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41-216

ANNUAL

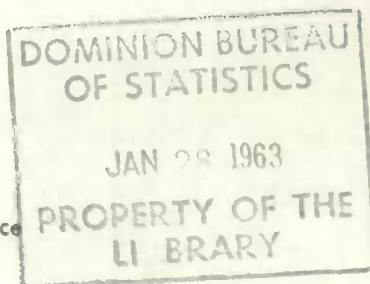


WIRE AND WIRE PRODUCTS MANUFACTURERS 1960

Formerly The Wire and Wire Goods Industry

ANNUAL CENSUS OF MANUFACTURES

Published by Authority of
The Honourable George Hees, Minister of Trade and Commerce



DOMINION BUREAU OF STATISTICS

Industry and Merchandising Division

October 1962
6523-522

Price 50 cents

SYMBOLS

The interpretation of the symbols used in the tables throughout this publication is as follows:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.

EXPLANATORY NOTES

This report is one in a series of about 140 publications which present the results of the 1960 Census of Manufactures. Most reports in this series refer to specific industries, but there are summary reports for Canada and the provinces and for major industry groups. Adoption of the revised Standard Industrial Classification for 1960 compilations has necessitated changes in titles of many reports in this annual series. The content of many industries has also been affected (see following note on Industrial Classification).

Industry statistics given in these reports refer to number of establishments, employees, salaries and wages, cost of materials, supplies, fuel and electricity, gross value of shipments, inventories and value added by manufacturing. Details of materials used and products shipped are also given. Descriptions of the principal industry statistics, with special reference to 1960 are as follows:

Period Covered

Firms are asked to submit figures for the calendar year, if at all possible, and most reports are on this basis. Financial year reports for periods differing from the calendar year are accepted in instances where the firms find it impossible to supply calendar year data from accounting records. However the data on employees, salaries and wages are requested on a calendar year basis in all cases.

Establishment

Data for the annual census is collected on an establishment basis. A firm with more than one plant is required to file a report for each plant. In most cases an establishment is a complete factory; sometimes, however, a plant is divided into two or more establishments when it carries out operations classifiable to different industries and when separate accounting records are available. Usually the statistics for an establishment relate only to the manufacturing activities. Other activities such as construction at the plant by its own employees, wholesale or retail activities carried on at the plant location, etc., are not included. Plants engaged solely in repair work (except in the case of furniture, shipbuilding, boat building, aircraft and railway rolling stock industries) are not included but plants occupied in assembling parts into complete units are included.

Employees

Administrative and office employees include all executives and supervisory officials such as presidents, vice-presidents, secretaries, treasurers, etc., together with managers, professional and technical employees, superintendents and factory supervisors above the working foremen level, and clerical employees. Working owners and partners are also included in this category.

Production and related workers include all other factory workmen whether paid on a monthly, weekly, hourly or piece-work basis. Working foremen doing work similar to that of the employees they supervise are included, as are maintenance, ware-

housing and delivery staffs. Employees on new construction work, in retail or wholesale operations, on outside piece work etc. are not included.

Production workers are reported by months, an average for the year being obtained by summing the monthly figures and dividing by twelve. This procedure is followed even though the plant did not operate in all months. Figures on employment refer to calendar years whether or not some establishments reported other data on a financial year basis.

Salaries and Wages

Salaries and wages refer to gross earnings of the employees described above, including salaries, wages, commissions, bonuses, the value of room and board where provided, deductions for income tax and social services such as sickness and unemployment insurance, pensions, etc., as well as any other allowances forming part of the employees' wages. Payments for overtime are included.

Salaries refer to amounts paid to administrative and office employees. Withdrawals by working owners or partners for normal living expenses for self and family are included but not their withdrawals for income tax. Wages refer to the amounts paid to production and related workers as defined above. Data on earnings refer to the calendar year whether or not some establishments reported other data on a financial year basis.

Cost of Fuel and Electricity

Figures for fuel refer to amounts actually used, (including fuel used in cars and trucks), not to purchases unless the quantities are the same. Values refer to the laid-down cost at the works, including freight, duty, etc.

Materials and Supplies Used

Figures represent quantities and laid-down cost values, at the works, of materials and supplies actually used during the year whether purchased from others or received as transfers from other plants of the reporting company. Amounts paid to other manufacturers for work done on materials owned by the reporting company are included. Returnable containers or any other items charged to capital account are not included. Fuels are not included. Goods bought from others or received as transfers from other plants or reporting companies for resale without further processing are not included. Maintenance and repair supplies not chargeable to capital account are included.

Factory Shipments

Factory shipments refer to shipments of goods made from own materials either in the reporting plant or by other manufacturers on the basis of a charge to the reporting plant for work done. All products and by-products shipped from the establishment are included whether for domestic use, export, or for government departments. Transfer shipments to sales outlets, distributing warehouses or to other manufacturing units of the reporting firm are included. Goods bought or received as transfers

and resold without further processing are not included. Values are computed on f.o.b. plant or plant warehouse basis, and do not include sales tax or excise duties. Values of containers not returnable are included. Amounts received in payment for work done on materials owned by others are included.

In a few industries such as shipbuilding, aircraft, etc., where work on principal products extend over a relatively long period, the value of production is recorded rather than the value of shipments. For those industries production is computed from the value of deliveries of complete units during the year plus the value of work done during the year on unfinished units less the value of work done in previous years on finished units delivered in the year under review.

Inventories

Values represent the book values of manufacturing inventories owned and held at the reporting plant. Figures include inventories held in warehouses or selling outlets which have been included with plant operations for purposes of reporting shipments.

Value added by Manufacturing

Figures are computed from value of shipments plus or minus changes in inventories of finished goods and goods in process less cost of materials, fuel and electricity. This figure is sometimes referred to as net production.¹

Standard Industrial Classification

The revised Standard Industrial Classification which has been introduced with the 1960 Census of Manufactures provides for a breakdown of the universe into 140 industries arranged in 20 major groups compared with 135 industries in 17 major groups in the old classification which was used in the compilations for the years 1949 to 1959 inclusive. It incorporates changes considered desirable on the basis of experience in using the earlier classification as well as those which take account of changes in the structure of Canadian industries associated with the rapid developments of the past decade. Full details are contained in the Standard Industrial Classification Manual, Catalogue No. 12-501, which is available from either the Queen's Printer or the Dominion Bureau of Statistics. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

Many industries remain unchanged in the new classification but in many instances there have been substantial changes in content because of the shifting of establishments from one industry to another or in re-grouping of establishments. Where

¹ To arrive at the National Accounts concept of "gross domestic product at factor cost", it would be necessary to subtract also the cost of office supplies used, advertising, insurance and other goods and services obtained from other businesses. Data on these inputs are not collected on the annual Census of Manufactures. Value added figures for "The primary industries and construction" are published in D.B.S. publication 61-202, *Survey of Production*.

changes have occurred the principal statistics for 1957, 1958 and 1959 have been re-compiled to provide data on a basis comparable with those for 1960.

