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MINING, METALLURGICAL & CHEMICAL STATISTICS

THE WIRE AND WIRE GOODS INDUSTRY

IN

CANADA

1946



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Dominion Statistician: Director - Division of Census of Industry and Merchandising: Chief - Mining, Metallurgical and Chemical Statistics: Herbert Marshall W. H. Losee H. McLeod

ANNUAL INDUSTRY REPORT

IRON AND STEEL AND THEIR PRODUCTS GROUP

THE WIRE AND WIRE GOODS INDUSTRY, 1946

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 1946 the 97 factories in this industry were distributed by provinces as follows: Ontario, 56; Quebec, 25; British Columbia. 10; New Brunswick, 2; Nova Scotia, 1; Manitoba, 2; and Alberta, 1.

Factory sales in 1946 were valued at \$40,133,889 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 1945 factory sales were reported at \$41,026,403 and in 1944 at \$41,609,836.

The 12 wire drawing plants which operated in 1946 employed 3,443 workers while the 85 establishments engaged only in the fabricating of wire goods had 2,697 workers. Sales from the wire drawing plants amounted to \$23,873,191 and from the fabricating plants to \$16,260,698.

The average number of employees in all plants in 1946 was 6,140 of whom 3,921 worked in Ontario and 1,510 in Quebec. Payments to the 1,112 salaried employees totalled \$2,769,133 while the 5,028 wage-earners were paid \$8,361,553, a total for salaries and wages of \$11,130,686. In 1945 payments amounting to \$10,791,526 were made to 6,158 employees.

Table 1 - PRINCIPAL STATISTICS OF THE WIRE AND WIRE GOODS INDUSTRY, 1936-1946

Year	Number	Average number of em-	Salaries and	Cost of fuel and electricity	Cost of purchased materials	Gross Sell- ing value of shipments
	plants	ployees	wages	at works	at works	at works
			\$	*	\$ 	\$
1936	73	3,806	4,225,245	548,122	5,529,986	18,369,397
1937	75	4,536	5,531,891	602,503	7.976,821	23,558,635
1938	77	4,331	5,096,940	556,849	6,005,857	20,605,207
1939	76	4,523	5,684,938	621,476	7,262,999	25,063,379
1940	73	5,126	7,126,134	717,339	10,298,230	32,446,893
1941	82	6,396	9,107,560	801,366	13,235,277	42,395,022
1942	78	6,877	10,625,721	824,176	13,704,549	42,702,658
1943	80	6,674	10,993,311	903,977	12,717,237	41,117,308
1944	84	6,575	11,449,592	934, 152	13,506,456	41,609,836
1945	89	6,158	10,791,526	953,731	13,837,950	41,026,403
1946	97	6,140	11,130,686	893,986	12,528,160	40,133,889
Per cent che	ange					
1946 from 19	945	-0.3	£ 3.2	-6.3	-1.0	-2.1

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, 1945 and 1946

Year	Number of plants	Average number of em- ployees	Salaries end wages	Cost of fuel and electricity at works	Cost of purchased materials at works	Gross sell- ing value of shipments at works
			\$		\$	\$
1 9 4 5 Vire-drawing						
plants	13	3,483	6,303,760	762,281	6,645,534	23,896,782
Fabricating						and the second second
plants only	76	2,675	4,487,766	191,450	7,192,416	17,129,621
TOTAL	89	6,158	10,791,526	953,731	13,837,950	41,026,403

This report was prepared by J. J. Parchelo, Statistician, Metal & Chemical Products.

