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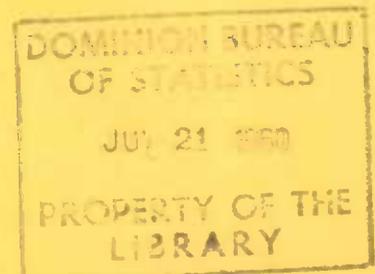
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CANADA

THE ELECTRICAL APPARATUS AND
SUPPLIES INDUSTRY

1958



DOMINION BUREAU OF STATISTICS

Industry and Merchandising Division

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THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY
1958

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PUBLICATIONS

The results of the annual Census of Industry are published by the Dominion Bureau of Statistics in a series of industry reports which are released each year as the compilations are completed. Reports for industries in the **Electrical Apparatus and Supplies** Major Group are listed below, along with current and annual publications of related interest. Similar reports are issued for other industries. A complete catalogue of publications of the Bureau is available on request from the Information Services Division, Dominion Bureau of Statistics, Ottawa, or from the Queen's Printer, Ottawa.

A - Annual

M - Monthly

S.C. Special Compilation

Catalogue number	Title	Price
43-201	The Electrical Apparatus and Supplies Industry (A)75

43-001	Domestic Refrigerators and Freezers (M)	per year 1.00
43-002	Domestic Washing Machines and Clothes Dryers (M).....	per year 1.00
43-003	Specified Domestic Electrical Appliances (M)	per year 1.00
43-004	Radio and Television Receiving Sets (M)	per year 1.00
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57-202	Electric Power Statistics (A)75
57-204	Electric Power Survey of Capability and Load (A)50
64-202	Household Facilities and Equipment (A).....	.50
31-201	General Review of Manufacturing Industries (A)	2.00
31-001	Inventories, Shipments and Orders in Manufacturing Industries (M)	per year 4.00
65-004	Trade of Canada - Exports (M).....	per year 7.50
65-007	Trade of Canada - Imports (M)	per year 7.50

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EXPLANATORY NOTES

This report is one in a series of about 130 publications which present the results of the 1958 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. An annual Census of Manufactures has been carried out by the Dominion Bureau of Statistics since 1916.

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 1958, 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, warehousing 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 of 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 Standard Industrial Classification Manual, prepared by the Dominion Bureau of Statistics, provides for 135 three-digit industries in the manufacturing sector, arranged in 17 major groups. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

Short Forms

Prior to 1949 all manufacturing firms, regardless of size, were required to complete a standard form annually covering all census details, but for later years an effort was made to ease the reporting burden for smaller firms which usually do not maintain regular records in the required detail. A modified or short form was introduced in 1949 asking for the total value of shipments only, or in industries with a large number of small firms, for total value of shipments and quantities and values of a few principal products. Using the ratio of value of shipments in the current year to value of shipments in the base year, 1948, estimates of other census data were made for each plant for inclusion in the regular compilations. In general, the cut-off point for short forms was set at \$50,000 gross value of shipments annually, but there were lower cut-offs for a number of industries in which the small firms accounted for a larger share of total shipments. About 40 per cent of the total number of establishments reported on the modified or short form. They accounted for less than 3 per cent of the total value. In 1958, to establish a new base year, the small firms were again asked to report data on employees, salaries and wages, and other principal statistics together with some detail on material and products.

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*.

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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.
- P preliminary figures.
- * revised figures.

THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY

1958

Factory shipments reported by firms in the Electrical Apparatus and Supplies Industry in 1958 were valued at \$1,015,416,736 a decrease of 5.8 per cent from the \$1,078,212,912 reported in 1957. The 492 firms which reported in this group in 1958 were distributed across Canada as follows: 1 in Newfoundland; 1 in Nova Scotia; 1 in New Brunswick; 98 in Quebec; 320 in Ontario; 20 in Manitoba; 3 in Saskatchewan; 9 in Alberta and 39 in British Columbia. These plants gave employment to a total of 74,944 workers who were paid \$316,357,773 in salaries and wages. Expenditures for materials amounted to \$473,902,660 and an additional \$9,191,597 was spent for fuel and electricity.

This industrial group includes most of the concerns in Canada which manufacture equipment for use in the generation, transmission and utilization of electricity. However, it is not possible to include all such producers in this group under the Standard Industrial Classification which is used for the annual Census of Industry. According to this system which combines the concept of "purpose" with that of "chief component material" some important producers must be allotted to other industries. For example, since clay is the chief materials used in making porcelain insulators, the producers of these goods have been classified to the Clay Products Industry under the main group which embraces all manufacturers of non-metallic minerals; similarly, the makers of electric washing machines have been included in the Machinery Industry of the iron and steel group. Again, some electrical supplies were made as minor products of plants which were primarily engaged in other lines of business and, therefore, were included in other industries. The output of electrical apparatus in these other industries, including electrical accessories for automobiles and household use, but excluding office and industrial machinery, amounted in value to about \$139,000,000 in 1958 — see Table 2.

Statistics given in Tables 1, 3 to 6, 39 to 41, and 43 and 44 of this report cover only the concerns in the Electrical Apparatus and Supplies Industry. Tables 7 to 38 give the total Canadian output (regardless of the industry in which produced) of generators, motors, transformers, conduit, switch gear, vacuum cleaners, dry cell batteries, storage batteries, radios, television sets, radio tubes, flat irons, toasters, lamps, wire and cable, stoves, welding apparatus, control equipment, water-tank heaters, refrigeration equipment, cutouts and fuses, lighting fixtures, wiring devices, converter equipment, pole line hardware, washing machines, ironers and miscellaneous electrical appliances. Table 42

is a special compilation covering imports and exports of certain specified electrical products.

The Standard Industrial Classification, which has been used by the Dominion Bureau of Statistics in its compilations since 1949, provides for a breakdown of the Electrical Apparatus and Supplies group into five divisions, and individual firms were classified to each of these divisions according to the nature of their principal product. For example, a firm primarily concerned with the production of radios (that is, 50% or more of its output by value being accounted for by radios) was classified to the Radio and Radio Parts group. It follows, of course, that by using this principle not all producers of radios are coded in this class. For instance, a firm chiefly engaged in, say the production of refrigerators, might also make radios as a secondary product. In this case it would properly be classified to the Refrigerators, Vacuum Cleaners and Appliances group. Principal statistics for the five groups are detailed in Table 3.

Note: Figures for "Value added by manufacture", shown in Table 1, prior to 1952 were obtained by subtracting the cost of materials used, including fuel and electricity, from the value of production. In 1952 the gross value of production was replaced by value of factory shipments, f.o.b. plant. As no information on inventory change is available for 1952 and 1953, value added figures for these years were obtained by subtracting from the value of shipments the cost of materials, fuel and electricity. 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. The "Goods in process" adjustment is not based on the values for this item as shown in Table 4 which represents goods in process **owned** by reporting manufacturers only; but rather, is based on goods in process **held** by manufacturers (i.e. goods in process inventory owned plus inventory held under progress payments arrangements). An inventory change of \$29,253,000 for these progress payments was therefore added in 1956 to the goods in process figures in order to arrive at an actual "Value added" figure. In 1957 the adjustment involved subtracting \$653,000 from the goods in process figures and in 1958 the adjustment was a minus \$5,255,000.

TABLE 1. Principal Statistics of the Electrical Apparatus and Supplies Industry, Significant Years 1929-58, and by Provinces, 1957 and 1958

Year and province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at works	Cost at works of materials used	Value added by manufacture ¹	Gross selling value of products ¹
	number		dollars				
1929	139	20,871	26,725,215	1,098,506	49,623,322	63,074,174	113,796,002
1933	174	11,767	12,428,430	851,575	14,504,269	22,508,240	37,012,509
1937	191	21,706	26,291,436	1,331,249	41,695,446	55,815,297	98,841,992
1939	190	20,261	25,711,092	1,266,471	39,331,766	48,462,341	89,060,578
1944	234	48,834	82,304,460	2,488,432	120,413,034	160,169,974	283,071,440
1946	266	43,998	74,510,479	2,667,477	101,939,272	129,965,904	234,572,653
1949	365	55,916	137,278,521	4,483,959	212,460,413	269,410,983	486,355,355
1954	457	75,075	258,509,601	7,423,726	396,583,427	462,960,141	863,942,144
1955	468	76,244	264,031,474	7,876,225	477,655,753	469,918,651	962,615,012
1956	473	83,296	310,522,800	9,164,267	558,249,520	577,411,595	1,090,194,175
1957							
Newfoundland	1	24,374	95,018,910	2,553,507	130,853,285	145,347,469	277,284,677
Nova Scotia	1						
Quebec	99						
Ontario	312	54,622	216,733,886	6,584,722	343,522,935	405,419,816	759,921,341
Manitoba	20	1,149	3,727,272	147,184	7,260,761	7,892,399	14,921,194
Saskatchewan	3	244	853,631	84,538	4,949,083	1,722,782	6,679,886
Alberta	8						
British Columbia	42	1,043	4,082,948	155,113	11,656,579	8,204,799	19,405,814
Canada	486	81,432	320,416,647	9,525,064	498,242,643	569,240,265	1,078,212,912
1958							
Newfoundland	1	22,794	95,261,990	2,584,938	124,202,367	139,827,684	269,993,177
Nova Scotia	1						
New Brunswick	1						
Quebec	98	49,991	212,223,335	6,200,475	330,873,705	365,895,233	708,050,236
Ontario	320						
Manitoba	20	1,005	3,886,203	134,926	6,198,446	7,308,133	13,900,617
Saskatchewan	3	235	881,525	83,189	4,240,226	2,769,084	7,336,838
Alberta	9						
British Columbia	39	919	4,104,720	188,069	8,387,916	8,026,807	16,135,868
Canada	492	74,944	316,357,773	9,191,597	473,902,660	523,826,941	1,015,416,736

¹ See note to text.