Short Forms

Between 1949 and 1957, in an effort to ease the reporting burden for smaller firms, a short form was used asking for the total value of shipments only or, in a few cases where losses of detail were significant, for quantities and values of principal products. For purposes of publication, missing data were estimated on the basis of appropriate ratios. In general the cut-off point for these short forms was set at \$50,000 value of shipments. About 40% of the total number of establishments reported on the short form and accounted for less than 3 per cent of the total value of shipments.

In 1958, in order to establish a new base year, the small firms were asked to report all items of principal statistics together with some detail on materials and products.

For the 1959 Census, the short form was used again, but further steps were taken to ease the respondents' burden. First, the general limit for short forms was raised to \$100,000 value of shipments. In addition, a new intermediate form was developed. This form is a shortened version of the long form in that most of the general questions were pared down and the detailed lists of materials and products were limited to the more important items. The general limits for firms in this category were set at between \$100,000-\$500,000 value of shipments, but in the case of both the short and intermediate forms there were lower cut-offs for a number of industries in which the smaller firms accounted for a larger share of total shipments. On the other hand, limits were raised where this could be done without a significant loss of coverage. On most of the short forms for 1959, in addition to total value of shipments, data on principal products were requested. In a few industries, where loss of employment and earnings data were considered too large because of higher cut-offs, a question on total payroll was placed on the short form. This practice was followed again in 1960.

The intermediate and long forms provide complete data for the compilation of all elements of principal industry statistics and the details of materials and products. The one-page short form, although containing data on principal products and total value of shipments, does not request information on other elements of principal statistics such as value of inventories, materials, fuel and electricity and, in most cases, employment and salaries and wages, nor does it contain detailed data on volume and value of materials used. For purposes of compiling aggregates of principal statistics by industry and by geographic location, the missing data for each establishment were estimated for 1959 by using, in general, ratios based on the change in the value of shipments between 1958 and 1959. The proportion of the estimated data was generally less than 5 per cent of the total in each category of principal statistics.

WIRE AND WIRE PRODUCTS MANUFACTURERS

1960

Data presented in this report under the heading of Wire and Wire Products Manufacturers reflect implementation of the revised Standard Industrial Classification (SIC) which is being used by the Dominion Bureau of Statistics in its compilation of 1960 industry statistics—see item "Standard Industrial Classification" in the Explanatory Notes section of this report. For statistical purposes the industry titled Wire and Wire Products Manufacturers in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in drawing wire from rods and in manufacturing nails, spikes, staples, bolts, nuts, rivets, screws, washers, wire fencing, screening, wire cloth, barbed wire, tire chains, uninsulated wire rope and cable, kitchen wire goods and other wire products. Establishments primarily engaged in manufacturing insulated wire and cable are included in Industry No. 338—Manufacturers of Electric Wire and Cable.

In many instances, adoption of the new Standard Industrial Classification effected a radical shifting of manufacturing establishments as between industry groupings. Where this has occurred an attempt has been made to re-compile 1957, 1958 and 1959 data on the revised Standard Industrial Classification basis for the purposes of comparability. A significant element in the shift in the case of Wire and Wire Products Manufacturers was the transfer to this industry of establishments engaged in the manufacture of automatic screw machine products and fasteners such as bolts, nuts and rivets etc. which were previously classified in the Hardware, Tools and Cutlery Industry. The revised series of statistics in accordance with the new SIC is presented in Table 1.

There were 200 establishments classified to Wire and Wire Products Manufacturers in 1960; there being 2 in Newfoundland, 1 in Nova Scotia, 3 in New Brunswick, 49 in Quebec, 116 in Ontario, 2 in Manitoba, 7 in Alberta and 20 in British Columbia. Employees in this industry numbered 11,905; salaries and wages totalled \$53,924,419; materials used in the manufacturing processes cost \$110,395,449 and factory shipments were valued at \$200,112,321.

The principal products were iron and steel wire, including plain and galvanized wire, barbed wire, wire fencing, wire nails, tacks, staples, screws, wire cloth, wire rope, bale ties, bolts and nuts, horseshoe calks and other such commodities. Tables 5 to 10 give the total output in Canada, from all industries, of some of the more important of these commodities.

Note: Due to lack of inventory data, figures for value added by manufactures prior to 1954 were obtained by subtracting the cost of materials used, including fuel and electricity, from the total value of factory shipments. In 1954 and 1955 the "Value added" adjustment incorporated the increase or decrease to shipments values resulting from changes in the value of inventories over the period. For these two years, the adjustments that were made used only the change in finished product inventory owned by manufacturers. Beginning with 1956 the calculation of the "Value added" figure was further adjusted to take into account the "Goods in process" as well as the finished goods held at plant or plant warehouse.

TABLE 1. Principal Statistics: Wire and Wire Products Manufacturers, by Provinces, 1957 - 60

Basis: Standard Industrial Classification revised 1960

Year and province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at works	Cost at plant of materials used ¹	Value added by manufacture ²	Gross selling value of factory shipments
	number				dollars		
1957							
Newfoundland	4	317	958,482	82,320	2,249,497		4,258,199
Nova Scotia	3	98	310,915	26,743	626,130		1,146,017
New Brunswick	47	3,477	13,646,731	755,837	30,645,121		54,724,149
Quebec	103	7,707	31,510,128	1,682,905	58,736,645		115,049,491
Ontario	3	24	56,307	2,075	23,380		166,477
Manitoba	4	22	97,198	7,547	276,958		638,363
Alberta	17	552	2,187,726	101,212	5,109,258		9,803,650
British Columbia							
Canada	181	12,197	48,767,487	2,658,639	97,666,989		185,786,346
1958							
Newfoundland	4	255	1,016,511	67,364	2,653,101		4,400,228
Nova Scotia	3	100	326,108	28,244	826,882		1,367,266
New Brunswick	49	3,373	13,418,224	721,747	31,551,544		54,291,251
Quebec	106	7,108	30,071,115	1,590,012	56,129,398		108,988,670
Ontario	3	21	59,554	5,163	62,405		161,077
Manitoba	6	33	148,412	8,127	744,851		1,185,475
Alberta	19	515	2,073,761	131,047	4,553,573		8,757,209
British Columbia							
Canada	190	11,405	47,113,685	2,551,713	96,521,754		179,151,176
1959							
Newfoundland	4	215	946,063	76,658	2,283,348		3,556,161
Nova Scotia	3	92	337,085	31,542	737,803		1,182,442
New Brunswick	47	3,892	16,310,972	886,333	35,476,031		61,082,342
Quebec	108	7,910	35,144,045	1,836,101	69,265,762		126,408,250
Ontario	3	22	62,802	5,604	65,118		168,277
Manitoba	7	44	249,813	9,781	1,068,538		1,682,377
Alberta	19	570	2,306,549	151,040	4,850,290		9,126,862
British Columbia							
Canada	191	12,745	55,357,329	2,997,059	113,746,890		203,206,711
1960							
Newfoundland	3	158	770,723	54,355	1,588,722	850,386	2,549,193
Nova Scotia	3	81	308,228	24,438	738,227	337,533	1,204,746
New Brunswick	49	3,721	16,146,857	818,640	32,685,939	23,521,247	57,259,779
Quebec	116	7,308	33,677,236	1,713,838	69,691,049	57,410,090	127,618,601
Ontario	9	64	319,589	12,128	1,042,542	559,115	1,612,058
Manitoba	20	573	2,701,786	138,276	4,648,970	5,058,556	9,867,944
Alberta							
British Columbia							
Canada	200	11,905	53,924,419	2,761,675	110,395,449	87,736,927	200,112,321