Toble 2 - DETNICTERY							
Table & - Lutholty	STATIST	ICS, BY SUB-	GROUPS, 1945	and 194	6 (Continued)		
Numbe	r	Average	Salaries		Cost of fuel and	Cost of purchased	Gross sell- ing value of
Year of		of em-	and		electricity	materials	shipments
plant	8	ployees	Wages		at works	at works	at works
			8		\$	\$	\$
1946							120
Wire-drawing							
plants 12		3,443	6,469,503	3	713,453	6,591,485	23,873,191
Fabricating					ALL THEIR		
plants only 85		2,697	4,661,183	3	180,533	5,936,675	16,260,698
TOTAL 97		6,140	11,130,686	6	893,986	12,528,160	40,133,889
Table 3 - PRINCIPAL	STATIST			and 1946			
	Mr	Average			Cost of	Cost of	Gross sell-
V	Number	number		103	fuel and	purchased	ing value of
Year		of em-			electricity	materials	shipments
	plants	ployee	s Wages	3	at works	at works	at works
1945			₽		*	₩	\$
Nova Scotia	1)	The state of	1			A CONTRACTOR OF THE PARTY OF TH	1710
New Brunswick	2)	395	682,	,198	74,582	669,368	3,239,216
Quabec	23	1,544	2,495,	564	281,326	2,592,753	9,843,227
Ontario	52	3,820			566,472	7,854,300	23,062,251
Manitoba	2)						
Alberta	1)	12	11,	401	607	7,157	19,894
British Columbia.	8	387	686,	598	30,744	2,714,372	4,861,815
CANADA	89	6,158	10,791,	526	953,731	13,837,950	41,026,403
1946							
Nova Scotia	1)	100					
New Brunswick	2)	398	575,	569	60,605	645,596	3,137,565
Quebec	25	1,510	2,637,	673	287,695	2,588,567	10,130,906
Ontario	56	3,921			517,025	7,742,866	23,699,086
Manitoba	2)						
Alberta	1)	15	21,	969	1,101	10,829	41,493
British Columbia.	10	296	553,	748	27,560	1,540,302	3,124,839
CANADA	97	6,140	11,130,	686	893,986	12,528,160	40,133,889
- 13 17 17 17 17 17 17 17 17 17 17 17 17 17	GAT ANT	70 1117 0.00					
Table 4 - EMPLOYEES			of Employees		and 1946		TOTAL
Province	On Sala		On Wages		Salaries	Wages	SALARIES
		Female Ma		TOTAL			and WACES
					8	8	\$
1945						A SELECTION OF	
Nova Scotia)	12	6 3	73 4	395	36,547	645,651	682,198
New Brunswick)							
*	151	88 1,0		1,544	543,791	1,951,773	2,495,564
	340	228 2,5	76 676	3,820	1,313,134	5,602,631	6,915,765
Manitoba	4		8	12	4,700	6,701	11,401
Alberta)							
British Columbia.	35		34 100	387	157,927	528,671	686,598
CANADA	542	340 4,2	76 1,000	6,158	2,056,099	8,735,427	10,791,526
1 9 4 6							
Nova Scotia)	14	6 3	78	398	43,420	532,149	575,569
New Brunswick)	206	92 1.0					
*	475	260 2,7		1,510	700,420	1,937,253	2,637,673
Manitoba)			30 967	3,921	1,850,911	5,490,816	7,341,727
Alberta)	4	1	10	15	8,860	13,109	21,969
British Columbia.	38	16 1	77 65	296	165,522	388,226	553,748
	-	10	, , 05	250	100,000	000,000	550,746

8,361,553

11,130,686

737

CANADA

375

4,368

660

6,140

2,769,133

Table 5 - WAGE-EARNERS, BY MONTHS, 1945 and 1946 (On the last work day of each month)

	1945			1946		
Month	Male	Female	Total	Male	Female .	Total
January	4,168	1,068	5,236	4,616	691	5,307
February	4,179	1,124	5,303	4,675	687	5,362
March	4,192	1,150	5,342	4,757	700	5,457
April	4,183	1,150	5,333	4,782	722	5,504
May	4,168	1,133	5,301	4,782	733	5,515
June	4,155	1,065	5,220	4,745	720	5,465
July	4,113	1,048	5,161	3,947	574	4,521
August	4,183	975	5,158	3,879	581	4,460
September	4,364	903	5,267	2,977	503	3,480
October	4,483	849	5,332	4,261	646	4,907
November	4,489	765	5,254	4,474	673	5,147
December	4,597	732	5,329	4,485	662	5,147
AVERAGE	4,276	1,000	5,276	4,368	660	5,028

