504	4,992	1,058	6,050
May	4,915	617	5,532	4,932	1,024	5,956
June	4,911	627	5,538	4,976	1,095	6,071
July	4,882	644	5,526	4,914	1,068	5,982
August	4,927	682	5,609	4,856	1,120	5,976
September	5,031	738	5,769	4,859	1,188	6,047
October	5,199	765	5,964	4,817	1,217	6,034
November	5,183	809	5,992	4,812	1,203	6,015
December	5,026	820	5,846	4,799	1,233	6,032
AVERAGE	4,928	659	5,587	4,938	1,105	6,043

Table 7 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1941 AND 1942 (In one week of highest employment; overtime included)

Highest Employment, Overtime Included									
Hours worked per week -	Number of wage-earners				Hours worked per week -	Number of wage-earners			
	1941		1942			1941		1942	
	Male	Female	Male	Female		Male	Female	Male	Female
30 hours or less	154	45	191	67	51 - 54 hours	602	45	432	84
31 - 43 hours ..	305	100	436	213	55 hours	800	196	1,047	84
44 hours	165	23	157	91	56 - 64 hours	1,594	17	1,051	132
45 - 47 hours ..	398	111	422	190	65 hours or over	341	...	372	1
48 hours	657	217	517	323	Total	5,583	839	5,184	1,513
49 - 50 hours ..	567	85	559	328	Total wages paid in selected week	\$160,085	14,653	161,426	23,913

Table 8 - FUEL AND ELECTRICITY USED, 1941 AND 1942

Kind	Unit of Measure	1 9 4 1	Cost at works \$	1 9 4 2	Cost at works \$
		Quantity		Quantity	
Bituminous coal - Canadian	Ton	11,490	70,940	9,819	69,997
Imported	Ton	23,987	160,690	25,347	181,623
Anthracite coal	Ton	238	3,681	171	2,183
Coke	Ton	446	4,457	394	3,986
Gasoline	Imp. Gal.	36,669	10,164	23,712	7,164
Kerosene	Imp. Gal.	3,944	926	1,414	263
Fuel oil	Imp. Gal.	276,842	23,009	247,584	21,101
Wood	Cord	394	1,608	483	1,955
Gas - Manufactured (x) ...	M cu. ft.	607,647	115,706	621,698	130,049
Natural	M cu. ft.	51,479	25,202	56,527	28,811
Other fuel .....	...	...	16	...	...
Electricity purchased	K. W. H.	40,859,011	384,967	39,934,247	377,044
TOTAL .....	...	...	801,366	...	824,176

(x) Includes some gas delivered to the wire mills from the companies' own coke ovens.

Table 9 - POWER EQUIPMENT, 1941 AND 1942

	Ordinarily in use		In reserve or idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
<u>1 9 4 1</u>				
Gasoline, gas and oil engines	7	120	2	18
Hydraulic turbines or Water Wheels	3	34	...	...
Total primary equipment	10	154	2	18
Electric motors run by purchased power	1,959	21,631	88	733
TOTAL	1,969	21,785	90	751
Electric motors run by primary power shown above	139	3,394	...	...
Stationary boilers	34	3,358	3	530
<u>1 9 4 2</u>				
Gasoline, gas and oil engines	7	121	1	6
Hydraulic turbines or Water Wheels	2	5	...	...
Total primary equipment	9	126	1	6
Electric motors run by purchased power	1,948	20,313	71	943
TOTAL	1,957	20,439	72	949
Electric motors run by primary power shown above	139	3,244	...	...
Stationary boilers	33	3,198	2	580
Motor generator sets	24	3,415	1	46

Table 10 - MATERIALS USED IN MANUFACTURING, 1942

		Materials	Purchased Materials	
Material	Unit of measure	made in producers' own works	Quantity	Cost at works
Iron and steel -				
Bars	Net ton	724	690	56,114
Wire rods	Net ton	155,001	76,057	3,480,944
Wire - plain	Net ton	72,197	31,357	3,711,928
galvanized	Net ton	16,688	15,020	1,786,633
Nail plate	Lb.	1,618,212	800,000	45,000
Tack plate	Lb.	1,719,385	2,620,549	94,718
Other iron and steel .....	...	3,578,192	...	688,827
Other metals -				
Copper bars, rods, sheets, etc.	Lb.	...	580,117	89,082
Brass and bronze rods, sheets, etc..	Lb.	...	2,105,864	379,647
Lead	Lb.	...	547,845	28,140
Tin	Lb.	...	12,871	7,622
Zinc (spelter)	Lb.	...	5,505,284	293,087
All other metals .....	...	...	...	117,180
Other materials -				
Acid, muriatic, 20° Be'	Lb.	...	2,048,434	31,222
Acid, sulphuric 66° Be'	Lb.	...	14,380,317	130,692
Lumber	M ft. b.m.	...	286	17,319
Shipping containers .....	...	...	...	780,009
All other materials .....	...	...	...	1,966,385
TOTAL .....		...	...	13,704,549