¹ See note to text.² The changeover to the new classification has delayed the recompilation of "Value added" figures for years prior to 1960 and same will not be available until the next issue of this report.

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. Inventories:¹ Wire and Wire Products Manufacturers, 1960

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
Opening:				
Quebec	7,054,403	527,444	8,650,178	16,232,025
Ontario	12,760,261	1,769,332	13,240,230	27,769,823
British Columbia	1,682,795	229,875	1,025,156	2,937,826
Other provinces	404,822	143,361	882,569	1,430,752
Canada	21,902,281	2,670,012	23,798,133	48,370,426
Closing:				
Quebec	6,640,481	466,188	8,477,481	15,584,150
Ontario	11,081,735	2,174,521	14,031,417	27,287,673
British Columbia	1,485,937	193,780	1,039,109	2,718,826
Other provinces	351,819	96,970	770,409	1,219,198
Canada	19,559,972	2,931,459	24,318,416	46,809,847

¹ Book value of all manufacturing inventories owned and held at plant and plant warehouses.

TABLE 3. Factory Shipments: Wire and Wire Products Manufacturers, 1960

Product	Quantity made	Quantity shipped	Value of factory shipments
			\$
Section "A" — Wires			
(Total production, whether for sale or for further manufacture)			
Iron and steel wires:			
Plain wire (including welding wire but not welding rods)	net ton		
Galvanized wire	"		
Other coated wire	"		
Barbed wire	"		
Cold-rolled flat wire of all sizes, qualities and finishes, including nut steel	"		
Wire bale ties	"		
Section "B" — Nails, Staples and Tacks			
Wire nails, iron and steel (all wire nails, including shoe rivets and other small sizes of wire nails)	keg		
Wire staples, iron and steel, of all kinds	"		
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.		
Miscellaneous, including thumb tacks, upholstery nails, brass and copper nails, cut nails, aluminum nails and staples for paper stitching			
Section "C" — Wire Fencing and Wire Netting			
Woven wire farm fence, steel	ton		
Woven wire lawn fence, steel	"		
Woven wire chain link fabric, steel (including tonnage for industrial fences)	"		
Steel fence posts	"		
Gates	No.		
Snow fence	"		
Welded or woven wire mesh, steel, for concrete reinforcement, or purposes other than fencing	ton		
Wire cloth:			
Fourdrinier wire cloth	"		
Other wire cloth, including insect wire screening-steel, including stainless steel	"		
Non-Ferrous metal	"		
Miscellaneous fencing and netting	"		

See note at end of table.

TABLE 3. Factory Shipments: Wire and Wire Products Manufacturers, 1960 - Concluded

Product	Quantity made	Quantity shipped	Value of factory shipments
			\$
Section "D" - Wire Goods			
Steel wire rope or cable..... ton	..	24,216	16,852,453
Twisted strand wire (including galvanized guy wire, wire clothes-lines, twisted bed strand)..... "	..	6,263	2,239,549
Steel wire upholstering springs and constructions	11,853,772
Other steel wire springs (except bed springs)	4,143,224
Miscellaneous wire goods (including wire lacing, hairpins, tire braids, wire paper clips, wire guards, welding rods, etc.)	20,739,896
Section "E" - Fasteners and Miscellaneous			
Bolts and nuts, horseshoe calks, screws, perforated metals, etc.	53,062,860
Amount received for repair and custom work	-	1,131,844
Total	200,112,321

Note: Data given in the above table are for Wire and Wire Products Manufacturers, which includes only the concerns engaged chiefly in drawing iron and steel wire or in fabricating products from wire. Figures for the individual items do not necessarily represent the total output for Canada as there may also have been an output by concerns classified to other industrial groups. See Tables 5-10 for total Factory Shipments in Canada of certain specified items.

TABLE 4. Materials¹ Used: Wire and Wire Products Manufacturers, 1960

Material	Companies' own-make materials transferred from other departments or plants		Purchased materials and supplies	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Iron and steel:				
Bars..... ton	25,361	3,095,768	14,714	2,129,978
Wire rods..... "	203,099	27,388,329	118,099	14,691,130
Wire:				
Plain..... "	47,026	6,625,337	61,232	14,244,945
Galvanized..... "	9,304	1,746,725	15,673	4,037,612
Sheets..... "	69	9,563	5,436	1,034,365
Strips..... "	967	175,402	5,441	994,352
Pipe and tubing..... "	-	803,378	-	302,336
Nail and tack plate..... lb.	1,537,337	108,822	1,412,275	125,686
Other iron and steel..... "	-	7,277	-	1,248,190
Stainless Steel:				
Wire..... lb.	-	-	1,128,407	1,080,301
Other forms..... "	-	-	820,747	448,050
Non-ferrous metals:				
Aluminum:				
Castings..... "	-	-	38,143	26,671
Sheet..... "	-	-	37,395	19,078
Other forms..... "	-	-	1,681,107	733,491
Brass and bronze..... "	-	-	9,272,902	5,605,374
Copper:				
Sheet..... "	-	-	33,024	17,830
Wire..... "	-	-	198,635	77,818
Other forms..... "	-	-	162,764	70,139
Lead..... "	-	-	759,180	82,718
Tin..... "	-	-	22,559	23,256
Zinc..... "	-	-	7,937,397	1,052,666
All other non-ferrous metals..... "	-	-	-	234,143
Acid, muriatic..... lb.	-	-	2,292,366	65,273
Acid, sulphuric, 100%..... "	879,546	20,095	16,384,082	228,049
Shipping containers and packing materials.....	-	-	-	2,670,747
All other materials ²	-	1,997,494	-	17,173,061
Total own-make materials	-	41,978,190	-	-
Total purchased materials	-	-	-	68,417,259
Total all materials	-	-	-	110,395,449

¹ See note to text.

