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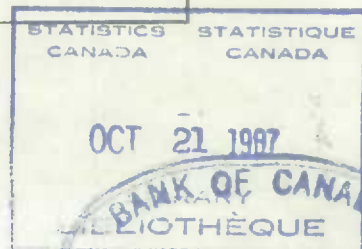


APR 8 1964

MANUFACTURERS OF ELECTRIC WIRE AND CABLE 1961

The list of firms normally included in this report has been omitted from this issue, along with certain tables. See introductory text for details.

ANNUAL CENSUS
OF MANUFACTURES



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SYMBOLS

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

... 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 1961 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. Implementation of the new definition of the establishment in the 1961 Census has resulted in certain changes and necessitated some adjustments to the statistics for previous years in order to maintain comparability of the data. (See following note on "Establishment".)

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 1961, 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

The reporting unit in the Census of Manufactures is the **establishment**. Beginning with the 1961 Census, the establishment is defined as follows:

The smallest unit which is a separate operating entity capable of reporting all the following:

- Materials and supplies used,
- Goods purchased for resale as such,
- Fuel and power consumed,
- Number of employees and their pay,
- Inventories,
- Shipments or sales.

The establishment is to be distinguished from smaller subdivisions or departments which do not have records which permit them to report all items required of an establishment. Prior to 1961, some establishments were required to submit two or more separate reports when they were engaged in operations which were classifiable to different industries. Beginning with 1961, separate reports for such operations will be required only in cases where accounting records can provide all the elements of principal statistics enumerated above. Special reporting arrangements were made with respondents when the acceptance of combined reports would have seriously affected the statistics for particular industries or areas. Where continuity of industry statistics was affected by this change in reporting procedures, adjustments to the data were made back to 1957 in order to maintain comparability of the series for recent years.

A manufacturing establishment is typically a factory, mill or plant principally engaged in manufacturing operations. Prior to 1961, the Census of Manufactures attempted to cover the manufacturing activities of all establishments, whether or not they were principally engaged in manufacturing operations. Beginning with the 1961 Census, establishments (accounting entities) which are not primarily engaged in manufacturing are no longer included as manufacturing establishments in the basic industry statistics. Again adjustments to the industry statistics were made to reflect the removal of such reporting units for the period 1957-1960. These reporting units are now listed as establishments in other Bureau industry surveys, such as Wholesale Trade, Construction, etc. In order, however, to maintain complete coverage of certain commodity items produced mainly in manufacturing establishments, many non-manufacturing establishments are now surveyed for commodity shipments only and the latter are included in those tables of industry reports showing shipments of certain commodities "from all industries".

Many firms have more than one manufacturing establishment. Such firms are requested to submit a separate Census of Manufactures report for each manufacturing establishment which can meet the reporting requirements described earlier.

Prior to 1961, the main emphasis in the Census of Manufactures was on manufacturing activity whereas, beginning with 1961, each establishment reports on the total operations carried out within its accounting boundaries (except income from investments such as rent, interest and dividends). However, data on different activities (manufacturing, selling, construction by own labour force etc.) are requested separately. The 1961 statistics in this report are confined to manufacturing activity in order to maintain comparability with previous years. In the 1962 reports it is planned to show both 1961 and 1962 data on the "total activity" basis in addition to the data on manufacturing operations.

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 but will be shown separately in subsequent years.

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, handling, warehousing and delivery staff. 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 the calendar year 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 with salaries, but will be shown separately in subsequent years. 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 establishment including freight, duty, etc.

Materials and Supplies Used

Figures represent quantities and laid-down cost values, at the establishment, of materials, supplies and components 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 generally refer to shipments of goods made from own materials either in the reporting establishments or by other manufacturers on the basis of a charge to the reporting establishment 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 which are treated as separate establishments are included. Goods bought or received as transfers and resold without further processing are not included. Values are requested

on f.o.b. establishment 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 value of manufacturing inventory. Figures consist of inventory at the plant and at warehouses or selling outlets which are treated as extensions of the plants for the purpose of reporting shipments.

Value added by Manufacturing

Value added is compiled by deducting the cost of materials, fuel and electricity consumed from the value of production (value of shipments adjusted for changes in the value of inventories of finished goods and goods in process). Value added is sometimes referred to as net production.¹

Standard Industrial Classification

The revised Standard Industrial Classification which was 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. 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.

Establishments engaged solely in repair work are not included in manufacturing industries (except in the case of furniture, shipbuilding, boat building, aircraft and railroad rolling stock industries) but establishments principally engaged in assembling parts into complete units are included.