Table 6 - FUEL AND ELECTRICITY USED, 1945 and 1946

		1 9	4 5	1 9	4 6
Kind	Unit of measure	Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Bituminous coalCanadian	ton	12,135	95,329	12,461	106,056
Imported	ton	26,208	219,164	22,638	200,308
Anthracite coal	ton	113	1,850	212	3,194
Coke	ton	381	4,187	187	2,095
Gasoline	Imp.gal.	38,687	11,162	47,472	14,345
Kerosene	Imp.gal.	1,248	224	1,294	258
Fuel oil	Imp.gal.	184,751	16,690	188,047	19,345
Wood	cord	430	2,280	368	1,999
Gas - Manufactured (x)	M cu.ft.	602,463	184,596	508,610	151,924
Natural	M cu.ft.	7,820	5,951	9,927	6,256
Other fuel			1,800		1,358
Electricity purchased	K.W.H.	46,749,389	410,498	39,698,960	386,848
TOTAL	-1	***	953,731		893,986

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

Table 7 - POWER EQUIPMENT, 1945 and 1946

	Ordinari	ly in Use	In Reserve or Idle	
Andrew State of the State of th	Number of units	Total rated horse power	Number of units	Total rated
1 9 4 5				and the state of the
Gasoline, gas and oil engines	8	131	1	6
Electric motors run by purchased power	2,590	22,062	155	1,134
TOTAL	2,598	22,193	156	1,140
Electric motors run by primary power (x)	166	3,524	2	6
Stationary power boilers	18	2,518	1	250
Motor-generator sets	30	5,058	2	295
1 9 4 6				
Casoline, gas and oil engines	7	111	1	6
electric motors run by purchased power	3,198	24,214	150	1,231
TOTAL	3,205	24,325	151	1,237
Electric motors run by primary power (x)	52	1,980		
Stationary power boilers	16	2,243	3	420
Motor-generator sets	35	5,829		

Some of these motors were operated by primary power generated in connection with other phases of the companies' operations. The primary power is recorded in the bulletin covering the phase of operations concerned, but the motors used in connection with the wire drawing operations are shown here.

Table 8 - MATERIALS USED IN MANUFA	CTURING,	1340
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		Materials	Purchased	Materials
Material	Unit of measure	made in producers' own works	Quantity	Cost at
		• 1111111111		\$
Iron and steel -		1764	TO A SE	1000
Bars	Net ton	494	9,833	142,863
Wire rods	Net ton	143,881	87,135	3,385,842
Wire - Plain	Net ton	41,371	26,792	3,371,771
Galvanized	Net ton	8,575	11,302	1,436,546
Sheets	Net ton	1,412	823	98,140
Strips	Net ton	19	2,962	231,297
Pipe and tubing	Net ton	124	387	57,335
Nail plate	lb.	1,139,898	287,292	15,504
Tack plate	1b.	2,350,604	1,776,552	158,812
Other iron and steel	• • •			90,342
Other metals -				
Copper bars, rods, sheets, etc	lb.		2,001,633	293,668
Brass and bronze rods, sheets, etc	lb.		1,303,402	273,073
Lead	lb.		566,828	29,578
Tin	lb.		11,443	7,160
Zinc (spelter)	1b.		5,164,262	281,061
All other metals				152,587
ALL OURS MOUNT OF THE STATE OF				
Other materials -				
Acid, muriatic, 20° Be	1b.		1,623,752	24.077
Acid, sulphuric, 66° Be	1b.	100	11,890,064	111,109
Shipping containers	104		***	858,134
All other materials				1,509,261
TOTAL				12,528,160

Table 9 - PRODUCTS MANUFACTURED, 1946 NOTE: Data for the items specified below represent, except where indicated by (1), the totals for Canada as well as for the wire and wire goods industry, according to returns to the Industrial Census for 1946. The mark (1) indicates that there was also a production in other industries.