² No detailed information on materials used was collected from firms generally reporting value of shipments of less than \$300,000. The total value of materials used by these firms was \$4,690,754 and this amount is included in "all other materials".

TABLE 5. Total Production and Factory Shipments of Steel Wire, 1956-60 (from All Industries)

Year		Plain wire	Galvanized wire	Barbed wire	Wire other coated
1956					
Quantity made	ton	366,486	73,154	6,671	2,121
Quantity shipped	"	144,804	38,929	6,849	2,154
Value of shipments	\$	25,302,207	8,717,868	1,168,052	673,724
1957					
Quantity made	ton	290,881	53,986	4,211	1,730
Quantity shipped	"	127,029	28,935	4,443	1,958
Value of shipments	\$	23,541,071	7,381,381	806,212	614,170
1958					
Quantity made	ton	305,733	56,328	4,649	2,397
Quantity shipped	"	114,843	28,210	4,588	2,148
Value of shipments	\$	21,741,095	6,898,132	854,878	642,017
1959					
Quantity made	ton	360,874	62,269	3,755	4,450
Quantity shipped	"	146,271	31,695	3,393	4,336
Value of shipments	\$	27,557,523	7,587,034	632,162	1,278,729
1960					
Quantity made	ton	301,140	52,706	2,916	4,606
Quantity shipped	"	150,371	39,960	2,971	4,236
Value of shipments	\$	29,354,638	9,239,235	550,000	1,334,581

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

TABLE 6. Factory Shipments of Steel Wire Fencing, 1956-60 (from All Industries)

Year	Quantity shipped net ton	Value of shipments \$
1956		
Farm fence	12,968	2,631,760
Lawn fence	1,457	400,447
Chain link fabric	5,877	1,621,596
Totals	20,302	4,653,803
1957		
Farm fence	11,477	2,439,553
Lawn fence	1,384	381,089
Chain link fabric	6,084	1,704,089
Totals	18,945	4,524,731
1958		
Farm fence	13,390	2,933,424
Lawn fence	1,546	404,761
Chain link fabric	7,135	1,863,531
Totals	22,071	5,201,716
1959		
Farm fence	15,522	3,248,376
Lawn fence	1,327	370,907
Chain link fabric	7,458	1,953,343
Totals	24,307	5,572,626
1960		
Farm fence	12,353	2,767,984
Lawn fence	1,392	414,934
Chain link fabric	7,639	1,889,030
Totals	21,384	5,071,948

TABLE 7. Total Production and Factory Shipments of Nails, Tacks and Staples, 1956-60
(from All Industries)

Year	Iron and steel wire staples	Iron and steel wire nails and spikes	Wire and cut tacks of all kinds
	kegs		lbs.
1956			
Quantity made	27,929	1,851,607	2,827,621
Quantity shipped	27,315	1,723,217	2,701,429
Value of shipments	\$ 283,315	16,547,899	896,568
1957			
Quantity made	18,988	1,382,635	2,475,193
Quantity shipped	21,719	1,397,001	2,431,531
Value of shipments	\$ 251,554	13,941,686	883,912
1958			
Quantity made	27,219	1,659,325	2,219,474
Quantity shipped	25,861	1,658,129	2,356,440
Value of shipments	\$ 300,423	16,364,801	880,264
1959			
Quantity made	26,434	1,527,192	2,264,247
Quantity shipped	27,042	1,481,101	2,042,335
Value of shipments	\$ 318,592	15,230,229	742,686
1960			
Quantity made	28,629	1,171,854	1,946,156
Quantity shipped	24,670	1,238,072	2,102,035
Value of shipments	\$ 298,951	12,912,040	690,346

Note: 1 keg = 100 pounds.

TABLE 8. Factory Shipments of Steel Wire Rope and Cable, 1951-60
(from All Industries)

Year	Wire rope and cable		Twisted strand wire		Total value of shipments
	Quantity shipped	Value of shipments	Quantity shipped	Value of shipments	
	tons	\$	tons	dollars	
1951	24,094	15,036,888	8,189	2,409,506	17,446,394
1952	23,591	14,706,763	9,013	2,815,099	17,521,862
1953	18,694	13,284,965	8,911	2,959,208	16,244,173
1954	19,490	12,485,589	7,938	2,665,951	15,151,540
1955	22,629	14,193,471	8,018	2,684,300	16,877,771
1956	28,356	17,854,473	10,582	3,952,831	21,807,304
1957	27,172	18,439,274	7,745	2,758,725	21,197,999
1958	22,029	15,789,580	7,536	2,828,853	18,618,433
1959	23,853	16,986,582	8,511	3,084,852	20,071,434
1960	24,216	16,852,453	9,517	3,427,490	20,279,943

TABLE 9. Production and Factory Shipments of Steel Bale Ties and Shipments of Welded Wire Mesh, 1956-60 (from All Industries)

Year	Steel wire bale ties			Welded wire mesh	
	Quantity made	Quantity shipped	Value of shipments	Quantity shipped	Value of shipments
	tons		\$	tons	\$
1956	4,485	4,435	1,047,953	27,386	5,409,661
1957	3,468	3,466	920,476	24,060	4,880,149
1958	3,430	3,557	989,382	32,840	6,899,606
1959	3,255	3,286	889,408	44,979	9,423,594
1960	2,429	2,497	629,557	39,676	8,126,341

TABLE 10. Factory Shipments of Welding Rods,¹ 1956-60 (from All Industries)

Year	Quantity	Value of factory shipments
	tons	\$
1956.....	20,230	6,823,000
1957.....	20,199	7,675,000
1958.....	18,474	7,436,000
1959.....	21,777	8,460,000
1960.....	19,490	7,342,000

¹ Includes only ferrous type gas and electric welding rod.TABLE 11. Principal Statistics classified according to Type of Ownership
Wire and Wire Products Manufacturers, 1957 and 1960

Type	Estab-lish-ments	Em-ployees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	number			dollars	
1957					
Individual ownership.....	34	154	366,124	351,001	1,025,570
Partnerships.....	23	291	885,237	3,916,706	5,700,922
Incorporated companies.....	124	11,752	47,516,126	93,399,282	179,059,854
Totals.....	181	12,197	48,767,487	97,666,989	185,786,346
1960					
Individual ownership.....	37	215	551,094	729,907	1,730,958
Partnerships.....	13	185	742,624	1,871,292	3,260,772
Incorporated companies.....	150	11,505	52,630,701	107,794,250	195,120,591
Totals.....	200	11,905	53,924,419	110,395,449	200,112,321