TABLE 2. Production of Certain Electrical Apparatus by Firms classified to Industries other than the Electrical Apparatus and Supplies Industry, 1957

Note: Data given in this table represent the output of electrical appliances or equipment reported as minor products by concerns which have been classified to industries other than the Electrical Apparatus and Supplies Industry. These figures may be added to those given in Table 5 to arrive at the total Canadian output for this equipment. See also Tables 7 to 38. Details along the lines presented below are not available for 1958 but it is estimated that the total for 1958 will be about \$139,000,000.

Item	Value of factory shipments
	\$
Washing machines, electric type	22,745,000
Pole line hardware	3,018,000
Water heaters, including immersion, circulating and storage tank types	3,008,000
Electrical equipment, automotive:	
Spark plugs	8,897,000
Distributors, battery cables, ignition coils, and wire assemblies	5,612,000
Headlights	2,901,000
Other electrical equipment, automotive type including generators, starters and voltage regulators..	9,110,000
Refrigeration and air conditioning equipment:	
Mechanical refrigerators	8,090,000
Other refrigeration and air conditioning equipment	13,782,000
Electric ranges (excluding oil and gas combinations) rangettes and grills	17,818,000
Motor driven equipment n.e.s., including vacuum cleaners, fans, electric clocks, floor polishers, clothes dryers, shavers, hair clippers and electric ironers	8,758,000
Heating and cooking apparatus and appliances, n.e.s., including electric kettles, irons, heating pads, air heaters, commercial cooking ranges, electric furnaces, electropails, etc.	1,833,000
Apparatus including motors, switchgear, welders, welding rod, transformers, etc.	5,254,000
Electrical porcelain	6,845,000
Lighting fixtures	473,000
All other electrical apparatus including wire and cable, carbon and graphite electrodes, plastic products, (electrical), conduit and fittings, electronic equipment, control equipment, etc.	29,856,000
Total	148,000,000

TABLE 3. Principal Statistics, by Sub-groups,¹ 1957 and 1958

Group	Estab-lish-ments	Em-ployees	Salaries and wages	Cost of fuel and electricity at works	Cost at works of materials used	Value added by manufacture ²	Value of factory shipments ¹
1957							
Batteries	34	2,296	8,948,462	565,613	24,573,500	18,030,192	41,678,716
Heavy electrical machinery	78	24,234	103,078,674	2,500,366	114,474,507	182,442,834	301,241,082
Telecommunication equipment ³	127	18,503	68,088,842	1,268,756	105,999,742	111,127,430	217,726,717
Refrigerators and appliances	75	8,789	33,373,881	1,678,466	69,421,712	66,172,088	136,487,474
Miscellaneous electrical products:							
Wires and cables ⁴	23	7,464	31,414,168	1,526,027	94,531,959	60,269,381	160,300,652
Other miscellaneous electrical products	149	20,146	75,512,620	1,985,836	89,241,223	130,545,340	220,778,271
Total	486	81,432	320,416,647	9,525,064	498,242,643	568,587,265	1,078,212,912
1958							
Batteries	31	2,183	8,494,204	511,447	22,184,794	15,387,640	39,604,763
Heavy electrical machinery	80	20,074	97,573,375	2,151,912	97,534,523	139,709,541	244,743,678
Telecommunication equipment ³	127	19,100	75,497,784	1,189,333	119,506,470	122,008,393	237,994,688
Refrigerators and appliances	75	8,471	33,631,510	1,877,276	70,624,131	70,893,553	145,236,530
Miscellaneous electrical products:							
Wires and cables ⁴	27	6,809	30,213,533	1,481,203	85,702,096	53,506,507	141,099,882
Other miscellaneous electrical products	152	18,307	70,947,367	1,980,426	78,350,646	122,321,307	206,737,195
Total	492	74,944	316,357,773	9,191,597	473,902,660	523,826,941	1,015,416,736

¹ Sub-division made on basis of principal products.

² See note to text.

³ For statistical purposes this industry includes in addition to firms manufacturing radios and radio parts firms engaged in manufacturing record players, television equipment (including complete sets), radar and other electronic and telecommunication equipment (except telephone equipment). At the present time manufacturers of telephone equipment are classified to the "Other miscellaneous electrical products" industry.

⁴ "Wires and cables" as a sub-division of the miscellaneous electrical products industry available for the first time in 1955.

TABLE 4. Inventories,¹ 1958

	Raw materials and supplies	Goods in Process ²	Finished goods of own manufacture	Total
	dollars			
(a) By sub-groups				
Opening:				
Batteries	3,403,555	3,190,181	2,859,671	9,453,407
Heavy electrical machinery and equipment	28,756,570	15,780,261	18,958,031	63,494,862
Telecommunication equipment ³	14,497,203	16,771,679	23,688,592	54,957,474
Refrigerators, vacuum cleaners and appliances	12,722,151	7,126,599	19,467,144	39,315,894
Miscellaneous electrical products:				
Wires and cables	9,768,867	7,074,502	9,303,178	26,146,547
Other miscellaneous electrical products	16,098,234	25,435,418	22,134,834	63,668,486
Canada	85,246,580	75,378,640	96,411,450	257,036,670
Closing:				
Batteries	2,920,360	2,622,409	1,906,561	7,449,330
Heavy electrical machinery and equipment	22,980,866	17,910,010	15,853,580	56,744,456
Telecommunication equipment ³	13,268,624	16,910,456	29,416,323	59,595,403
Refrigerators, vacuum cleaners and appliances	11,794,865	9,043,789	15,708,384	36,547,038
Miscellaneous electrical products:				
Wires and cables	10,883,018	7,369,918	8,597,686	26,850,622
Other miscellaneous electrical products	14,850,555	25,397,287	17,813,149	58,060,991
Canada	76,698,288	79,253,869	89,295,683	245,247,840
(b) By provinces				
Opening:				
Newfoundland, Nova Scotia, New Brunswick and Quebec	18,981,041	33,378,656	31,207,098	83,566,795
Ontario	61,397,832	39,536,408	62,980,647	163,914,887
Manitoba	1,535,390	935,009	945,728	3,416,127
Saskatchewan and Alberta	709,821	381,925	486,541	1,578,287
British Columbia	2,622,496	1,146,642	791,436	4,560,574
Canada	85,246,580	75,378,640	96,411,450	257,036,670
Closing:				
Newfoundland, Nova Scotia, New Brunswick and Quebec	17,362,104	32,260,392	28,947,174	78,569,670
Ontario	54,816,629	44,505,730	58,185,502	157,507,861
Manitoba	1,406,813	760,889	860,736	3,028,438
Saskatchewan and Alberta	542,422	338,953	285,174	1,166,549
British Columbia	2,570,320	1,387,905	1,017,097	4,975,322
Canada	76,698,288	79,253,869	89,295,683	245,247,840

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

(b) Beginning with 1954, information on the value of year-end inventory holdings at plant and plant warehouses is being collected as part of the annual Census of Industry. These data were formerly collected by a separate survey. The summarized results for the Electrical Apparatus and Supplies Industry for the year under review are shown in the above table.

(c) The opening inventory for 1958 does not necessarily agree with the closing inventory for 1957 because of revisions such as the addition of new plants, the transfer of plants to other industries and plants going out of business, etc. However, the value added figures for the previous year have not been recalculated to allow for the revisions mentioned above.

² See note to text.

³ See footnote to Table 3.

**TABLE 5. Products Made in the Electrical Apparatus and Supplies Industry,
1957 and 1958 — Concluded**

Product	1957		1958	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
	No.	\$	No.	\$
Radio apparatus and supplies:				
Radio receiving sets for civilian use (x) (see Table 15).....	638, 109	22, 615, 006	645, 038	22, 273, 118
Record players — With amplifier.....	272, 421	7, 837, 642	245, 454	7, 612, 787
Without amplifier.....	11, 070	186, 561	3, 916	63, 921
Radio transmission equipment for civilian use (x).....	..	10, 605, 721	..	11, 181, 782
Radio communication equipment for military purposes (x) (except radar).....	..	4, 431, 677	..	10, 004, 775
Radar equipment — commercial and defence.....	... ¹	10, 123, 042	... ¹	21, 980, 616
Radio condensers.....	..	..	..	..
Navigational equipment, aeronautical and marine.....	... ¹	673, 695	... ¹	750, 495
Carrier current equipment.....	... ¹	12, 774, 060	... ¹	11, 541, 463
Studio television equipment, including cameras, etc.....	... ¹	1, 604, 176	..	2, 321, 942
Radio transmitters for broadcast and television.....	... ¹	..	..	..
Television equipment — Complete sets (see Table 16).....	434, 504	68, 012, 547	432, 318	67, 669, 153
Industrial electronic control (relays, photo-electric timing, capacitance, etc. and electronic control panels for indus- trial applications) (x).....	... ¹	271, 145	... ¹	757, 091
Spare parts (less tubes) for maintenance of electronic tele- communication equipment and other electronic equipment— commercial and defence.....	... ¹	2, 882, 196	... ¹	2, 315, 643
Contract maintenance of electronic telecommunication equip- ment—Commercial and defence.....	... ¹	6, 503, 785	... ¹	5, 017, 245
All other radio and electronic equipment, except tubes and transformers.....	... ¹	36, 485, 025	... ¹	30, 408, 495
Signal systems:				
Traffic.....	..	483, 347	..	394, 562
Fire alarm.....	..	935, 422	..	926, 580
Interior signal and clock systems, excluding telephone.....	..	1, 568, 150	..	1, 790, 518
Vacuum tubes (see Table 17).....	..	20, 884, 471	..	25, 156, 053
Wiring devices (x) (see Table 31).....	... ¹	16, 180, 071	... ¹	11, 713, 159
Wires and cables (x) (see Table 22).....	..	153, 845, 828	..	136, 812, 123
Miscellaneous:				
Fencers, electric (x).....	3, 915	49, 582	3, 659	47, 927
Rectifiers, except power type.....	..	996, 461	..	899, 749
Telephone materials, including exchange switchboards, tele- phones, transmitters, etc.....	... ¹	84, 645, 525	... ¹	73, 498, 743
All other products, not separately specified.....	... ¹	61, 817, 001	... ¹	55, 940, 197
Amount received for repair work.....	... ¹	8, 158, 869	... ¹	6, 291, 300
Total all products.....	...¹	1, 078, 212, 912	...¹	1, 015, 416, 736