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 advertising, insurance and other business costs which are not collected in the annual Census of Manufactures. Value added figures for the primary industries, manufacturing and construction are published in D.B.S. publication 61-203, Survey of Production.

Short Forms

Since 1949, in order to ease the reporting burden for smaller firms, a one-page short form has been used asking only for certain principal items of shipments. For purposes of publication, missing data were estimated on the basis of appropriate ratios. For the 1959 and 1960 censuses the general limit for short forms was raised from \$50,000 to \$100,000 value of shipments and a new intermediate form was used. This form is a shortened version of the long form in that some 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 inter-

mediate forms there are lower cut-offs for a number of industries in which the smaller firms account for a larger share of total shipments.

In the 1961 Census, in addition to the question on shipments of goods of own manufacture, questions on employment and payroll and on total revenue were added on all short forms. The other elements of principal statistics, viz. value of materials, fuel and electricity, and inventories, are generally estimated by using ratios based on the change in the value of shipments from year to year. This is to permit the complete compilation of basic industry statistics by industry and by geographic location. The proportion of the estimated data is generally less than 5 per cent of the total in each category of principal statistics.

MANUFACTURERS OF ELECTRIC WIRE AND CABLE

1961

Data for 1961 presented in this report reflect implementation of the revised Standard Industrial Classification (S.I.C.) and the New Establishment Concept which are being used by the Dominion Bureau of Statistics in its compilation of 1961 industry statistics—see items "Standard Industrial Classification" and "Establishment" in the Explanatory Notes section of this report. For statistical purposes the industry titled Manufacturers of Electric Wire and Cable in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing electric wire and cable both insulated or armoured and non-insulated.

The introduction of the new definition of establishment (reporting unit) in the 1961 Census of Manufactures has resulted in certain changes and necessitated some adjustments to the statistics. In the case of the industry under review such changes were of a relatively minor nature.

As a result of increased work loads and staff shortages it has been necessary to suspend publication of certain tables normally contained in this report. It is planned to resume publication of these tables in the 1962 report. In general the tables affected are the following: Directory of firms—Imports—Exports—Capital and Repair Expenditures.

TABLE 1. Principal Statistics: Manufacturers of Electric Wire and Cable by Provinces, 1957-61
Basis: Revised Standard Industrial Classification and New Establishment Concept

Year and province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at works	Cost at plant of materials used	Value added by manufacture	Value of factory shipments
	number				dollars		
1957							
Quebec	6	2,988	13,252,597	659,028	41,723,634		70,937,679
Ontario	12	4,259	17,386,136	778,744	46,506,187	¹	77,343,579
Other provinces	6	229	788,570	90,056	6,370,338		7,922,034
Canada	24	7,476	31,427,303	1,527,828	94,600,159		156,203,292
1958							
Quebec	7	2,786	13,007,705	656,726	38,189,140	23,840,525	63,838,684
Ontario	13	3,794	16,260,311	734,050	43,203,751	23,804,913	67,234,710
Other provinces	8	242	967,227	92,622	4,369,979	2,318,735	6,500,467
Canada	28	6,822	30,235,243	1,483,398	85,762,870	49,964,173	137,573,861
1959							
Quebec	7	2,833	13,928,792	683,907	41,661,927	28,921,333	69,354,645
Ontario	13	3,887	17,575,995	949,574	51,599,726	29,297,421	79,026,387
Other provinces	8	306	1,225,499	110,897	6,048,706	2,526,946	8,843,898
Canada	28	7,026	32,730,286	1,744,378	99,310,359	60,745,700	157,224,930
1960							
Quebec	8	2,803	14,185,992	684,746	45,187,079	29,730,278	76,091,153
Ontario	12	3,641	16,618,917	922,231	44,573,531	24,631,517	71,608,080
Other provinces	8	271	1,066,803	92,661	5,260,344	4,017,170	9,073,794
Canada	28	6,715	31,871,712	1,699,638	95,020,954	58,378,965	156,773,027
1961							
Quebec	6	2,646	13,570,616	690,348	45,516,000	31,537,184	76,039,018
Ontario	12	3,431	15,755,505	1,027,161	51,292,433	27,645,865	77,105,103
Other provinces	7	271	1,140,864	116,023	6,544,864	3,002,167	9,457,384
Canada	25	6,348	30,466,985	1,833,532	103,353,297	62,185,216	162,601,505

¹ Because of lack of inventory data "Value added" is not available for 1957.