TABLE 12. Principal Statistics grouped according to Selling Value of Factory Shipments:
Wire and Wire Products Manufacturers, 1957 and 1960

Establishments reporting factory shipments	Estab-lish-ments	Em-ployees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	number			dollars	
1957					
Under \$10,000.....	6	10	15,125	7,450	28,630
\$ 10,000 to \$ 24,999.....	24	74	141,630	122,244	396,024
25,000 " 49,999.....	19	113	243,980	197,464	642,335
50,000 " 99,999.....	25	254	691,621	796,273	1,868,346
100,000 " 199,999.....	24	410	1,445,530	1,335,796	3,427,438
200,000 " 499,999.....	30	784	2,629,338	4,391,038	9,346,276
500,000 " 999,999.....	15	943	2,820,635	5,696,534	10,938,409
1,000,000 " 4,999,999.....	28	4,997	19,736,328	36,590,429	76,764,293
5,000,000 and over.....	10	4,612	21,043,300	48,529,761	82,374,595
Totals.....	181	12,197	48,767,487	97,666,989	185,786,346
1960					
Under \$10,000.....	12	22	36,202	29,755	75,511
\$ 10,000 to \$ 24,999.....	15	36	90,499	59,968	240,667
25,000 " 49,999.....	25	136	356,677	278,913	895,889
50,000 " 99,999.....	29	247	741,704	955,501	2,179,324
100,000 " 199,999.....	24	401	1,368,349	1,603,938	3,612,003
200,000 " 499,999.....	42	1,163	4,363,264	6,108,941	13,488,846
500,000 " 999,999.....	13	748	2,734,531	4,801,824	9,282,651
1,000,000 " 4,999,999.....	28	3,637	16,857,719	30,868,251	62,730,825
5,000,000 and over.....	12	5,515	27,375,474	65,688,358	107,606,605
Totals.....	200	11,905	53,924,419	110,395,449	200,112,321

TABLE 13. Employees and their Earnings: Wire and Wire Products Manufacturers, 1959 and 1960

Province	Employees					Earnings			
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total	
	Male	Female	Male	Female					
	number					dollars			
1959									
Newfoundland	}	23	4	188	—	215	135,679	810,384	946,063
Nova Scotia		17	2	73	—	92	85,158	251,927	337,085
New Brunswick		610	276	2,789	217	3,892	4,572,052	11,738,920	16,310,972
Quebec		1,361	604	5,297	648	7,910	10,333,579	24,810,466	35,144,049
Ontario		6	—	16	—	22	25,467	37,335	62,802
Manitoba		10	2	32	—	44	115,844	133,969	249,813
Alberta		101	35	388	46	570	689,034	1,617,515	2,306,549
British Columbia									
Canada		2,128	923	8,783	911	12,745	15,956,813	39,400,516	55,357,329
1960									
Newfoundland	}	19	2	137	—	158	113,763	656,960	770,723
Nova Scotia		16	2	63	—	81	83,751	224,477	308,228
New Brunswick		591	277	2,643	210	3,721	4,659,002	11,487,855	16,146,857
Quebec		1,329	537	4,838	604	7,308	10,067,777	23,609,459	33,677,236
Ontario									
Manitoba	}	17	3	44	—	64	148,159	171,430	319,589
Alberta		105	45	381	42	573	941,681	1,760,105	2,701,786
British Columbia									
Canada		2,077	866	8,106	856	11,905	16,014,133	37,910,286	53,924,419

TABLE 14. Production Workers by Months: Wire and Wire Products Manufacturers, 1960

Month	Establishments reporting monthly detail ¹	
	Male	Female
January	7,695	801
February	7,662	794
March	7,620	779
April	7,572	761
May	7,587	754
June	7,457	747
July	6,887	642
August	7,135	656
September	7,137	746
October	7,056	737
November	6,882	723
December	6,690	704
Average for establishments reporting monthly detail	7,282	737
Average estimated for small establishments ²	809	118
Average for all establishments	8,091	855

¹ The number of production workers, by months, was collected only for establishments generally reporting value of shipments of \$300,000 and over.

² For establishments generally reporting value of shipments of less than \$300,000, no data on number of workers were collected. Average was estimated by using change in value of shipments to arrive at value of payroll which was then used in conjunction with estimated average earnings to arrive at number of workers.

TABLE 15. Fuel and Electricity Used: Wire and Wire Products Manufacturers, 1960

Kind	Quantity	Cost at plant
		\$
1. Establishments reporting commodity detail: ¹		
Bituminous coal:		
(a) From Canadian mines	ton 5,166	59,162
(b) Imported	" 7,774	97,708
Anthracite coal	" 3,452	41,934
Coke	" 90	1,284
Gasoline (including gasoline used in cars and trucks)	Imp. gal. 275,788	101,555
Fuel oil including kerosene or coal oil	" 3,864,207	419,729
Wood	cord 302	2,567
Gas (a) Liquefied petroleum gases	Imp. gal. 362,405	80,038
(b) Other manufactured gas	M cu. ft. 133,677	55,797
(c) Natural gas	" 836,389	529,929
Other fuel	—	665
Electricity purchased	kwh. 118,500,158	1,155,325
Steam purchased	45,301
2. Estimate for establishments for which no data were collected: ²		
Cost of fuel and electricity	170,681
3. All establishments:		
Total cost of fuel and electricity	2,761,675

¹ Establishments generally reporting value of shipments of \$300,000 and over.² Establishments generally reporting value of shipments of less than \$300,000.