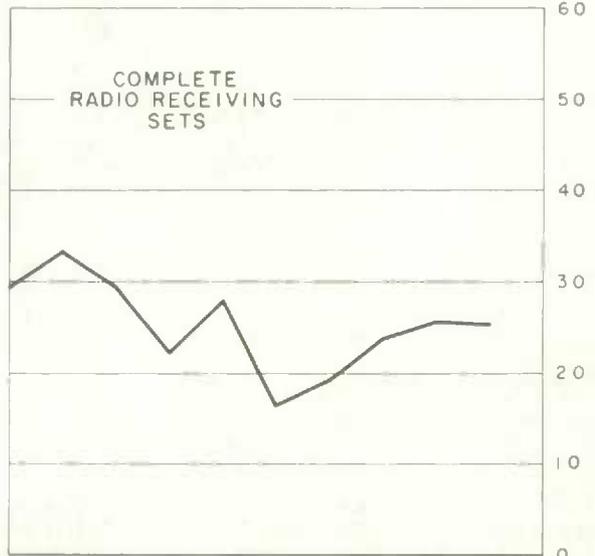
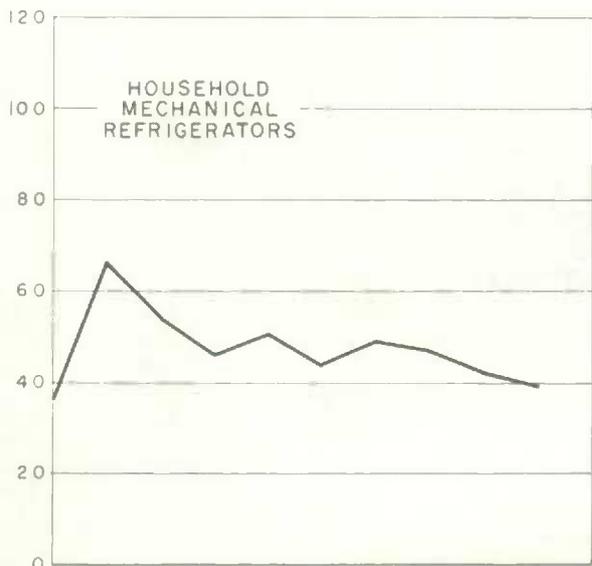
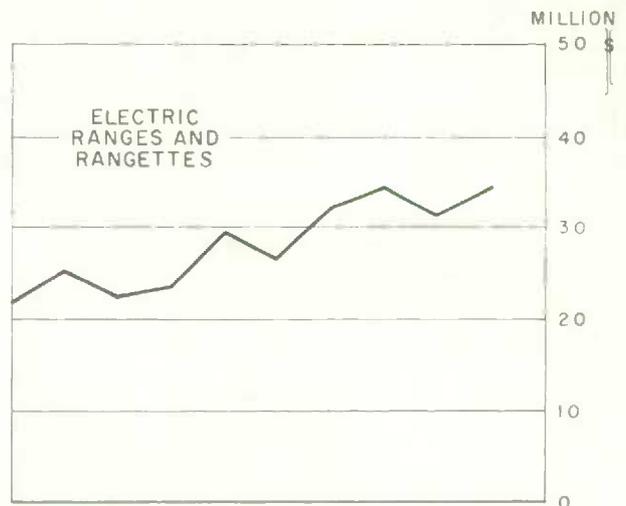
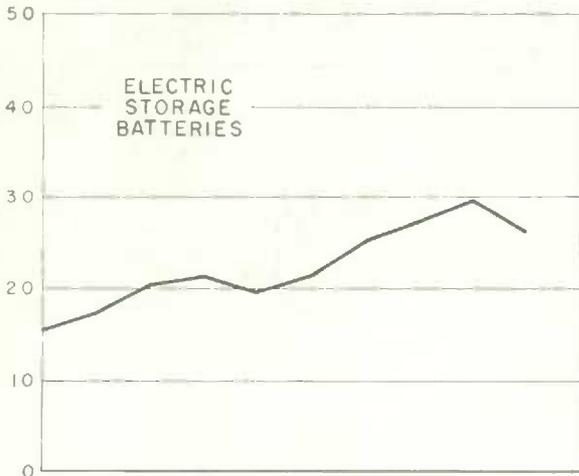
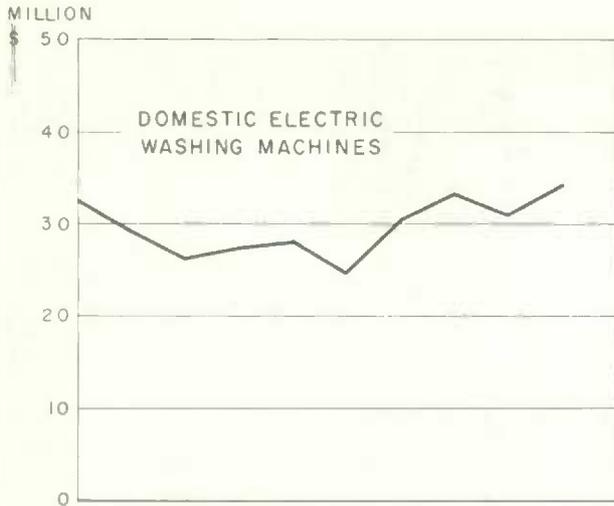
¹ See "Capacitors".

Note: In the Census of Industry the reporting firms are classified to certain industries in accordance with the nature of the main products which they manufacture. Data in this table represent only the output of concerns classified to the Electrical Apparatus and Supplies Industry. The figures for the individual items do not necessarily represent the total output in Canada as these articles may have been produced as minor products by companies which have been classified to other industrial groups. The (x) indicated that the article was made also in other industries. For the total Canadian output of certain major items, see Tables 7 to 38.

TABLE 6. Materials Used in the Electrical Apparatus and Supplies Industry, 1957 and 1958

Material	1957		1958	
	Quantity	Cost at works \$	Quantity	Cost at works \$
Aluminum:				
Castings	lb. 4,654,996	3,091,508	3,709,768	2,546,662
Ingots	" 2,938,457	835,082	..	..
Rods	" 51,125,674	14,933,711	52,614,349	15,054,640
Scrap	" 8,546	1,070	..	..
Sheets and strip	" 6,771,717	3,232,547	9,176,425	4,309,764
Other .....	...	3,074,633	...	2,508,938
Ammonium chloride (sal ammoniac)	lb. 1,596,773	77,230	..	..
Antimony	" 691	213	..	..
Argon	cu. ft. 1,343,758	130,013	..	..
Battery boxes and containers .....	..	5,382,239	..	..
Brass and bronze:				
Castings	lb. 2,822,844	1,818,969	2,360,135	1,621,913
Ingots	" 1,095,346	329,038	..	..
Rods	" 3,359,266	1,582,368	2,467,696	1,102,085
Tubing and pipe	" 299,273	194,248	..	..
Sheets and strip	" 2,807,773	1,520,723	2,792,449	1,371,631
Scrap	" 102,431	25,060	..	..
Other .....	...	1,683,887	...	1,320,836
Carbon plates, blanks, etc. ....	..	450,442	..	324,444
Carbon brushes .....	..	149,890	..	118,648
Carbon electrodes .....	..	188,052	..	..
Chalk or whiting	lb. 1,037,225	23,286	1,101,478	28,768
China-clay (kaolin)	ton 1,515	67,577	2,033	88,009
Copper:				
Castings	lb. 908,813	609,192	..	..
Ingots, slabs, wire bars, etc.	" 3,238,476	1,401,145	..	..
Rods	" 139,925,379	44,314,560	132,503,514	38,207,176
Scrap	" 255,842	136,361	..	..
Sheets and strip	" 2,146,434	1,328,486	3,274,664	1,667,867
Tubing and pipe	" 2,183,332	1,374,084	2,541,705	1,500,294
Wire, bare	" 6,874,691	3,493,132	..	..
Wire, enamelled	" 10,501,824	7,065,221	9,088,012	6,125,230
Wire, other insulated .....	..	8,947,637	..	7,283,055
Other .....	..	1,940,593	..	5,285,999
Cotton and linen sheets, tapes, etc. ....	...	3,249,298	...	3,733,018
Glass bulbs, tubing and cane .....	...	5,159,460	...	4,972,052
Insulating varnishes and japans .....	...	1,423,908	...	1,122,052
Insulating waxes .....	...	702,158	...	...
Insulators, porcelain .....	...	3,497,682	...	2,635,418
Iron and steel (except alloy):				
Pig iron	net ton 3,382	203,919	1,838	112,494
Steel bars and rods	" 21,153	4,479,051	20,854	4,563,262
Steel sheets and strip	" 97,565	17,057,760	117,257	17,501,587
Steel wire	" 22,046	5,048,407	22,470	4,947,741
Structural steel	" 17,718	2,613,847	14,574	2,368,734
Scrap iron and steel	" 3,346	166,941	346	14,100
Other iron and steel .....	...	13,665,722	...	13,571,388
Alloy steel:				
Carbon and alloy tool steel, including high-speed ..	..	191,511	..	..
Stainless .....	..	1,453,100	..	1,349,697
Silicon sheets and strips	net ton 36,928	12,919,744	28,158	10,386,458
Other alloy steel .....	...	616,106	...	1,203,107

PRODUCTION *
IN
CANADA
FROM
ALL INDUSTRIES
OF
SPECIFIED ELECTRICAL
PRODUCTS
1949-1958



* PRODUCTION = SELLING VALUE AT WORKS

TABLE 7. Factory Shipments¹ of Electric Generators and Parts, 1957 and 1958

	Number	Total rating	Selling value at works
1957 ²			
\$			
A.c. generators (except for vehicle and marine use):			
A.c. 200 kva. and under, generators, any speed	9	198	14,843
A.c. 201 kva. to 1000 kva. generators, any speed	20	9,862	163,155
A.c. 1001 kva. and above generators, any speed	47	1,439,862	16,876,636
Accessories and parts for a.c. generators	—	—	935,488
Total	—	—	17,991,620
1958 ²			
A.c. generators (except for vehicle and marine use):			
A.c. 200 kva. and under, generators, any speed	4	203	16,060
A.c. 201 kva. to 1000 kva. generators, any speed	21	9,284	282,167
A.c. 1001 kva. and above generators, any speed	69	2,885,861	26,603,062
Accessories and parts for a.c. generators	—	—	761,129 ³
Total	—	—	27,762,418

¹ Exclusive of automobile generators, engine-driven generator sets and motor-generator sets.