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

TABLE 2. Inventories:¹ Manufacturers of Electric Wire and Cable, 1961

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
Opening:				
Quebec	4,191,676	3,534,451	4,162,807	11,888,934
Ontario	3,525,079	3,698,291	11,034,243	18,257,613
Other provinces	810,525	805,118	377,264	1,992,907
Canada	8,527,280	8,037,860	15,574,314	32,139,454
Closing:				
Quebec	4,410,466	4,415,513	4,986,259	13,812,238
Ontario	3,840,619	4,484,371	13,108,519	21,433,509
Other provinces	959,816	831,440	556,612	2,347,868
Canada	9,210,901	9,731,324	18,651,390	37,593,615

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

(b) The opening inventory for 1961 differs from the closing inventory for 1960 because of the receipt of revised data, the inclusion of new establishments, the removal of figures for establishments which did not operate during 1961, changes in classification, and the implementation of the New Establishment Concept.

TABLE 3. Factory Shipments: Manufacturers of Electric Wire and Cable, 1961

Item	Value of factory shipments
	\$
Telephone cables—Exchange, toll and entrance	28,278,022
Telephone wires insulated (drop wires, inside wires, other telephone wires)	8,583,478
Telephone switch board wires and cables	6,560,258
Television and radio wires and cables	1,864,297
Telephone cordage	827,618
Bare wires and cables (other than copperweld and aluminum)	7,302,431
Bare copperweld wires and cables and copperweld-copper strands	786,979
Bare ACSR and aluminum wires and cables	14,042,786
Annunciator and office wires and cables	277,583
Magnet wires—Thin film insulated	11,758,463
Other than thin film insulated	2,913,172
Weatherproof wires	4,621,458
Power cables (copper or aluminum conductors)	12,579,336
Signal and control cables	2,581,564
Portable and power supply cables	1,444,147
Building wires—Non-metallic sheathed cables	9,798,603
Flexible armoured building cables	6,042,471
Other building wires (exclusive of types in proceeding two items)	13,620,608
Flexible cords and fixture wires	3,939,898
Service and service entrance cables	2,808,726
Other wires and cables, including mineral insulated, asbestos covered, rubber and plastic insulated wires and cables not otherwise provided for	9,503,036
All other products, not separately specified	6,713,458
Amount received for repair work	39,975
Less adjustments for value of sales taxes, excise duties and outward transportation charges which were not deducted from individual commodity items detailed above	4,286,862
Total value of shipments and work done	162,601,505

TABLE 4. Materials Used: Manufacturers of Electric Wire and Cable, 1961

Material	Quantity	Cost at works
		\$
Aluminum—Castings	lb. 91,562	47,539
Wire rods	" 50,223,400	13,919,520
Sheets and strip	" 4,598,409	2,082,037
Other forms .....	...	430,436
Asbestos (yam, tape, etc.)	lb. 75,837	105,191
Brass and bronze—Sheets and strip	" 30,864	18,701
Wire Rods	" 79,065	60,047
Other forms .....	...	15,303
Chalk or whiting	lb. 2,820,970	75,406
China clay (Kaolin)	ton 1,272	57,445
Copper—Wire rods	lb. 129,714,850	41,500,068
Sheets and strip	" 444,077	261,933
Tubing and pipe	" 742,276	332,985
Wire, other insulated .....	...	456,508
Other forms .....	...	7,569,509
Cotton and linen, all forms (sheet, tape, yarn etc.) .....	...	2,000,981
Fibreglass (yam, tape etc.) .....	...	338,712
Insulating varnishes, Japans, enamels and lacquers .....	...	1,185,192
Jutes .....	...	389,022
Papers, insulating, all forms .....	...	1,537,524
Iron and steel:		
Steel bars and rods	ton 1,852	746,852
Steel sheet and strip	" 2,103	613,268
Steel wire	" 10,519	2,973,306
Other iron and steel .....	...	276,318
Lead—Pig (pure)	lb. 9,424,165	967,642
Antimonial	" 2,450,182	264,918
Other	" 2,867,327	302,659
Lead oxide—Litharge	" 18,260	3,084
Red lead	" 79,032	18,805
Mica unfabricated forms	" 11,830	1,345
Paints, stains, lacquers, etc. (for finishing only) .....	...	276,002
Resins synthetic (moulding powders, sheets, etc.):		
Vinyl type (PVC, etc.) .....	...	5,080,097
Polyethylene type (Polythene, etc.) .....	...	5,437,552
Other (Bakelite, nylon, orlon, etc.) .....	...	779,013
Resistance wire, ribbon and strip	lb. 9,223	26,982
Rubber	" 2,625,280	793,374
Sulphuric acid, 100%	" 104,443	2,327
Talc	" 247,806	5,382
Tin	" 116,455	136,618
Zinc oxide	" 546,416	77,508
Containers and other packaging materials or supplies .....	...	1,634,266
Operating, maintenance and repair supplies .....	...	2,919,056
All other materials .....	...	7,632,864
Total materials .....	...	103,353,297