TABLE 16. Imports of Steel Wire and Specified Wire Products, 1959 and 1960

Item	1959		1960	
	Quantity	Value	Quantity	Value
		\$		\$
Wire				
Welded rods and welded wires of all kinds	cwt. 141,690	4,417,534	117,220	3,968,429
Wire of iron or steel; barbed fencing	" 162,602	1,091,872	144,037	1,036,334
Wire of iron and steel, drawn flat or cold-rolled flat after drawing, coated or not, n.o.p., not more than .25 inch in width and less than .1857 inch in thickness	" 5,733	169,043	6,103	177,210
Wire of iron or steel, coated with zinc or spelter, (galv.)	" 163,362	1,598,921	139,227	1,251,352
Wire of iron or steel, single or several, coated, covered with any material, including cable so covered n.o.p.	" 11,186	363,599	10,995	331,904
Wire rope for rigging of ships and vessels	" 684	12,462	156	5,668
Wire of iron or steel, twisted, braided or stranded, including wire rope or cable, coated or not, n.o.p.	" 103,497	2,348,129	100,910	2,062,143
Wire of steel, spring, not less than .40 per cent by weight of carbon, .128, .116, .104 and .092 inch in diameter with tolerance not to exceed .003 inch, for the manufacture of mattresses, cushions or upholstery	" 4,915	42,547	8,461	75,606
Wire of steel, flat or woven flat, including steel strip in the coil, coated or not, .064 inch in thickness or thinner, with tolerance not to exceed .002 inch, for the manufacture of corset clasps, steels, wires and dress stays	" 2,809	134,292	2,002	94,513
Wire of steel, valued at not less than 2½ cents per pound, for the manufacture of wire rope	" 412,738	4,748,251	410,998	4,800,742

TABLE 16. Imports of Steel Wire and Specified Wire Products, 1959 and 1960 - Concluded

Item	1959		1960	
	Quantity	Value	Quantity	Value
		\$		\$
Wire - Concluded				
Wire of steel, single, not covered, in coils, for trolling in bona fide deep sea or inland commercial fishing operations. n.o.p.	-	347,452	-	386,170
Wire, twisted, braided or stranded, including wire rope or cable, coated or not, used or second hand cwt.	14,233	52,827	14,275	55,851
Wire of steel, and iron n.o.p. "	195,092	2,602,429	154,933	2,238,228
Wire or welded wire fencing of iron or steel, from wire not more than .144 inch and not less than .080 inch in diameter, with tolerance not to exceed .004 inch; wire fencing of iron or steel, coated or not, n.o.p.	-	223,397	-	152,581
Woven or welded wire fencing of iron or steel, n.o.p.	-	143,376	-	81,220
Woven netting of iron or steel, coated, for use on fur farms	-	57,050	-	46,739
Wire screens, doors and windows	-	163,695	-	113,639
Cellulose acetate film reinforced with wire mesh	-	38,189	-	25,782
Wire cloth or screen, of iron or steel	-	575,144	-	501,338
Wire netting n.o.p.	-	538,368	-	374,017
Wire rope for use in drilling for water, natural gas and oil, and in prospecting for minerals cwt.	2,408	36,824	6,373	92,040
Welded wire fabric, for concrete or other reinforcing "	48,962	371,780	35,969	258,293
Wire rope for use in logging "	22,885	319,843	30,925	361,671
Nails, spikes and tacks				
Cut nails, of iron or steel, coated or not cwt.	4,519	157,141	2,840	94,649
Tacks of all kinds, n.o.p. lb.	126,718	39,361	83,682	31,940
Wire roofing nails of all sizes and wire nails one inch or more in length, of iron or steel, coated or not cwt.	388,513	2,889,031	256,857	1,934,998
Wire nails less than one inch in length, and nails and brads, n.o.p., of iron or steel, coated or not lb.	394,616	113,681	339,229	109,461

TABLE 17. Exports of Steel Wire and Specified Wire Products, 1959 and 1960

Item	1959		1960	
	Quantity	Value	Quantity	Value
		\$		\$
Wire, barbed of iron or steel cwt.	245	2,110	1,459	14,698
Wire cable and wire rope of iron and steel	-	357,573	-	228,822
Wire screen of iron	-	378,456	-	255,038
Woven wire fencing of iron and steel	-	17,822	-	153,609
Wire of iron and steel, n.o.p.	-	3,108,530	-	1,879,130
Nails, wire cwt.	20,821	319,891	20,765	247,822
Tacks of all kinds, of iron and steel "	3,237	68,506	3,732	81,566
Nails and brads of iron and steel, n.o.p. "	20,766	246,358	535	27,210

Directory of Firms: Wire and Wire Products Manufacturers, 1960

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 manufacture wire of iron or steel or wire goods as their chief products. Producers of copper wire and cable for electrical purposes have been classified elsewhere.

Name	Address
Newfoundland:	
Daw's Nail and Hardware Ltd.	Bay Roberts
United Nail & Foundry Co. Ltd.	Hamilton Ave., St. John's
Nova Scotia:	
Dominion Steel & Coal Corp. Ltd., (Sydney works)	Sydney
New Brunswick:	
New Brunswick Wire Fence Co. Ltd.	402 Main St., Moncton
Dominion Steel and Coal Corp. Ltd. (Pender works)	320 Charlotte St., Saint John
Grand Falls Industries Ltd.	Grand Falls
Quebec:	
Air Reduction Canada Ltd.	905 Hodge Ave., Montreal 9
Anglo-Canadian Wire Rope Co. Ltd.	125 Rockfield Ave., Lachine
Argo Machine Tools Inc.	5605 St. André St., Montreal 10
Artistic Wire Works Limited	8152 Drolet St., Montreal
Beaver Wire Mfg. Co.	2211 rue Champlain, Montreal 24
Bélanger, J.A.	Rivière Bleue
Canadian Blank Book Company	8530 Esplanade, Montreal 14
Canadian Staples Limited	6705 Upper Lachine Rd., Montreal 28
Champion Tire Chain Co. Ltd.	2457 Des Carrières St., Montreal 24
Christie, George, Canada, Limited	2106 Bellefeuille St., Three Rivers
City Wire & Iron Products Co.	1584 Laurier Ave., E., Montreal
Cogan Wire and Metal Products Limited	2245 de la Salle Ave., Montreal 4
Dominion Steel & Coal Corporation Limited	5870 St. Patrick St., Montreal
Dominion Wire Rope Limited	175 St. Joseph St., Lachine
Eddy Metal Products Reg'd.	2331 Provencal Lane, Montreal 24
Ferro Products Co.	10049 London Ave., Montreal N.
Foster Springs Limited	200 St. Antoine St. N., Granby
Heiplex Springs Ltd.	8612-10th Ave. Ville St. Michel, Montreal 38
Industrial Fasteners Ltd.	200 Ouellette St., Marieville
Industrial Screw Machine Works Ltd.	5445 Pare St., Montreal 9
Johnson Wire Works Ltd., The	530 de Courcelles St., Montreal 30
Jones Lamp Frame Co.	5549-11th Ave., Rosemount, Montreal
L'Air Liquide	5030 Rouen St., Montreal
London Zig Zag Spring Ltd.	2455 Desautels, Montreal 5
Laramée Wire Works	956 Maisonneuve, Montreal
Laurentian Wire Products Reg'd.	9221 St. Lawrence Blvd., Montreal
Machineries Pont Rouge Ltée.	Pont Rouge
Manhattan Wire Works Co. Ltd.	2331 Provencal Lane, Montreal 24
Maxwell Wire Products Ltd.	5000 Brock St., Montreal
Mercury Wire & Nail Co. Ltd.	3000 Rue St. Prosper, St. Hyacinthe
Montfield Metal Products Ltd.	970 St. Georges St., Montreal
New York Wire Works Ltd.	5555 Notre Dame St. E., Montreal
No-Sag Spring Co. Ltd.	297 Taschereau Blvd., Montreal
Nucleonic-Electric Equipment & Development Company	5701 Côte St. Paul, Montreal
Ontario Wire Works Mfg. Limited	4166 Parthenais St., Montreal 24
Pennsylvania Wire Products	1361 Notre Dame St. E., Montreal 24
Precision Automatic Machines Screws Prods. Reg'd.	2291 Rue Louis-Veuillot, Montreal 5
Sido Limitée	555 Blvd. Boivin, Granby
Sivaco Wire and Nail Co.	Marieville
Steel Company of Canada Ltd.	2320 Notre Dame St. W., Montreal
Steel Company of Canada Ltd.	75 St. Joseph St., Lachine
Steel Heddle Co. Of Canada, Limited	310 St. Hubert St., Granby
Superior Wire & Paper Products Ltd.	2625 Duchesne, St. Laurent
Triplex Engineering Co. Ltd.	9810 St. Urbain St., Montreal
United Shoe Machinery Co. of Canada, Ltd.	2610 Bennett Ave., Montreal 4
Wallace Barnes, The, Co. Limited	119 Hymus Blvd., Pointe Claire
Webster & Horsfall (Canada) Ltd.	3350 Bellefeuille St., Three Rivers
Whitehouse Fastenings Limited	970 St. George St., Montreal
World Wide Staple Co. Inc.,	9515 Park Ave., Montreal 11