² See also table 8 B.

³ Includes a.c. generators for steam or gas turbo-generators.

TABLE 8 A. Factory Shipments of Electric Motors¹ and Parts, 1957
(from All Industries)

	Number	Total rating	Selling value at works
		h.p.	\$
A.c. motors (except for railway and vehicle use):			
Single phase induction:			
1/3 h.p. and under (except shaded pole or universal motors)	976,516	—	13,618,705
1/2 h.p. and 3/4 h.p.	77,026	—	2,516,546
1 h.p. to 5 h.p. inclusive-open type	14,100	23,610	1,632,845
1 h.p. to 5 h.p. inclusive-enclosed type	951	1,617	128,893
Polyphase induction:			
1/3 h.p. and under	3,703	1,007	111,815
1/2 h.p. and 3/4 h.p.	12,058	7,281	523,769
1 h.p. to 5 h.p. inclusive-open type	22,678	55,592	2,030,361
1 h.p. to 5 h.p. inclusive-enclosed type	9,870	26,252	1,118,524
6 h.p. to 25 h.p. inclusive-open type	6,154	73,904	1,707,872
6 h.p. to 25 h.p. inclusive-enclosed type	5,918	78,718	1,858,105
26 h.p. to 100 h.p. inclusive-open type	2,398	118,658	2,228,969
26 h.p. to 100 h.p. inclusive-enclosed type	1,324	67,226	1,470,389
101 h.p. to 200 h.p. inclusive-open type	515	66,817	1,417,057
101 h.p. to 200 h.p. inclusive-enclosed type	271	37,361	1,384,415
201 h.p. to 1000 h.p. inclusive	457	200,354	4,823,923
1001 h.p. and over			
Synchronous motors and condensers:			
Up to and including 200 h.p. or kva.	38	4,798	179,311
201 h.p. or kva. to 1000 h.p. or kva.	124	64,315	1,051,176
1001 h.p. or kva. and over	39	115,550	1,786,745
Accessories and parts for a.c. motors	—	—	795,871
Railway and vehicle motors, a.c. and d.c.	²	—	²
Shaded pole type motors, all ratings	306,993	—	1,371,269
Universal type motors, all ratings	—	—	³
D.c. motors and generators, including exciters, (except for railway and vehicle use):			
D.c. Motors—1/3 kw. and under	415,294	89,384	1,255,716
1/2 kw. and 3/4 kw.	525	366	79,027
D.c. motors or generators:			
1 h.p. or kw. to 5 h.p. or kw.	450	1,117	114,358
6 h.p. or kw. to 25 h.p. or kw.	181	2,950	205,954
26 h.p. or kw. to 100 h.p. or kw.	252	16,726	1,091,919
101 h.p. or kw. to 200 h.p. or kw.	184	19,825	1,187,926
201 h.p. or kw. to 1000 h.p. or kw.	218	78,340	3,659,744
1001 h.p. or kw. and over	—	—	²
Accessories and parts for d.c. motors and generators	—	—	2,310,449
All other motors or generators	—	—	7,880,736 ³
Total	—	—	59,542,389

See footnotes at end of Table 8B.

TABLE 8B. Factory Shipments of Electric Motors¹ and Parts, 1958
(from All Industries)

	Number	Total rating	Selling value at works
		h.p.	\$
A.c. motors (except for railway and vehicle use):			
Single phase induction:			
1/3 h.p. and under (except shaded pole or universal motors)	991,328	..	13,284,764
1/2 h.p. and 3/4 h.p.	73,789	..	2,219,808
1 h.p. to 5 h.p. inclusive-open type	10,825	19,708	1,130,679
1 h.p. to 5 h.p. inclusive-enclosed type	1,193	2,351	143,818
Polyphase induction:			
1/3 h.p. and under	3,745	1,247	123,820
1/2 h.p. and 3/4 h.p.	8,552	5,166	384,402
1 h.p. to 5 h.p. inclusive-open type	16,142	42,027	1,331,849
1 h.p. to 5 h.p. inclusive-enclosed type	7,255	19,698	759,323
6 h.p. to 25 h.p. inclusive-open type	4,179	50,975	912,265
6 h.p. to 25 h.p. inclusive-enclosed type	4,429	60,198	1,213,200
26 h.p. to 100 h.p. inclusive-open type	1,536	75,396	1,206,329
26 h.p. to 100 h.p. inclusive-enclosed type	1,256	61,385	1,181,240
101 h.p. to 200 h.p. inclusive-open type	324	48,660	940,902
101 h.p. to 200 h.p. inclusive-enclosed type	139	25,115	519,503
201 h.p. to 1000 h.p. inclusive	360	170,450	3,085,980
1001 h.p. and over			
Synchronous motors and condensers:			
Up to and including 200 h.p. or kva.	14	1,726	52,267
201 h.p. or kva. to 1000 h.p. or kva.	44	26,250	610,342
1001 h.p. or kva. and over	14	29,450	377,618
Accessories and parts for a.c. motors	—	—	580,747
Railway and vehicle motors, a.c. and d.c.	—	—	2
Shaded pole type motors, all ratings	187,283	..	1,029,257
Universal type motors, all ratings	—	..	2
D.c. motors and generators, including exciters, (except for railway and vehicle use):			
D.c. motors — 1/3 kw. and under	377,290	117,869	1,265,780
1/2 kw. and 3/4 kw.	222	135	43,157
D.c. motors or generators:			
1 h.p. or kw. to 5 h.p. or kw.	363	697	125,688
6 h.p. or kw. to 25 h.p. or kw.	344	5,340	559,781
26 h.p. or kw. to 100 h.p. or kw.	426	25,457	1,383,668
101 h.p. or kw. to 200 h.p. or kw.	45	6,960	464,193
201 h.p. or kw. to 1000 h.p. or kw.	80	39,555	1,873,540
1001 h.p. or kw. and over	—	—	2
Accessories and parts for d.c. motors and generators	—	—	502,616
All other motors or generators	—	—	7,491,873 ³
Total	—	—	44,798,409

¹ Electric motors and/or generators as indicated.

² Included with "All other motors or generators".

³ Includes rotors and stators.

TABLE 9. Factory Shipments of Transformers, by Types, 1957 and 1958

Type	1957		
	Number	Total rating k.v.a.	Selling value at works \$
Distribution transformers—Dry type up to and including 200 kva., 1 phase or up to and including 225 kva., 3 phase— 15,000 volts and below, except dry type transformers 2 kva. and below	14,586	296,294	4,273,208
Distribution transformers—Liquid filled type, up to and including 200 kva., 1 phase, or up to and including 225 kva. 3 phase; 15 kv. and below	54,505	1,083,443	14,836,233
Power transformers 7,500 kva. and less, up to and including 138 kv. class	2,014	2,380,276	15,742,616
Power transformers above 7,500 kva. at all voltages, also all kva. ratings in voltages above 138 kv. class	269	7,776,165	22,648,812
Feeder regulators—Single phase step voltage regulators	286	97,392	2,134,418
Three phase step voltage regulators with 750 kva. of regulation or less			
Induction voltage regulators			
Current transformers—Up to and including 15,000 volts	29,996	—	2,144,648
Above 15,000 volts			
Potential transformers—Up to and including 15,000 volts	6,763	—	1,012,236
Above 15,000 volts			
Metering outfits (combination of current and potential transformers in one enclosure)—Up to and including 15,000 volts	682	—	690,511
Above 15,000 volts			
Constant current transformers (street lighting)	1	—	1
Series lamp transformers	1	—	1
Luminous tube transformers	46,189	—	646,197
Ignition transformers (oil and gas)	119,699	—	1,052,087
Radio and TV transformers—Air core	1,188,437	—	182,028
Powdered iron and therite core	2,874,262	—	1,380,974
Laminated core	1,899,587	—	2,058,939
Transformers for electronic equipment (other than radio and TV)	148,513	—	1,010,378
Variable radio transformers	1	—	1
Fluorescent transformers and ballasts	1,150,746	—	4,406,288
Mercury lamp transformers	1	—	1
Bell ringing and chime transformers	1	—	1
Control and signalling transformers	38,031	—	400,186
General purpose dry type transformers, up to and including 2 kva. ...	1	—	1
All other transformers	—	—	3,243,981
Parts and supplies for transformers	—	—	2,100,326
Total	—	—	79,964,066
	1958		
Distribution transformers—Dry type up to and including 200 kva. 1 phase or up to and including 225 kva., 3 phase— 15,000 volts and below, except dry type transformers 2 kva. and below	6,815	172,176	2,394,621
Distribution transformers—Liquid filled type, up to and including 200 kva., 1 phase, or up to and including 225 kva. 3 phase; 15 kv. and below	57,322	1,162,685	12,457,344
Power transformers 7,500 kva. and less, up to and including 138 kv. class	1,409	2,016,519	11,010,366
Power transformers above 7,500 kva. at all voltages, also all kva. ratings in voltages above 138 kv. class	167	6,671,957	15,857,430

1 Included in "All other transformers".

TABLE 9. Factory Shipments of Transformers, by Types, 1957 and 1958 — Concluded

Type	1958		
	Number	Total rating kva.	Selling value at works \$
Feeder regulators — Single phase step voltage regulators	248	50,773	1,104,539
Three phase step voltage regulators with 750 kva. of regulation or less			
Induction voltage regulators			
Current transformers — Up to and including 15,000 volts	42,652	..	1,746,550
Above 15,000 volts			
Potential transformers — Up to and including 15,000 volts	6,367	..	886,911
Above 15,000 volts			
Metering outfits (combination of current and potential transformers in one enclosure) — Up to and including 15,000 volts	560	..	695,023
Above 15,000 volts			
Constant current transformers (street lighting)	1	—	1
Series lamp transformers	1	—	1
Luminous tube transformers	43,358	..	553,832
Ignition transformers (oil and gas)	148,155	..	996,998
Radio and TV transformers — Air core	587,685	..	238,781
Powdered iron and therite core	4,198,230	..	1,714,744
Laminated core	2,241,581	..	2,307,152
Transformers for electronic equipment (other than radio and TV)	125,004	..	1,091,368
Variable ratio transformers	—	..	1
Fluorescent transformers and ballasts	—	..	1
Mercury lamp transformers	26,659	..	861,882
Bell ringing and chime transformers	—	—	1
Control and signalling transformers	39,215	—	318,651
General purpose dry type transformers, up to and including 2 kva... All other transformers	—	—	8,379,377
Parts and supplies for transformers	—	—	1,630,468
Total	—	—	64,246,037

¹ Included in "All other transformers".