Unit of Quantity Quantity Income from

Income from

Product	Unit of	Quantity	Quantity	Income from
110000	measure	made	sold	sales
CONTRACT NAME AND ADDRESS.				4
SECTION "A" - WIRES				
(Total production, whether for sale or for				
further manufacture)				
Iron and steel wires -				
Plain wire	Net ton	184,392	47,792	4,344,673
Galvanized wire	Net ton	49,325	20,056	2,011,727
Other coated wire	Net ton	2,563	2,334	266,878
Barbed wire	Net ton	8,895	8,968	850,512
Cold rolled flat wire of all sizes, qualities				
and finishes, including nut steel	Net ton	6,317	3,699	551,908
Drawn welding rods or welding wire in coils,				
or in cut lengths, for gas or electric welding.	Net ton	7,878	7,966	951,000
Wire bale ties	Net ton	5,196	5,099	519,405
SECTION "B" - NAILS, STAPLES AND TACKS Wire nails, iron and steel (all wire nails, in- cluding shoe rivets and other small sizes of				
wire nails)	kegs	1,176,656	1,210,754	5,338,431
head cut shingle nails, but not including clout nails nor other small nails cormonly classed				
as tacks)	kegs	18,720	19,549	157,710
Wire staples, iron and steel, of all kinds Tacks, all kinds (all cut and wire tacks, incl-	kegs	32,673	33,607	174,222
uding hob nails, clout nails, trunk nails and				
other small cut nails, but not cut shingle nails) Miscellaneous, including thumb tacks, upholstery	1b.	5,009,389	5,122,004	693,349
nails, brass and copper nails and staples for				
paper stitching		* * *	* * *	434,250

Table 9 - PRODUCTS MANUFACTURED, 1946 (Concluded)

Income from sales

Product	Unit of measure	Quantity made	Quantity sold	Income from
	III OG OG I O	Date o	BOIL	30100
SECTION "C"- WIRE FENCING AND WIRE NETTING				
oven wire farm fence	tons	17,876	20,277	1,992,011
oven wire chain link fabric (including ton-		.,		-,,
nage for industrial fences)	tons	1,695	1,616	286,046
teel fence posts and railing (x)		3,480	3,310	259,684
ates		22,100	21,878	182,802
now fence (A)		*		182,770
elded or woven wire mesh, steel, for concrete	• • • •	* * *	0 = 0	200,110
reinforcement, or purposes other than fenc-				
ing (x)	tons	2,963	3,206	503,635
ire cloth of iron or steel, including screen	COILS	2,300	0,200	500,000
				1 005 377
cloth		1 00%	3 00%	1,805,373
oven wire poultry netting, steel	tons	1,093	1,093	279,207
GROWTON WAS WITHIN GOODS				
SECTION "D" - WIRE GOODS		20 503	36 004	C 000 543
teel wire rope or cable (1)	. tons	13,501	13,704	6,376,541
wisted strand wire (including galvanized guy		2	2 01/2	# . F . 400
wire, wire clothes lines, twisted bed strand)(A)	tons	1,738	1,813	365,688
teel hoops, wire and other, for casks, barrels	24			* 00 700
or kegs	. 1	0 0 0	* * *	122,302
teel wire upholstering springs and construct-				
ions		* * *		1,916,664
ther steel wire springs (except bed springs)	0 0 v	• * •	* * *	1,754,762
discellaneous wire goods (including wire lacing,				
hair pins, tire braids, wire paper clips, wire				
guards, etc.) (#)		0 0		3,597,767
SECTION "E" - PRODUCTS OTHER THAN WIRE AND				
WIRE GOODS				
Bolts and nuts (x), horseshoe calks, screws (x),				4 105 000
perforated metals, etc			• • •	4,185,866
mount received for repair work	4 . 1	111	4 + +	68,716
TOTAL				40,133,889
Table 10 - TOTAL PRODUCTION IN CANADA AND FACTOR	Y SALES OF STEE	BL WIRE, 1943-19		
			Wire	
Year	Plain	Galvanized	other	Barbed
	wire	wire	coated	wire
1943 - Quantity made tons	191,2		not	9,801
Quantity sold tons	52,27		avail-	9,920
Income from sales\$	4,480,5	38 1,991,901	able	866,090
1944 - Quantity made tons	200,20		1,650	12,556
Quantity sold tons	51,5		1,556	12,471
Income from sales \$	4,432,4	05 2,183,545	139,509	1,056,379
104E 0 144 3-	214,4	75 60,246	2,789	11,680
1945 - Quantity made tons Quantity sold tons Incoms from sales	56,0° 4,605,0°	70 23,711	2,131 218,387	11,476 975,166