Directory of Firms: Wire and Wire Products Manufacturers, 1960 — Continued

Name	Address
Ontario:	
Accumatie Mfg. Co. Ltd.	302 Bridgeland Ave., Toronto 19
Acorn Manufacturing Ltd.	15 Crooks St., Fort Erie
Andrews Wire Works of Canada Ltd.	Watford
Armour Art Craft	298A King St. E., Toronto 2
Artcraft Shoppe	155 George St., Toronto 2
Atlas Nail & Wire Company	1 Adam St., Kitchener
Argos Mfg. Co.	Stoney Creek
Automatic Screw Machine Products Ltd.	1171 Queen St. W., Toronto 3
Beaverton Specialties Limited	Beaverton
Bennett Wire Products Co.	349 Huron St., Toronto 5
Bohne Industries Ltd.	1149-53 Queen St. W., Toronto 3
Bostitch (Toronto) Ltd.	55 Judson St., Mimico, Toronto 14
Breen Wire Products Ltd.	13 Blackburn St., Toronto 8
Bull Dog Lacer Co. of Canada Ltd.	12 Ferguson Ave. N., Hamilton
Burke - Thumm Ltd.	14 Breadalbane St., Toronto 5
Cal - Dak (Canada) Ltd.	2555 Hensall St., Cooksville
Canada Wire & Cable Co. Ltd.	37 Union St., Smiths Falls
Canadian Rockwell Co.	46 North Line Rd., Toronto 16
Canadian Spring Co.	2784 Dundas St. W., Toronto 9
Canadian Wire Specialties Co.	3370 Dufferin St., Toronto 19
Capital Wire Cloth and Mfg. Co. Ltd.	Hinton Ave., Ottawa 3
Central Electric Wire Ltd.	1 North St., Perth
City Wire Works Co.	1082 Queen St. W., Toronto 3
Collison - Goll Ltd.	971 Weston Rd., Toronto 9
Diamond Hard Company	99A Coleman Ave., Toronto
Doherty Industries Ltd.	371 Ryding Ave., Toronto
Dominion Chain Company Limited	800 Bender Ave., Niagara Falls
Dominion Fasteners Limited	686 Parkdale Avenue N., Hamilton
Dominion Screw Co. Ltd.	395 Weston Rd. S., Toronto 9
Dominion Steel & Coal Corp. Limited	1020 Martin Grove Road, Etobicoke
Dominion Tack & Nail Company Limited	431 Dundas St., Galt
Domora Jobbers	105 Station St., Belleville
Donald Ropes & Wire Cloth Limited	180 King William St., Hamilton
East York Metals	6 Halsey Ave., Toronto 16
Federal Bolt & Nut Corp.	1171 Queen St. W., Toronto
Ferrier Wire Goods Company	22 Mulock Ave., Toronto 9
Fitzgerald-McAvoy Wire Goods	21 Haas Rd., Rexdale
Florists' Wire Works	364 Broadview Ave., Toronto 8
Frost Steel & Wire Company Limited	250 Lottridge St. N., Hamilton
G.W. Wire Specialties	428 Cannon St. East, Hamilton
Garden City Wire Works Co.	66 Pelham Rd., St. Catharines
General Spring Products Ltd.	60 Ottawa St. S., Kitchener
Gerrard Company Ltd.	140 Hunter St. E., Hamilton
Gibb Manufacturing Co. Ltd.	1 Seneca Ave., Port Credit
Globe Spring and Cushion Co. Limited	347 Sorauren Ave., Toronto 3
Greening, B., Wire Co. Ltd.	Orangeville & Midland Plants
Griplock of Canada, Limited	76 Howden Rd., Scarborough
H. & T. Products Limited	127 Manville Rd., Scarboro
Haca Supplies Ltd.	30 Market St., Hamilton
Hall Industries	George St., St. Mary's
Hamilton Wire Designs	R.R. 3, Guelph
Hamilton Wire Products Company Ltd.	304 Gage Ave. N., Hamilton
Hi-Beck Precision Spring Co.	741 Woodward Ave., Hamilton
Hollup Corporation Limited	719 King St. W., Toronto 2B
Hoskins Alloys of Canada Ltd.	45 Racine Rd., Rexdale P.O.
Hyde Spring & Wire (Canada) Ltd.	366 Grand River Ave., Brantford
Imperial Wire Specialty	217 Lambton Ave., Toronto 4
Isard-Lefevre Mfg. Co. Ltd.	45 Dickens St., Toronto 8
Kelson Spring Products	108 Brandon Ave., Toronto 4
Kendan Mfg. Ltd.	2918 Walker Rd., Windsor
Kitchener Spring Co. Limited	34 Bridgeport Rd., Waterloo
Largo Manufacturing Co.	154 King St. E., Toronto 2
Lee, Albert E., Screw Machine Products	11 Darrell Ave., Toronto 13
Lewis Screw & Fittings Ltd.	161 Samuelson St., Galt
Linread Canada Ltd.	24 Hayes Ave., Guelph
Lundy Steel Products, Limited	Dunnville
Marcus Spring Co., Ltd.	71 Ossington Ave., Toronto 3
Marshall Specialty Co. Ltd.	390 Alliance Ave., Toronto
May, Bruce, Manufacturing	39 Dussek St., Belleville
Mercury Welding Machine Shop	177 King St. W., Oshawa
Mills Steel Products Ltd.	663 Woodward Ave., Hamilton