TABLE 10. Factory Shipments of Conduit for Electrical Wiring, 1957 and 1958

Item	1957		1958	
	Quantity	Selling value at works \$	Quantity	Selling value at works \$
Rigid conduit:				
Steel and non-ferrous	49,551,279 lb.	8,573,370	42,593,510	7,241,192
Electrical metallic tubing, steel and non-ferrous	7,930,098 "	1,765,247	8,944,757	1,862,904
Flexible conduit (steel and non-metallic)	1,724,000 ft.	162,000	..	213,744
Total	—	10,500,617	—	9,317,840

**TABLE 11. Factory Shipments of Electrical Switch Gear and Protective Equipment
(except Telephone Switchboards), 1957 and 1958**

Item	Selling value at works	
	1957	1958
	dollars	
Switchgear assemblies:		
Metalclad switchgear, 5 kv. and 15 kv. with drawout oil circuit breakers	4,638,171 ^f	3,765,481
Metalclad switchgear, 5 kv. and 15 kv. with drawout oilless circuit breakers (includes air and airblast breakers)	7,011,608 ^f	6,635,082
600 volt metal-enclosed switchgear (drawout or fixed breakers, but not includ- ing moulded case breakers)	3,594,769	2,843,681
Control desks, duplex and open switchboards and supervisory control	3,885,095 ^f	3,786,668
Other switchgear assemblies including cubicles, cubicle switchgear, bus trough (except 600 volts) station type cubicle switchgear, fusegear (over 600 volts) etc., but not including capacitor assemblies	4,463,659	4,008,011
Power circuit breakers (sold apart from assemblies and not including sectional- izers or reclosers)—Indoor oil or oilless circuit breakers	1,384,779	904,104
Outdoor oil circuit breakers	6,466,369	5,279,167
Outdoor oilless circuit breakers	1,252,242	1,651,083
Low voltage air circuit breakers (sold apart from assemblies but not including moulded case breakers)	1,471,223	1,004,230
Disconnecting switches—Indoor type	705,991	352,684
Outdoor type	5,136,904	4,582,067
Lightning arresters—15 kv. and under	927,780	482,186
Over 15 kv.	396,574	598,102
Power capacitors—Units (sold apart from assemblies)	1	1
Assemblies (including units)	1	1
Low voltage switchboards (fused or circuit breaker types)	2,502,505	2,203,357
Distribution, lighting and residential panelboards (with fuses or moulded case circuit breakers)	5,593,049	5,404,927
Industrial and residential enclosed safety switches and circuit breakers	5,220,405	6,139,982
Miscellaneous cabinets, wireways, gutters, surface raceways (excluding conduit and metallic tubing) and bus ducts including feeder, plug and trolley types	2,872,419	2,363,013
Oil circuit reclosers and sectionalizers, up to and including 15,000 volts and re- pair parts	1	1
Potheads	1	1
Other switchgear and protective equipment	10,474,695	10,166,659
Total	67,998,237	62,170,484

^f Included with "Other".

TABLE 12. Production¹ of Electric Vacuum Cleaners and Parts, 1949-58 (from All Industries)

Year	Floor models		Cylinder models		Hand models		Attachments and parts		Total	
	Number	Value	Number	Value	Number	Value	Number	Value	Number	Value
		\$		\$		\$		\$		\$
1949	34,308	1,985,022	106,952	5,021,712	..	..	—	1,105,210 ²	—	8,111,944
1950	43,075	2,337,136	109,395	5,161,920	..	..	—	1,271,363 ²	—	8,770,419
1951	39,170	2,121,966	90,837	5,587,627	5,145	93,420	—	1,114,719	—	8,917,732
1952	41,323	2,380,470	85,587	5,059,012	2,828	59,618	—	1,156,332	—	8,655,432
1953	37,126	2,239,354	70,833	4,334,187	7,705	137,497	—	1,211,414	—	7,922,452
1954	22,801	1,523,306	88,381	4,752,451	5,435	119,772	—	967,785	—	7,363,314
1955	19,795	1,341,000	125,711	6,832,000	—	—	—	1,008,000 ²	—	9,181,000
1956	20,727	1,541,838	145,621	8,105,948	—	—	—	529,668 ²	—	10,347,454
1957	22,516	1,681,140	126,252	7,052,463	—	—	—	372,343 ²	—	9,105,946
1958	25,310	1,741,337	132,201	8,048,856	..	..	..	251,492 ²	..	10,041,685

¹ Factory shipments since 1952.

² Includes hand models.

TABLE 13. Factory Shipments of Dry Cell Batteries, 1957 and 1958

Type		Quantity	Selling value at works
			\$
1957			
Dry cell:			
6-inch batteries	No. of cells	1,749,956	1,054,455
Radio batteries for portable sets	" "	18,720,528	867,839
Radio batteries for non-portable sets	" "	19,431,552	1,686,039
Flashlight batteries	" "	33,865,528	3,613,943
Hearing-aid batteries:			
"A" batteries		}	791,926
"B" batteries			
All other dry batteries			
Total		-	8,014,202
1958			
Dry cell:			
6-inch batteries	No. of cells	1,577,144	968,945
Radio batteries for portable sets	" "	23,492,198	1,114,242
Radio batteries for non-portable sets	" "	17,703,723	1,495,927
Flashlight batteries	" "	29,257,106	3,298,357
Hearing-aid batteries:			
"A" batteries		}	83,172
"B" batteries			
All other dry batteries		..	1,251,948
Total		-	8,212,591

TABLE 14. Factory Shipments of Electric Storage Batteries, by Types, 1957 and 1958

Type	1957		1958	
	Number	Selling value at works	Number	Selling value at works
		\$		\$
For internal combustion engine starting and ignition	2,273,713	23,898,359	2,235,253	21,516,473
For farm lighting plants (cells)	21,145	229,161	19,392	264,424
For railway service (cells)	34,471	1,422,602	27,499	1,062,621
For direct motive power (industrial trucks, mine locomotives, etc.)	2,507	2,094,509	2,586	1,778,573
For all other purposes	-	2,237,647	..	1,787,678
Total	-	29,882,278	..	26,409,769

TABLE 15. Production¹ of Complete Radio Receiving Sets, 1949-58

Year	Number of sets	Selling value at works	Year	Number of sets	Selling value at works
		\$			\$
1949	791,051	29,411,911	1954	487,620	16,509,275
1950	820,772	33,497,785	1955	621,957	19,176,618
1951	628,395	29,635,311	1956	740,656	23,877,863
1952	567,738	22,178,626	1957	732,827	25,642,898
1953	737,457	28,021,087	1958	745,318	25,510,943

¹ Factory shipments since 1952.

TABLE 16. Production¹ of Television Sets, 1949 - 58

Year	Number	Selling value at works	Year	Number	Selling value at works
		\$			\$
1949	9,189	2,010,271	1954	611,206	105,682,414
1950	32,971	7,764,952	1955	806,253	130,497,108
1951	48,657	12,902,090	1956	613,895	94,506,905
1952	141,946	30,072,795	1957	434,504	68,012,547
1953	391,974	81,304,912	1958	432,318	67,669,153

¹ Factory shipments since 1952.

TABLE 17. Production¹ of Radio and Television Receiving Tubes, 1949 - 58 and Television Picture Tubes, 1958

Year	Radio and television receiving tubes		Television pictures tubes (including rebuilds)	
	Number	Selling value at works	Number	Selling value at works
		\$		\$
1949	4,682,943	2,787,421	..	..
1950	8,181,925	4,964,463	..	..
1951	9,976,801	5,215,684	..	..
1952	7,221,495	4,672,927	..	..
1953	12,803,162	8,476,680	..	..
1954	11,368,561	6,608,481	..	..
1955	15,054,395	8,990,760	..	..
1956	15,777,865	10,291,750	..	..
1957	16,067,839	11,271,142	..	..
1958	18,405,297	13,723,605	531,901	10,535,191

¹ Factory shipments since 1952.

TABLE 18. Production¹ of Flat Irons, 1949 - 58

Year	Steam		Automatic		Non-automatic		Total	
	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works
		\$		\$		\$		\$
1949	²	²	322,060	2,245,242	145,186	401,715	467,246	2,646,957
1950	²	²	387,657	2,815,299	130,257	391,252	517,914	3,206,551
1951	108,824	1,167,633	235,885	1,583,904	108,511	347,844	453,220	3,099,381
1952	107,181	1,135,245	234,535	1,494,987	92,029	286,489	433,745	2,916,721
1953	160,478	1,666,554	252,306	2,350,136	69,444	217,026	482,228	4,233,716
1954	234,624	2,509,362	207,620	1,410,704	54,724	168,614	496,968	4,088,680
1955	330,791	3,347,053	202,299	1,250,161	65,351	180,000	598,411	4,777,214
1956	424,084	4,332,043	141,086	853,182	46,681	161,366	611,851	5,346,591
1957	356,714	3,865,572	134,789	828,962	33,346	115,853	524,849	4,810,387
1958	323,823	3,399,922	96,000	571,538	30,314	102,262	450,137	4,037,722

¹ Factory shipments since 1952.