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.

184,392

47,792 4,344,673

49,325

20,056 2,011,727

2,563 2,334 226,878

8,895

8,968

850,512

tons

tons

Table 11 - TOTAL PRODUCTION IN CANADA AND FACTORY SALES OF WIRE FENCING, 1943-1946

Year	Quantity made	Quantity sold	Income from sales
		(net tons)	\$
1943 - Farm fence	14,298	14,033	1,314,339
Chain link fabric	400	394	73,601
TOTAL	14,698	14,427	1,387,940
1944 - Farm fence	21,652	20,620	1,885,273
Chain link fabric	1,048	1,030	181,192
TOTAL	22,700	21,650	2,066,465
1945 - Farm fence	23,424	22,839	2,092,807
Chain link fabric	1,206	1,234	194,260
TOTAL	24,630	24,073	2,287,067
1946 - Farm fence	17,876	20,277	1,992,011
Chain link febric	1,695	1,616	286,046
TOTAL	19,571	21,893	2,278,057

Table 12 - TOTAL PRODUCTION IN CANADA AND FACTORY SALES OF NAILS, TACKS AND STAPLES, 1943-1946

	T	Iron and	Wire and	
Vaca	Iron and	steel wire	cut tacks	Iron and
Year	steel wire	nails and	of all	steel cut
	 staples	spikes	kinds	nails
	kegs	kegs	lb.	kegs
1943 - Quantity made	42,597	1,471,260	3,597,925	21,028
Quantity sold	45,888	1,514,218	3,454,957	21,727
Value of sales	\$ 216,157	5,965,727	478,456	168,245
1944 - Quantity made	46,173	1,298,456	4,062,431	19,180
Quantity sold	45,082	1,335,194	3,980,544	17,663
Value of sales	\$ 193,075	5,250,604	551,350	134,492
1945 - Quantity made	40,600	1,399,595	4,265,821	15,644
Quantity sold	43,457	1,399,355	3,311,052	17,212
Value of sales	\$ 200,863	5,512,718	611,088	136,224
946 - Quantity made	32,673	1,176,656	5,009,389	18,720
Quantity sold	33,607	1,210,754	5,122,004	19,549
Value of sales	\$ 174,222	5,338,431	693,349	157,710

Note: 1 keg-= 100 pounds.

Table 13 - TOTAL PRODUCTION IN CANADA AND FACTORY SALES OF STEEL WIRE ROPE AND CABLE, 1936-1946

	Wire	Rope and	Cable	Twisted Strand Wire				
Year	Quantity made	Juantity from sold sales		Quantity made	Quantity	Income from sales	Total Value of Sales	
	Tons	Tons	\$	Tons	Tons	\$	\$	
1936	N c	t	2,292,379	N	o t	98,883	2,391,262	
1937	ave	i 1-	3,134,073	a v	a i l-	293,285	3,427,358	
1939	a b	1 0	3,045,417	а	b l e	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	
1943	18,360	18,341	8,964,101	1,505	1,527	356,279	9,320,380	
1944	21,118	21,107	9,841,967	1,754	1,847	455,472	10,297,439	
1945	20,466	20,148	9,346,047	2,472	2,408	561,239	9,907,286	
1946	15,341	15,544	7,219,582	2,081	2,081	434,915	6,550,549	