Directory of Firms: Wire and Wire Products Manufacturers, 1960 - Continued

Name	Address
Ontario - Concluded:	
Morrow Screw & Nut Company Limited	Thames St. N., Ingersoll
National Socket Screw Mfg. Co. Ltd.	249 Central Ave., Beamsville
National-Standard Company Canada Ltd.	Dawson & Campbell Rds.
Neat Clip Manufacturers	416 Richmond Rd., Ottawa 3
Niagara Wire Weaving Co. Ltd.	Robinson St., Niagara Falls
No-Sag Spring Company Limited	Industrial Rd., London
Omark Industries Limited	165 York Rd., Guelph
Otamarc Manufactures Ltd.	71 Ossington Ave., Toronto 3
Oxford Precision Products Ltd.	1050 Dundas St. East., Woodstock
Parmenter & Bulloch Mfg. Co. Ltd.	Clarence St., Gananoque
Perrin Industries Limited	468 Wellington St. West, Toronto
Premier Spring & Mfg. Co.	Ayr
Prestole Corp. of Canada	20 Racine Road, Rexdale
Power Fastener Co. Ltd.	284 St. Helens Ave., Toronto 4
Pritchard, E.W., and Sons	99 Torrens Ave., Toronto 6
Rice Wire Products	Rear 834 Yonge St., Toronto 2
Robertson, P.L. Mfg. Co. Ltd.	Bronte St., Milton
Servos & Bateman	46 Kelly St., Hamilton
Small, Y.W., Parts Ltd.	434 Steeles Ave. W., Willowdale
Steel Co. of Canada Ltd.	Windermere Ave., Swansea
Steel Co. of Canada Ltd.	West Colborne St., Brantford
Steel Company of Canada Limited	834 Wellington St. N., Hamilton
Steel Company of Canada Limited	Strathearne Ave., Hamilton
Steele Brothers	49 Johnston St., Guelph
Steele's Wire Springs Limited	280 Speedvale Ave., Guelph
Stockton Wire Products Ltd.	Newport St., Brantford
Swan Piper and Co., Limited	426 Cannon St. E., Hamilton
Tamco Limited	La Salle, Ontario
Thomson (Canada) Rivet Co. Ltd.	4th St. & Victoria, Gananoque
Toronto Screw Machine Prod. Ltd.	124 Manville Rd., Scarborough
Toronto Wire Works Co.	2108 Dundas St. W., Toronto 3
Tyler, W.S., Co. Of Canada, Ltd.	Kensington Ave., St. Catharines
Universal Wire & Iron Works	2991 Bathurst St., Toronto 12
Vanstone, E.G. & Son Ltd.	126 Atlantic Ave., Toronto 3
Wallace Barnes Company Limited	274 Sherman Ave. N., Hamilton
Wallbank, P.J. Mfg. Co.	Plattsville
Warren Automatics	280 Wescott St., Peterborough
Wiens Screw Products Ltd.	Burlington
Wild, J.W. Co. Ltd.	24 Taber Rd., Rexdale
Willow Mfg. Co. Ltd.	21 Sable St., Toronto 15
Wiresmith Manufacturing Co.	196 Adelaide St. West, Toronto
Wittick, J.R. & Co. Ltd.	128 Vine St., Toronto
Yonge Hanger & Wire Products Ltd.	164 Mulock Ave., Toronto 9
Young, G.R. Screw Machine Prod. Ltd.	26 Six Points Road, Toronto 18
Young Spring & Wire Corp. of Canada, Ltd.	1441 McDougall Ave., Windsor
Manitoba:	
Nolin-Hunter Mfg. Co.	376 Bertrand St., St. Boniface
Wire & Metal Specialty Co.,	1960 Main St., Winnipeg 17
Alberta:	
Alberta Wire Works	6907 - 104th St., Edmonton
Anchor Wire Products Limited	66th. Ave. & Centre St. South, Calgary
Atlas Ty and Supply Co. Ltd.	727 - 10th Ave. S.W., Calgary
Gates Forming Accessories Ltd.,	214 - 50th Ave. S.E., Calgary
Irving Wire Products Ltd.	86th Ave. & Centre St. S., Calgary
Soldan Fence Products	9935 - 75th Avenue, Edmonton
Soroy Upholstery Springs	9934 - 70th Ave., Edmonton
British Columbia:	
Advance Wire Products Ltd.	1668 West 2nd Ave., Vancouver 9
B.C. Anchor Fence Co. Ltd.	1031 Pender St. W., Vancouver 1
B.C. Diesel Service Engineers Ltd.	Granville Island, Vancouver 9

Directory of Firms: Wire and Wire Products Manufacturers, 1960 — Concluded

Name	Address
British Columbia—Concluded:	
B.C. Wire & Steel Works Ltd.	1328—73rd Avenue W., Vancouver 14
B.R.C. Weldmesh (1960) Limited	3157 Grandview Highway, Vancouver 12
British Ropes Canadian Factory Limited	3185 Grandview Highway, Vancouver 12
Butler, E.A., Mfg. & Eng. Limited	32,778 Trans Canada H'W'Y., Abbotsford
Capital Wire Cloth Western Limited	Annacis Island, New Westminster
Chamberlain Spring Co. Ltd.	425 West 6th Ave., Vancouver 10
Henry, O.J., Co.	654 W. 7th Ave., Vancouver 9
Industrial Wire & Iron Works	337 West 2nd Ave., Vancouver 10
Morrison Steel & Wire Co. Ltd.	Granville Island, Vancouver 9
No-Sag Spring Co. Ltd.	141 # 5 Road, Richmond
Pacific Bolt Manufacturing Co. Ltd.	450 South West Marine Dr., Vancouver 14
Simplex Wire & Machine Works Ltd.	842 Powell St., Vancouver 4
West Coast Wire Works Limited	8183 Manitoba St., Vancouver 15
Western Metal Products Ltd.	1000 Parker St., Vancouver 6
Western Wire Products Ltd.	1018 Burnaby St., Vancouver 5
Western Wirecraft Co.	1101 Union St., Vancouver 6
Wright's Canadian Ropes Limited	350 S.E., Marine Drive, Vancouver

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