² Breakdown not available.

TABLE 19. Production¹ of Electric Toasters, 1949 - 58

Year	Domestic automatic		Domestic, non-automatic		Domestic, sandwich ²		Other ³		Total	
	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works
		\$		\$		\$		\$		\$
1949	53,885	756,764	261,928	1,182,910	67,263	447,593	1,021	29,048	384,097	2,416,315
1950	52,424	686,852	228,021	869,703	46,225	267,508	258	10,605	326,928	1,834,668
1951	39,031	591,031	168,576	716,763	33,667	197,860	793	42,724	242,067	1,548,378
1952	26,718	476,225	127,617	462,441	41,473	241,606	2,392	77,137	198,200	1,257,409
1953	134,146	1,903,442	114,775	328,225	54,477	274,388	2,646	16,012	306,044	2,522,067
1954	159,878	2,259,324	110,455	301,333	38,623	183,271	275	12,906	309,231	2,756,834
1955	191,558	2,602,882	110,280	284,403	40,111	176,996	199	13,176	342,148	3,077,457
1956	230,387	3,099,672	94,088	224,276	49,712	214,639	274	15,770	374,461	3,554,357
1957	193,411	2,567,346	71,983	149,667	58,830	233,586	107	3,373	324,331	2,953,972
1958	202,087	2,579,355	64,151	134,476	45,317	194,265	90	1,816	311,645	2,909,912

¹ Factory shipments since 1952.² Does not include waffle-iron sandwich toaster combination.³ Includes commercial type.TABLE 20. Production¹ of Incandescent Electric Lamps (Bulbs), 1949 - 58

Year	Standard size		Miniature size ²		Photo flash	
	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works
		\$		\$		\$
1949	54,793,834	7,823,042	34,380,250	2,253,262	..	..
1950	70,668,414	10,858,991	32,418,426	2,512,041	..	..
1951	60,499,640	9,715,612	33,506,684	2,461,287	..	..
1952	65,978,887	10,963,303	21,657,619	1,967,531	9,228,384	1,067,828
1953	77,421,515	12,217,077	30,885,185	2,668,048	15,071,759	1,559,285
1954	76,193,807	12,088,636	31,422,200	2,591,966	20,057,249	1,914,080
1955	81,598,979	12,380,118	41,761,596	3,833,266	25,770,117	2,428,869
1956	77,555,258	11,806,686	42,054,707	4,178,441	30,939,849	2,581,471
1957	84,293,334	13,065,758	38,996,962	4,815,420	42,796,802	3,360,521
1958	79,925,134	12,618,350	36,668,275	5,407,674	41,256,847	3,300,231

¹ Factory shipments since 1952.² All types, including Christmas tree, flashlight, automobile, etc.

TABLE 21. Production¹ of Fluorescent Electric Lamps (Bulbs), 1949 - 58

Year	Number	Selling value at works
		\$
1949	5,359,484	3,383,134
1950	5,138,552	4,110,949
1951	5,262,530	3,252,267
1952	4,098,522	2,817,174
1953	4,882,012	3,598,998
1954	4,203,105	3,109,279
1955	5,005,823	3,561,358
1956	5,799,172	4,377,750
1957	6,909,317	5,567,803
1958	7,098,152	5,684,156

¹ Factory shipments since 1952.

TABLE 22. Factory Shipments of Electrical Wires and Cables, 1957 and 1958 (from All Industries)

Item	1957	1958
	Value of factory shipments	Value of factory shipments
	dollars	
Telephone cables — Exchange	21,747,055	20,006,770
Toll and toll entrance	533,524	3,195,393
Telephone wires, insulated (drop wires, inside wires, other telephone wires)	6,690,175	6,102,458
Telephone switchboard wires and cables	7,234,646	6,074,641
Television and radio wires and cables	1,615,710	1,334,044
Accessory material for telephone cables	70,210	151,542
Telephone cordage	861,558	790,173
Bare wires and cables (other than copperweld and aluminum)	8,584,363	6,776,029
Bare copperweld wires and cables and copperweld-copper strands	1,163,127	857,564
Bare ACSR and aluminum wires and cables	17,733,365	17,984,726
Magnet wires and annunciator wires and cables	14,034,861	11,904,873
Weatherproof wires	8,122,471	5,594,984
Power cables (copper or aluminum conductors)	15,586,483	9,738,322
Signal and control cables	2,877,675	2,388,028
Portable and power supply cables	4,817,337	2,413,479
Building wires — Non-metallic sheathed cables	8,692,044	9,475,353
Flexible armoured building cables	5,104,254	5,749,787
Other building wires (exclusive of types covered by preceding two items)	16,388,769	13,733,607
Flexible cords and fixture wires	3,805,943	4,192,771
Service and service entrance cables	1,551,394	2,139,533
Rubber-insulated and plastic-insulated wires and cables — general	4,111,719	3,101,435
Other wires and cables	2,519,145	3,106,611
Total	153,845,828	136,812,123

TABLE 23. Factory Shipments of Stoves Made in Canada, 1956-58
(Data Assembled from All Industries)

		1956	1957	1958
Coal, wood and sawdust-burning cooking stoves and ranges, including ranges with gas or electric extension	No.	26,960	18,562	15,934
	\$	2,519,517	1,783,729	1,711,519
Coal, wood and sawdust-burning heating stoves and space-heaters, including all heaters, circulators, Quebec, box, oak, Franklin, globular and laundry	No.	45,427	40,483	32,789
	\$	730,228	740,979	542,753
Solid fuel and gas combination or oil and gas combination (not including stoves or ranges with gas extension)	No.	9,859	7,746	6,701
	\$	1,912,569	1,655,862	1,498,945
Solid fuel and electric combination or oil and electric combination (not including stoves or ranges with electric extension)	No.	9,639	8,604	7,714
	\$	2,122,177	2,066,892	1,871,042
Gas cooking stoves and ranges (not combinations), including all styles with ovens	No.	35,991	35,077	37,729
	\$	4,137,097	4,489,456	5,086,643
Gas heating stoves and space-heaters	No.	4,284	14,295	15,604
	\$	264,198	496,606	640,393
Gas cooking plates—no oven	No.	4,228	16,817	12,179
	\$	46,479	116,157	97,069
Electric cooking stoves or ranges (over 35 amperes), all styles with ovens	No.	217,159	194,178	226,079
	\$	33,225,480	30,336,566	33,727,324
Electric rangettes, including cord attachment and oven as one unit	No.	36,756	21,129	25,610
	\$	1,358,324	891,876	1,028,761
Electric cooking plates and grills, including stoves for glass coffee-makers	No.	203,285	146,962	125,119
	\$	892,045	755,744	693,478
Oil (kerosene) and gasoline cooking stoves and ranges	No.	..	..	..
	\$
Oil (kerosene) and gasoline heating stoves and space-heaters	No.	..	..	..
	\$
Fuel oil (distillate) cooking stoves and ranges	No.	12,477	9,972	7,609
	\$	1,790,140	1,358,152	1,127,231
Fuel oil (distillate) heating stoves and space-heaters	No.	71,973	72,050	53,366
	\$	3,469,232	3,573,470	2,847,850
Total		—	—	—

TABLE 24. Production of Electric Welding Apparatus and Welding Rod,¹ 1949-58

Year	Welding apparatus		Welding rod ²	
	Electric arc welding equipment with controls	Other electric welding apparatus ³	Quantity	Value of sales
	\$	\$	tons	\$
1949	740,797	243,107	9,277	2,399,825
1950	894,397	108,406	10,436	2,708,819
1951	1,384,136	100,108	11,183	3,344,755
1952	1,494,781	272,015	16,597	5,459,228
1953	1,584,937	2,253,992	12,919	3,728,495
1954	1,213,051	1,530,201	11,926	3,634,811
1955	1,546,582	1,837,222	15,100	4,800,000
1956	2,324,099	3,215,817	20,230	6,823,000
1957	2,426,261	1,738,617	20,199	7,675,440
1958	1,816,938	1,176,631	18,474	7,436,477

¹ Includes both gas and electric welding rod of ferrous type only.

² Factory sales.

³ Includes "Resistance welding equipment with controls".