Name of Firm

Table 14 - TOTAL PRODUCTION IN CANADA AND FACTORY SALES OF STEEL BALE TIES, 1936-1946

ear	Quantity made	Quantity sold	Income from sales	Year	Quantity made	quantity sold	Income from sales
	Tons	Tons	\$		Tons	Tons	\$
936	4,975	4,897	365,964	1942	5,928	5,832	531,000
.937	5,932	6,315	509,011	1943	4,332	4,411	398,785
938	3,872	3,924	319,434	1944	4,857	4,901	450,353
939	5,744	5,061	403,435	1945	5,232	5,311	497,661
940	5,937	5,825	505,018	1946	5,196	5,099	519,405
941	5,929	6,064	543,719				

DIRECTORY OF FIRMS IN THE WIRE AND WIRE GOODS INDUSTRY IN CANADA, 1946

Note: This is not intended to be a complete list of concerns which manufacture wire and wire goods in Canada, but is merely a list of the firms which the Bureau has classified to the Wire and Wire Goods Industry. This industry includes only plants that manufactured wire or wire goods of iron or steel as their chief products. Producers of copper wire and cable for electrical purposes have been classified to the Electrical Apparatus and Supplies Industry.

Move	Sontia			

Dominion Steel and Coal Corp. Ltd. (2)

New Brunswick New Brunswick Wire Fence Co. Ltd. Dominion Steel and Coal Corp. Ltd. (1) (James Pender & Co. Ltd.)

Quebec -Anglo-Canadian Wire Rope Co. Ltd. Art Wire and Metal Industry, Ltd. Artistic Wire Works Belanger, J.A. Bostitch-Canada Ltd. Canadian Blank Book Company Canadian Staples Limited Canadian Tube & Steel Products Limited (A) Cogan Metal Products Limited City Wire & Iron Products Co. Dominion Wire Rope and Cable Co. Limited Foster, H. S., & Son Reg'd General Wire Works Hump Hairpin Mfg. Co. of Canada, Ltd. Maxwell Manufacturing Co. New York Wire Works Ltd. Peck Rolling Mills Ltd. Pennsylvania Co. of Canada Perfect Dryers Ltd. Renmarc Wire Products Reg'd Security Fence Co. Ltd. Steel Company of Canada, Ltd. (2) Steel Company of Canada, Ltd. (x) Steel Heddle Co. of Canada, Limited United Shoe Machinery Co. of Canada; Ltd.

Alton Machine Company
Andrews Wire Works of Canada Ltd.
Artcraft Shoppe
Argos Mfg. Co.
Atlas Spring & Cushion Co.
Barret Bob Pin Co. Ltd.
Brown Wire Specialty Co.
Bull Dog Lacer Company Canada, Limited
Canada Tack and Nail Company
Canadian Spring Co.

Location of Plant

Sydney

402 Main St., Moncton 320 Charlotte St., Saint John

Fairview Ave., Lachine 5549 - 11th Ave., Rosemount, Montreal 8152 Drolet St., Montreal Riviere Bleue Confederation Bldg., Montreal 7275 St. Urbain St., Montreal 504 St. Lawrence Blvd., Montreal 5900 St. Patrick St., Montreal 380 Dorchester St. W., Montreal 1584 Laurier Ave. E., Montreel 175 St. Joseph St., Lachine Granby 1315 St. Catherine St. E., Montreal 2035 Ste. Anne St., St. Hyacinthe 1950 Rosemount Blvd., Montreal 4375 Iberville St., Montreal 851 Mill St., Montreal 1361 Notre Dame E., Montreal 6651 Des Ecores St., Montreal 2166 Lartigue St., Montreal 2651 St. Catherine St. E., Montreal 2320 Notre Dame St. W., Montreal 75 St. Joseph St., Lachine 6259 Notre Dame St. E., Montreal 2610 Bennett Ave., Montreal