Table 11 - PRODUCTS MANUFACTURED, 1942

NOTE: Data for the items specified below represent, except where indicated by (x) the totals for Canada as well as for the wire and wire goods industry, according to returns to the Industrial Census for 1942. The mark (x) indicates that there was also a production in other industries (see footnote)

Product	Unit of Measure	Quantity made	Quantity sold	Income from sales
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SECTION "A" - WIRES

(Total production, whether for sale or for further manufacture)

Iron and Steel Wires -

Wire drawn from rods	Net ton	202,116	53,586	4,598,172
Galvanized wire	Net ton	46,383	23,422	2,451,878
Barbed wire	Net ton	10,085	10,975	891,960
Cold rolled flat wire of all sizes, qualities and finishes, including nut steel	Net ton	4,440	2,074	323,398
Drawn welding rods or welding wire in coils, or in cut lengths, for gas or electric welding	Net ton	10,735	10,836	1,206,652
Wire bale ties	Net ton	5,928	5,832	531,000

Table 11 - PRODUCTS MANUFACTURED, 1942 - Continued

Products	Unit of measure	Quantity made	Quantity sold	Income from sales
SECTION "B" - NAILS, STAPLES AND TACKS				
Wire nails, iron and steel (all wire nails, including shoe rivets and other small sizes of wire nails)	kegs	1,487,565	1,587,644	6,267,500
Cut nails, iron and steel, (all cut nails, and spikes cut from plate, including special large head cut shingle nails, but not including clout nails nor other small nails commonly classed as tacks)	kegs	20,829	21,310	153,968
Wire staples, iron and steel, of all kinds	kegs	37,196	40,623	188,244
Tacks, all kinds, (all cut and wire tacks, including hob nails, clout nails, trunk nails and other small cut nails, but not cut shingle nails)	Lb.	2,987,403	3,161,490	453,006
Miscellaneous, including thumb tacks, upholstery nails, brass and copper nails and staples for paper stitching .....	...	...	...	232,745
SECTION "C" - WIRE FENCING AND WIRE NETTING				
Woven wire farm fence	tons	11,190	12,342	1,160,676
Woven wire lawn fence	tons	39	91	12,752
Woven wire chain link fabric (including tonnage for industrial fences)	tons	1,195	1,446	207,948
Steel fence posts and railing	tons	378	786	91,728
Gates	No.	13,169	14,387	125,169
Snow fence (x) .....	...	...	...	100,336
Welded or woven wire mesh, steel, for concrete reinforcement, or purposes other than fencing (x)	tons	2,960	3,031	308,792
Wire cloth of iron or steel, including screen cloth .....	...	...	...	1,336,723
Woven wire poultry netting, steel	tons	830	830	226,877
SECTION "D" - WIRE GOODS				
Steel wire rope or cable (x)	tons	14,789	14,944	7,228,165
Twisted strand wire (including galvanized guy wire, wire clothes lines, twisted bed strand) (x)	tons	1,470	1,568	381,904
Steel hoops, wire and other, for casks, barrels, or kegs	M	10,008	6,355	137,768
Steel wire upholstering springs and constructions (x) .....	...	...	...	2,105,181
Other steel wire springs (except bed-springs) (x) .....	...	...	...	3,789,211
Window screens (x) .....	...	...	...	62,852
Wire shapes of all kinds (x) .....	...	...	...	249,898
Miscellaneous wire goods (including wire lacing, hair pins, tire braids, wire paper clips, wire guards, etc.)	2,665,672

Wire

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Table 11 - PRODUCTS MANUFACTURED, 1942 - Concluded

Product	Unit of measure	Quantity made	Quantity sold	Income from sales
				\$
SECTION "E" - PRODUCTS OTHER THAN				
WIRE AND WIRE GOODS				
Bolts and nuts(x), horseshoe calks, screws(x), perforated metals, etc.	5,212,483
TOTAL	42,702,658

Table 12 - TOTAL PRODUCTION IN CANADA AND FACTORY SALES OF STEEL WIRE, 1939 - 1942

Year		Plain wire	Galvanized wire	Wire, other coated	Barbed wire
1939 - Quantity made	Tons	176,262	44,608	6,118	12,449
- Quantity sold	Tons	46,311	23,045	4,645	14,391
Income from sales	\$	3,285,583	1,797,920	484,694	1,023,257
1940 - Quantity made	Tons	222,727	60,721	6,795	13,509
Quantity sold	Tons	59,428	34,082	5,758	12,867
Income from sales	\$	4,552,618	3,032,716	646,112	983,631
1941 - Quantity made	Tons	220,285	53,422	7,323	14,105
Quantity sold	Tons	63,734	26,590	5,348	17,371
Income from sales	\$	5,057,922	2,477,825	624,115	1,270,256
		All wire drawn from rods	Galvanized wire	Barbed wire	
1942 - Quantity made	Tons	202,116	46,383	10,085	
Quantity sold	Tons	53,588	23,422	10,975	
Income from sales	\$	4,598,172	2,451,878	891,960	

NOTE: Figures on quantity made include the amounts made and used in subsequent processes in the same plants, such as the manufacture of nails, galvanized wire, etc.