TABLE 25. Factory Shipments of Industrial Control Equipment, 1957 and 1958

Item	Value of factory shipments	
	1957	1958
	dollars	
Industrial Control:		
Traction control - Railway and mine locomotive, trolley coach, street car and self-propelled battery operated lift trucks	1	1
A.c. and d.c. full voltage manual starters (A.c. single and polyphase) (600 v. max.)	1,210,932	988,467
A.c. full voltage magnetic starters for single-and multi-speed squirrel cage motors. (600 v. max. sizes 0-7)	4,368,955	3,519,560
A.c. multi-pole magnetic contactors (600 v. max. sizes 0-7). a.c. and d.c. multi-pole industrial control relays (except thermal overload relay heaters when sold separately)	974,364	883,544
A.c. reduced voltage manual controllers (auto-transformer, resistor, reactor, wye-delta, part winding etc., (600 v. max.) (except synchronous-and wound rotor-motor controllers)	910,722	152,963
A.c. control centres (factory assembled groups of combination magnetic switches-600 v. max.)	4,704,701	3,565,180
A.c. high voltage controllers, classes E1 and E2 (all high voltage induction and synchronous motor controllers which include short-circuit interrupters of ten times the controller rating)	2,633,723	1,426,512
Synchronous controllers (other than those included in item directly above)	304,731	130,032
A.c. drives (mine hoists, paper-machine drives, liquid rheostats, except package adjustable voltage drives)	1	1
All other a.c. magnetic control, (magnetic controllers and contractors, not otherwise included, for machine tools, cranes, hoists, wound rotor motors, fire-pumps, etc. all voltages) (except package adjustable voltage drives)	1,354,023	1,681,181
D.c. low voltage, magnetic contactors and controllers for timestarters and control of cranes, hoists, machine tools, single-motor mill auxiliaries, etc. (except d.c. drives, package adjustable voltage drives, and a.c. magnetic contactors with d.c. coils)	803,505	513,554
D.c. drives (steel mill, paper-machine, rubber mill and mine hoist drives, including static electronic and semi-conductor rectifier drives, except package adjustable voltage drives)	1	1
A.c. and d.c. from-and cam-switches, controllers, dial starters and rheostats, and all motor starting resistors supplies for separate mounting (except starting resistors which are an integral part of a magnetic controller)	633,133	414,782
A.c. and d.c. brakes	449,795	303,715
Pilot control, pushbuttons and stations, limit-, pressure-, temperature-, liquid-level-, and plugging-switches, solenoids, terminal blocks. (except modification kits for linestarters, and pilot devices for appliances, air-conditioners, refrigerators, and heating and domestic installations)	2,006,789	1,735,780
Electronic controls, electronic relays, photo-electric controllers, resistance-welding control, voltage, load and speed control (except a.c. and d.c. drives and electronic control panels for industrial applications)	1	1
Renewal parts, repair and modification kits, overload relay heaters sold separately	3,802,387	1,746,918
All other industrial control	7,417,817	7,125,805
Total	31,575,577	24,187,993

¹ Included with "All other".

TABLE 26. Factory Shipments of Domestic Water-tank Heaters, 1957 and 1958 (from all Industries)

	1957		1958	
	Number	Value of factory shipments	Number	Value of factory shipments
		\$		\$
Cast iron, for coal, wood or oil (120 gallons or less)	520	47,697	988	151,318
Gas, automatic	43,013	2,851,537	81,725	5,911,895
Gas, not automatic	9,979	447,956	8,339	354,433
Electric, circulating type	21,139	158,727	23,518	140,164
Electric, immersion type	228,978	594,513	289,285	704,824
Clamp-on-type	11,867	55,560	12,966	61,653
Electric, automatic storage tank type, including tank and controls	60,701	4,024,437	85,281	5,508,107
Total	376,197	8,180,427	502,102	12,832,394

TABLE 27. Production¹ of Household Mechanical Refrigerators,² 1949-58

Year	Number	Selling value at works	Year	Number	Selling value at works
		\$			\$
1949	206,185	36,736,492	1954	229,964	44,037,931
1950	341,596	66,225,801	1955	271,532	49,548,437
1951	278,036	54,524,690	1956	269,213	47,443,340
1952	244,433	46,046,709	1957	235,539	42,429,856
1953	275,415	50,943,211	1958	226,523	39,759,101

¹ Factory shipments since 1952.² Complete units (electric and gas), all sizes.

TABLE 28. Factory Shipments of Refrigeration Equipment, 1957 and 1958 (from All Industries)

Type	1957		1958	
	Number	Selling value at works	Number	Selling value at works
		\$		\$
Household refrigerators:				
Household mechanical refrigerators, complete units (electric and gas), all sizes	235,539	42,429,856	226,523	39,759,101
Self-contained units:				
Milk coolers, all sizes	375	87,532	529	94,067
Ice-cream cabinets, all sizes	2,322	867,343	1,086	370,525
Beverage coolers, all sizes	5,852	1,510,965	3,720	1,174,628
Water-coolers, all sizes	68	34,186	40	19,624
Freezers - Frosted food cabinets	8	8,434	1,870	384,290
Home freezers, all sizes	20,908	4,619,438	31,685	6,713,992
Fixtures:				
Display cases, normal temperature	2,637	1,750,326	2,202	1,750,399
Low-temperature refrigerators	687	643,440	829	763,282
Reach-in refrigerators (remote only)	251	172,487	433	270,857
Sectional walk-in coolers, all types	763	963,441	852	1,023,891
Self-contained commercial refrigerator products:				
Display cases, all sizes	1,686	1,166,993	698	753,739
Reach-ins, all sizes	584	335,406	546	314,305
Evaporators:				
Unit cooler type, all sizes	-	349,985	..	526,166
Fin coils, all sizes	-	431,119	..	481,640
Ice-makers - Domestic	-	16,366	..	6,514
All other sizes	-	18,330	..	4,549
Compressors and condensing units:				
Domestic, for assembly in individual household cabinets	35,123	1,588,759	48,212	1,472,600
Commercial - Low pressure	3,013	607,497	3,139	1,141,991
Ammonia	-	-	-	-
Evaporative condensers:				
Low pressure	-	916,855	..	190,846
Ammonia	-	-	..	24,945
All other refrigeration equipment	-	7,556,397	..	5,505,498
Total	-	66,075,155	-	62,747,449

TABLE 29. Factory Shipments of Cutouts and Fuses, 1957 and 1958

Type	Selling value at works	
	1957	1958
	dollars	
Open, semi-enclosed and enclosed distribution cutouts (601 volts and above), indoor and outdoor fused disconnect switches including porcelain housed, removable switch blades for use therewith (not including fuse links therefore) and repair parts	1,598,216	1,438,822
Fuse links for distribution cutouts	392,847	307,991
Oil fuse cutouts including fuse links therefore and repair parts	1	1
Power fuses (solid material type) - Up to and including 600 volts	672,176	538,149
Power fuses 601 volts and above (solid material and current limiting types), fuse supports, fuse mountings and repair parts		
Fuse links for power fuses 601 volts and above (solid material and current limiting types)	1	1
Cartridge fuses	1,055,231	1,556,960
Plug fuses		
Individual cutouts for cartridge and plug fuses	176,990	193,602
All other fuses	185,523	222,342
Renewal elements for cartridge fuses	1	1
Total	4,080,983	4,257,866

¹ Included in "all other fuses".

TABLE 30. Factory Shipments of Electric Lighting, Fixtures 1957 and 1958 (from all Industries)

Type	Selling value at works	
	1957	1958
	dollars	
Residential:		
Incandescent	4,966,000	5,923,000
Fluorescent	578,000	1,567,000
Commercial and industrial:		
Incandescent	3,683,000	3,190,000
Fluorescent	17,600,000	16,136,000
Street-lighting	4,131,000	4,133,000
Searchlights and floodlights	1,368,000	1,670,000
Other lighting equipment ¹	2,772,000	3,425,000
Total	35,098,000	36,044,000

¹ Does not include floor lamps or table lamps.

TABLE 31. Factory Shipments of Wiring Devices, 1957 and 1958

Type	Selling value at works	
	1957	1958
	dollars	
Incandescent sockets (lamp holders) - Metal shell	322,362	446,022
Porcelain, plastic, rubber and others	977,343	1,208,267
Fluorescent sockets (lampholders) all types	421,323	400,426
Switches - Surface and flush types (except switches enclosed safety type)	1,657,293	1,576,375
- Appliance	1,629,012	1,504,030
- Canopy, pendant and all others	67,839	84,269
Receptacles (convenience outlets) single and duplex	1,315,849	1,645,791
Wall plates for switches and outlets	417,453	415,153
Attachment plugs, caps and cord connectors	643,474	275,938
Heater (or appliance) plugs	91,599	177,873
Current taps and attachment plugs		
Cord sets (all types)	1,604,470	1,470,946
Outlet and switch boxes including covers	3,032,037	1
Outlet box connectors for armoured and non-metallic sheathed cable	1,152,796	1
Other wiring devices (except automobile starting switches and time switches)	4,096,862	3,703,580
Total	17,429,712	12,908,670

¹ Included with "Conduit and fittings" in 1958.

TABLE 32. Factory Shipments of Converter Equipment, 1957 and 1958

Type	Number	Total rating	Selling value at works
		kv.	\$
1957			
Motor-generator sets—A.c. to d.c.	334	54,984	4,594,524
Frequency changer sets—A.c. to a.c.	—	—	84,962
Mercury arc and metallic rectifiers for power purposes	—	—	2,017,880
Parts and supplies for converter equipment	—	—	556,057
Total	—	—	7,253,423
1958			
Motor-generator sets—A.c. to d.c.	214	105,424	2,210,404
Frequency changer sets—A.c. to a.c. ....	..	..	94,147
Mercury arc and metallic rectifiers for power purposes .....	..	..	1,315,565
Parts and supplies for converter equipment .....	..	..	329,593
Total	—	—	3,949,709

TABLE 33. Production¹ of Pole Line Hardware, 1949-58 (from All Industries)

Year	Selling value at works	Year	Selling value at works
	\$		\$
1949	6,987,494	1954	8,065,000
1950	6,395,063	1955	9,130,000
1951	9,339,000	1956	11,888,000
1952	10,213,000	1957	11,988,000
1953	8,169,000	1958	12,303,000

¹ Factory shipments since 1952.

TABLE 34. Production¹ of Domestic Washing Machines, 1949-58 (from All Industries)

Year	Hand		Electric				Gasoline		Total	
			Automatic		Conventional ²		Number	Selling value at works	Number	Selling value at works
	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works				
		\$		\$		\$		\$		\$
1949	3,906	68,537	3	3	304,273	27,957,728	38,075	4,475,176	346,254	32,501,441
1950	2,559	40,228	30,310	4,344,593	252,926	22,815,441	15,323	1,961,979	301,110	29,162,241
1951	382	6,672	26,951	5,409,527	198,149	19,611,547	11,248	1,418,120	236,730	26,445,866
1952	641	12,915	26,523	4,985,666	216,235	21,293,150	10,184	1,255,334	253,538	27,547,065
1953	1	22	26,427	5,149,210	211,278	21,747,767	10,118	1,164,607	247,824	28,061,606
1954	—	—	27,629	5,448,977	192,198	18,780,608	6,411	712,684	226,238	24,942,269
1955	—	—	36,782	7,136,332	237,600	22,765,765	5,420	622,432	279,802	30,524,529
1956	—	—	49,765	9,292,117	250,879	23,552,620	5,278	636,245	305,922	33,480,982
1957	—	—	52,569	10,313,242	220,632	20,283,254	3,546	414,987	276,747	31,011,483
1958 .....	...	...	60,326	11,983,936	234,200	21,800,798	3,686	422,006	298,212	34,206,740

¹ Factory shipments since 1952.