911 St.Clarens Ave., Toronto Watford 60 Colborne St., Toronto Stoney Creek 104 Sherbourne St., Toronto 255 Devenport Road, Toronto 16 George St., Hamilton 14 Ferguson Ave., Hamilton Morrisburg 2784 Dundas St. W., Toronto

Name of firm

Location of Plant

Ontario -Canadian Steel Corporation Ltd. (1) Canadian Wire Specialties City Wire Works Co. Denning-Canadian Fence Company Dominion Tack & Nail Company Limited Donald Ropes & Wire Cloth Limited Donwood Enterprises Ferrier Wire Goods Company Fitzgerald-McAvoy Wire Goods Frost Steel & Wire Company Limited (A) Garden City Wire Works Co., General Spring Products Ltd. Gerrard Company Ltd. Graham Nail & Wire Products, Limited (1) Greening, B., Wire Co. Ltd. (A) Hamilton Wire Products Limited Hollup Corporation Limited Hosiery Stretcher Mfg. Co. Imperial Wire Specialty Isard Le Fevre Mfg. Co. Ltd. K. and S. Wire Designs Keenan Pence Company Kitchener Spring Co. Limited Laidlaw Bale Tie & Wire Company Limited (x) Lucas, Charles, Co. Lundy Steel Products, Limited Marshall Specialty Co. Ltd. Modern Ornamental Iron & Wire Works National Standard Company Canada Ltd. No-Sag Spring Company Limited Ontario Wire Products Co. Pritchard, E. W., and Sons Regal Spring Co. Rice, Henry K. Robertson, P. L. Mfg. Co. Ltd. Servos & Bateman Steel Company of Canada Limited (1) Steel Brothers Ltd. Steele's Wire Springs Limited Superior Wire Works Toronto Wire Works Co. Tyler, W. S., Co. of Canada, Ltd. Wallace Barnes Company Limited Waterloo Spring Co. Ltd. Windsor Fence & Wire Products

Manitoba-Nolin-Hunter Mfg. Co. Phoenix Mfg. Co. Ltd.

Alberta Wire Works

British ColumbiaAbel Mfg. Co.
B. & B. Wire Works
B. C. Anchor Fence Co. Ltd.
British Ropes Canadian Factory Limited
Clifford Wire Works
Industrial Wire & Iron Works
Morrison Steel & Wire Co. Ltd. (1)
Pacific Wire Company
Simplex Wire Supplies
Wright's Canadian Ropes Limited

(x) Wire-drawing plants.

Young, L. A., Industries of Canada, Ltd.