Table 13 - TOTAL PRODUCTION IN CANADA AND FACTORY SALES OF WIRE FENCING, 1939 - 1942

Year		Quantity made	Quantity sold	Income from sales
				\$
1939 - Farm fence		8,190	8,475	769,469
Lawn fence		545	565	82,680
Chain link fabric		2,572	2,041	272,269
TOTAL for 1939		11,307	11,081	1,124,418

Wire

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Table 13 - TOTAL PRODUCTION IN CANADA AND FACTORY SALES OF WIRE FENCING, 1939 - 1942
(Concluded)

Year	Quantity made	Quantity sold	Income from sales
			\$
1940 - Farm fence	10,504	9,776	933,321
Lawn fence	527	466	71,843
Chain link fabric	2,307	2,044	303,379
TOTAL for 1940	13,338	12,286	1,308,543
1941 - Farm fence	11,006	11,722	1,144,268
Lawn fence	663	681	97,995
Chain link fabric	2,444	2,517	346,112
TOTAL for 1941	14,113	13,920	1,588,375
1942 - Farm fence	11,190	12,342	1,160,676
Lawn fence	39	91	12,752
Chain link fabric	1,195	1,446	207,948
TOTAL for 1942	12,424	13,879	1,381,376

Table 14 - TOTAL PRODUCTION IN CANADA AND FACTORY SALES OF NAILS, TACKS AND STAPLES,
1939 - 1942

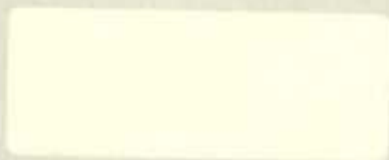
Year	Iron and steel wire staples kegs	Iron and steel wire nails and spikes kegs	Wire and cut tacks of all kinds lb.	Iron and steel cut nails kegs
1939 - Quantity made	35,197	1,329,859	2,850,819	16,583
Quantity sold	39,856	1,490,554	3,091,738	18,204
Value of sales \$	170,180	5,460,134	367,357	137,202
1940 - Quantity made	34,253	1,465,736	2,996,849	21,683
Quantity sold	34,373	1,431,260	2,832,447	21,694
Value of sales \$	156,479	5,558,130	345,498	209,602
1941 - Quantity made	34,966	1,652,644	3,301,301	24,100
Quantity sold	41,730	1,770,965	3,725,004	24,599
Value of sales \$	190,777	7,060,464	528,244	162,816
1942 - Quantity made	37,198	1,487,565	2,987,403	20,829
Quantity sold	40,623	1,587,644	3,161,490	21,310
Value of sales \$	188,244	6,267,500	453,006	153,968

Table 15 - TOTAL PRODUCTION IN CANADA AND FACTORY SALES OF STEEL WIRE ROPE AND CABLE, 1933 - 1942 (From all industries)

Year	Wire rope and cable			Twisted strand wire			Total value of sales
	Quantity made	Quantity sold	Income from sales	Quantity made	Quantity sold	Income from sales	
	Tons	Tons	\$	Tons	Tons	\$	
1933		Not	1,138,338		Not	98,250	1,236,588
1934		avail-	1,818,861		avail-	84,544	1,903,405
1935		able	1,971,742		able	168,449	2,140,191
1936			2,292,379			98,883	2,391,262
1937			3,134,073			293,285	3,427,358
1938			2,567,931			139,263	2,707,194
1939			3,045,417			207,905	3,253,322
1940	12,916	12,779	5,132,285	2,407	1,569	346,804	5,479,089
1941	17,075	17,818	6,806,336	2,610	2,652	583,495	7,389,831
1942	18,038	18,193	8,978,725	1,871	2,058	551,500	9,530,225

Table 16 - TOTAL PRODUCTION IN CANADA AND FACTORY SALES OF STEEL BALE TIES, 1933 - 1942

Year	Quantity made	Quantity sold	Income from sales
	Tons	Tons	\$
1933	3,498	3,567	276,805
1934	5,021	5,280	396,806
1935	4,366	4,373	335,263
1936	4,975	4,897	365,964
1937	5,932	6,315	509,011
1938	3,872	3,924	319,434
1939	5,744	5,061	403,435
1940	5,937	5,825	505,018
1941	5,929	6,064	543,719
1942	5,928	5,832	531,000



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