TABLE 5. Factory Shipments of Electrical Wires and Cable, 1960 and 1961 (from All Industries)

Item	Value of factory shipments	
	1960	1961
	dollars	
Telephone cables -- Exchange	31,787,513	28,278,022
Toll and toll entrance		
Telephone wires, insulated (drop wires, inside wires, other telephone wires)	7,842,564	8,583,478
Telephone switchboard wires and cables	6,126,304	6,560,258
Television and radio wires and cables	1,169,646	1,864,297
Telephone cordage	1,258,682	827,618
Bare wires and cables (other than copperweld and aluminum)	7,879,732	7,302,431
Bare copperweld wires and cables and copperweld-copper strands	738,201	786,979
Bare ACSR and aluminum wires and cables	15,013,515	14,042,786
Annunciator and office wires and cables	268,848	277,583
Magnet wires -- Thin film insulated	10,428,476	11,758,463
Other than thin film insulated	2,791,151	2,913,172
Weatherproof wires	4,752,495	4,621,458
Power cables (copper or aluminum conductors)	13,734,434	12,579,336
Signal and control cables	2,530,056	2,581,564
Portable and power supply cables	1,090,126	1,444,147
Building wires -- Non-metallic sheathed cables	7,748,824	9,798,603
Flexible armoured building cables	5,016,451	6,042,471
Other building wires (exclusive of types covered by preceding two items)	14,449,037	13,620,608
Flexible cords and fixture wires	3,758,421	3,939,898
Service and service entrance cables	2,700,240	2,808,726
Other wires and cables not otherwise provided for	8,710,799	9,924,953
Totals	149,795,515	150,556,851

TABLE 6. Principal Statistics classified according to Type of Ownership:
Manufacturers of Electric Wire and Cable, 1961

Type	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of materials used	Value of factory shipments
	number		dollars		
Individual ownership	—	—	—	—	—
Partnerships	—	—	—	—	—
Incorporated companies	25	6,348	30,466,985	103,353,297	162,601,505
Totals	25	6,348	30,466,985	103,353,297	162,601,505

**TABLE 7. Principal Statistics grouped according to Selling Value of Factory Shipments:
Manufacturers of Electric Wire and Cable, 1961**

Establishments having reporting factory shipments	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of materials used	Value of factory shipments
	number		dollars		
\$ 25,000 to \$ 999,999	5	140	503,962	1,562,182	2,477,299
1,000,000 " 4,999,999	12	1,007	4,242,493	16,972,339	28,357,283
5,000,000 and over	8	5,201	25,720,530	84,818,776	131,766,923
Totals	25	6,348	30,466,985	103,353,297	162,601,505

**TABLE 8. Employees and their Earnings, by Provinces: Manufacturers of
Electric Wire and Cable, 1961**

Province	Employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
	number					dollars		
Quebec	760	141	1,623	122	2,646	5,361,934	8,208,682	13,570,616
Ontario	723	249	2,369	90	3,431	4,882,112	10,873,393	15,755,505
Other provinces	59	13	198	1	271	334,502	806,362	1,140,864
Canada	1,542	403	4,190	213	6,348	10,578,548	19,888,437	30,466,985

TABLE 9. Production Workers, by Months: Manufacturers of Electric Wire and Cable, 1961

Month	Establishments reporting monthly detail	
	Male	Female
January	3,857	208
February	3,890	205
March	3,898	204
April	4,158	212
May	4,251	216
June	4,303	213
July	4,347	215
August	4,307	216
September	4,386	216
October	4,306	215
November	4,320	218
December	4,276	219
Monthly averages	4,190	213

TABLE 10. Fuel and Electricity Used: Manufacturers of Electric Wire and Cable, 1961

Kind		Quantity	Cost at plant
			\$
1. Establishments reporting commodity detail: ¹			
Bituminous coal:			
(a) From Canadian mines	ton	3,763	26,947
(b) Imported	"	10,595	148,874
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	233,535	84,808
Fuel oil including kerosene or coal oil	"	4,055,924	315,700
Gas:			
(a) Liquefied petroleum gases	"	36,812	7,331
(b) Natural gas	M cu. ft.	203,225	200,051
Electricity purchased	kwh.	126,178,321	1,042,169
2. Estimate for establishments for which no data were collected: ²			
Cost of fuel and electricity .....		...	7,652
3. All establishments:			
Total cost of fuel and electricity .....		...	1,833,532

¹ Large establishments.² Small establishments.