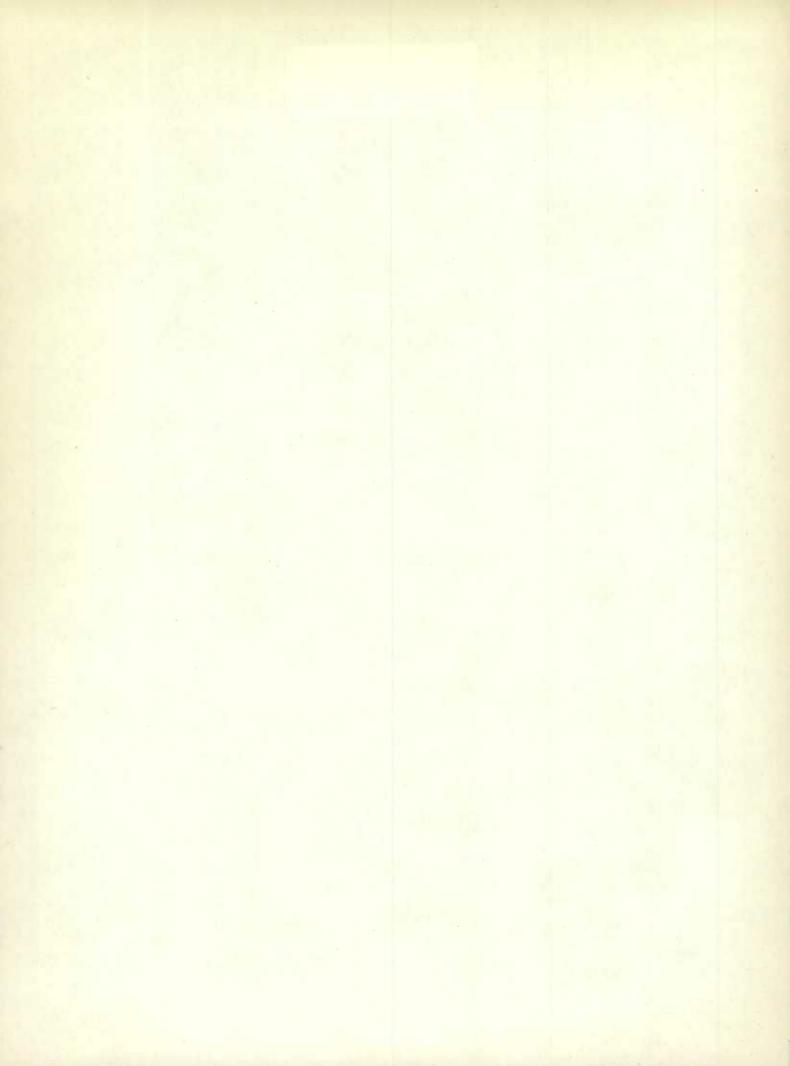
Olibway 905 Bathurst St., Toronto 1082 Queen St. W., Toronto Perth 431 Dundas St., Galt 180 King William St., Hamilton 157 Dawes Road, Toronto 22 Mulock Ave., Toronto 782 King St. W., Toronto 250 Lottridge St. N., Hamilton Pelham Road, St. Catharines 65 Halls Lane, Kitchener 390 King St. E., Hamilton 35 Fraser Ave., Toronto 2 55 Queen St., Hamilton 304 Gage Ave., Hamilton 107 Atlantic Ave., Toronto 103 Catharine St. S., Hamilton 1242 Bloor St. W. (rear) Toronto 500 King St. W., Toronto 45 Ottawa St. N., Hamilton Third Ave., E., Owen Sound 34 Bridgeport Rd., Waterloo Birmingham St., Hamilton 187 Duchess St., Toronto Dunnville 1417 Dundas St. W., Toronto 703 Adelaide St. W., Toronto 133 Woolwich St., Guelph 445 Nightingale Ave., London Stoney Creek 99 Torrens Ave., Todmorden 68 Claremont St., Toronto 500 Wellington St. W., Toronto Bronte St., Milton 46 Kelly St., Hamilton 334 Wellington St. N., Hamilton 47 Johnston St., Guelph 33 Baker St., Guelph 1216 Dundas St. W., Toronto 978 Queen St. W., Toronto Kensington Place, St. Catharines 274 Sherman Ave. N., Hamilton 102 Breithaupt St., Kitchener 2848 Howard Ave., Windsor

376 Bertrand St., St. Boniface 674 Tache St., St. Boniface

1441 McDougall Ave., Windsor

10846 .. 95th St., Edmonton

600 West 6th Ave., Vancouver 1328 W. 73rd Ave., Vancouver 1031 Pender St. W., Vancouver Granville Island, Vancouver 1217 Wharf St., Victoria 138 E. Fourth Ave., Vancouver Granville Island, Vancouver 1362 Franklin St., Vancouver 842 Powell St., Vancouver Granville Island, Vancouver



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