² Includes apartment size which amounted to 2,751 units valued at \$145,261 in 1951; 3,107 units valued at \$169,858 in 1952; 1,896 units valued at \$107,768 in 1953; 638 units valued at \$37,028 in 1954; 802 units valued at \$49,750 in 1955; 473 units valued at \$45,124 in 1956, 86 units valued at \$9,600 in 1957 and none in 1958.

³ Production of automatic type prior to 1950 has been included with conventional type to avoid disclosing figures for individual companies.

TABLE 35. Production¹ of Domestic Electric Ironing Machines, 1949-58 (from All Industries)

Year	Number	Selling value at works	Year	Number	Selling value at works
		\$			\$
1949	18,058	1,349,433	1954	6,020	530,035
1950	19,129	1,527,938	1955	3,900	367,000
1951	10,342	895,429	1956	4,647	380,000
1952	12,316	906,010	1957	2,740	310,000
1953	11,112	886,979	1958	1,754	230,000

¹ Factory shipments since 1952.**TABLE 36. Production of Miscellaneous Electrical Appliances, 1956-58**

Item	1956		1957		1958	
	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works
		\$		\$		\$
Heating pads	174,453	563,875	144,277	499,245	144,237	494,160
Clothes dryers, automatic	55,389	7,743,393	65,950	9,191,492	81,868	10,693,460
Floor polishers	214,026	6,731,694	205,525	6,559,657	218,747	6,743,615
Coffee makers, domestic	137,687	1,348,719	131,049	1,510,628	108,312	1,301,567
Kettles	328,898	2,145,943	330,065	2,176,199	343,982	2,320,366
Fry pans	337,938	3,840,210	339,070	3,910,672	307,752	3,523,144
Fans:						
Portable	217,779	2,181,778	164,337	1,547,071	164,334	1,548,796
All other	13,316	763,979	15,303	491,041	20,489	529,989

TABLE 37. Production¹ of Watt-hour Meters, 1949-58

Year	Quantity	Selling value at works	Year	Quantity	Selling value at works
	No.	\$		No.	\$
1949	597,500	7,204,878	1954	434,169	7,368,439
1950	488,932	6,668,164	1955	471,354	7,053,000
1951	509,752	7,211,494	1956	534,742	8,019,000
1952	391,232	6,190,325	1957	469,188	7,951,000
1953	411,523	6,936,263	1958	399,935	6,915,000

¹ Factory shipments since 1952.**TABLE 38. Factory Shipments of Capacitors, 1957 and 1958 (from All Industries)**

Item	1957		1958	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
	No.	\$		\$
Radio and TV capacitors, including radio condensers	—	3,828,846	..	3,292,963
Capacitors for electronic application (other than radio and TV)	—	1,562,795	..	3,635,997
Fluorescent ballast capacitors	—	—	..	—
Miscellaneous capacitors	—	—	..	—
Total	—	5,391,641	..	5,928,960

TABLE 39. Production Workers, by Months, 1958

Month	Establishments reporting monthly detail ¹		Establishments not reporting monthly detail ¹		All establishments		
	Male	Female	Male	Female	Male	Female	Total
	number						
January	35,308	13,982			35,308	13,982	49,290
February	34,853	13,758			34,853	13,758	48,611
March	34,240	13,726			34,240	13,726	47,966
April	33,783	13,824			33,783	13,824	47,607
May	33,382	14,156	298	96	33,680	14,251	47,931
June	33,493	14,371			33,493	14,371	47,864
July	32,823	14,294			32,823	14,294	47,117
August	33,078	14,616			33,078	14,616	47,694
September	33,710	14,995			33,710	14,995	48,705
October	33,572	15,083			33,572	15,083	48,655
November	33,220	14,904			33,220	14,904	48,124
December	32,716	14,287			32,716	14,287	47,003
Average²					33,979	14,408	48,387

¹ The number of production workers by months was generally collected only for establishments reporting value of shipments of \$100,000 and over. For smaller establishments, only the number employed during the last pay period of May, 1958, was collected.

² The average for establishments generally reporting shipments of less than \$100,000 was estimated by using average annual earnings data from the large establishments in conjunction with reported payrolls for the small establishments.

TABLE 40. Employees and Earnings in the Electrical Apparatus and Supplies Industry, by Provinces, 1957 and 1958

Province	Employees					Earnings		
	Supervisory and office		Production and related workers		Total employees	Supervisory and office	Production and related workers	Total earnings
	Male	Female	Male	Female				
	number					dollars		
1957								
Newfoundland, Nova Scotia and Quebec	6,056	2,090	11,276	4,952	24,374	39,670,879	55,348,031	95,018,910
Ontario	13,474	5,011	25,874	10,263	54,622	87,792,034	128,941,852	216,733,886
Manitoba	240	73	700	136	1,149	1,139,196	2,588,076	3,727,272
Saskatchewan and Alberta	44	13	177	10	244	245,416	608,215	853,631
British Columbia	244	108	558	133	1,043	1,850,674	2,232,274	4,082,948
Canada	20,058	7,295	38,585	15,494	81,432	130,698,199	189,718,448	320,416,647
1958								
Newfoundland, Nova Scotia, New Brunswick and Quebec	6,105	2,017	10,335	4,337	22,794	42,537,347	52,724,643	95,261,990
Ontario	13,170	4,609	22,357	9,855	49,991	91,651,881	120,571,454	212,223,335
Manitoba	205	70	626	104	1,005	1,197,129	2,689,074	3,886,203
Saskatchewan and Alberta	50	13	159	13	235	288,139	593,386	881,525
British Columbia	232	86	502	99	919	1,784,587	2,320,133	4,104,720
Canada	19,762	6,795	33,979	14,408	74,944	137,459,083	178,898,690	316,357,773

TABLE 41. Capital and Repair Expenditures in the Electrical Apparatus and Supplies Industry, 1954-58

Industry	Capital expenditures		Repair and maintenance expenditures		Total capital and repair expenditures
	Construction	Machinery and equipment	Construction	Machinery and equipment	
thousands of dollars					
1954					
Batteries	1,180	1,321	56	508	3,065
Heavy electrical machinery and equipment	3,018	6,367	1,184	4,794	15,363
Radios and radio parts ¹	2,769	3,883	566	1,491	8,709
Refrigerators, vacuum cleaners, and appliances....	1,925	1,753	292	1,038	5,008
Miscellaneous electrical products	2,971	6,843	1,002	5,631	16,447
Total	11,863	20,167	3,100	13,462	48,592
1955					
Batteries	175	823	75	449	1,522
Heavy electrical machinery and equipment	1,921	5,073	753	4,332	12,079
Radios and radio parts ¹	1,398	4,265	453	1,491	7,607
Refrigerators, vacuum cleaners, and appliances....	1,386	1,895	333	1,083	4,697
Miscellaneous electrical products	3,229	8,481	1,218	5,961	18,889
Total	8,109	20,537	2,832	13,316	44,794
1956					
Batteries	²	645	118	516	1,279
Heavy electrical machinery and equipment	4,383	6,959	841	4,576	16,759
Telecommunication equipment ¹	1,392	3,228	693	1,230	6,543
Refrigerators, vacuum cleaners, and appliances....	1,075	2,407	336	1,325	5,143
Miscellaneous electrical products	7,834	13,636	1,771	7,948	31,189
Total	14,684	26,875	3,759	15,595	60,913
1957					
Batteries	901	990	52	391	2,334
Heavy electrical machinery and equipment	3,394	7,583	1,133	3,905	16,015
Telecommunications equipment	929	2,841	443	1,521	5,734
Refrigerators, vacuum cleaners, and appliances....	1,855	1,939	331	1,201	5,326
Miscellaneous electrical products	6,707	17,174	1,369	8,440	33,690
Total	13,786	30,527	3,328	15,458	63,099
1958 ^P					
Batteries	986	596	117	497	2,196
Heavy electrical machinery and equipment	1,039	5,231	910	3,568	10,748
Telecommunications equipment	221	2,280	575	1,328	4,404
Refrigerators, vacuum cleaners, and appliances....	445	2,456	308	1,187	4,396
Miscellaneous electrical products	5,085	13,068	1,008	7,629	26,790
Total	7,776	23,631	2,918	14,209	48,534

¹ See footnote to Table 3.

² Included in "Heavy electrical machinery and equipment."

TABLE 42. Imports and Exports of Selected Commodities Considered to be of Interest to the Electrical Industry, 1957 and 1958

Product	1957		1958	
	Quantity	Value \$	Quantity	Value \$
(a) Imports:				
Batteries for flashlights, and parts	—	163, 537	..	262, 168
Batteries, hearing-aid, and parts	—	365, 046	..	417, 845
Batteries, electric and galvanic primary, and complete parts, n.o.p.	—	682, 382	..	941, 307
Storage batteries, n.o.p., and parts, including separator walls of wood	—	2, 322, 629	..	1, 817, 439
Cleaners, electric vacuum	No. 139, 046	4, 502, 201	136, 288	4, 761, 722
Cleaners, hand-vacuum, and attachments, and complete parts of all vacuum cleaners	—	2, 218, 087	..	2, 336, 690
Cooking stoves, electric, valued at more than \$25 each ...	" 8, 178	964, 783	6, 361	758, 938
Space-heating and cooking apparatus, electric, n.o.p.	—	3, 056, 464	..	3, 578, 948
Heating apparatus, electric, other than for cooking or space-heating	—	2, 168, 518	..	2, 001, 599
Dynamos or generators, and parts	—	17, 058, 274	..	12, 113, 738
Fuses, fuse plugs and cutouts, electric, and complete parts, n.o.p.	—	1, 427, 744	..	1, 340, 943
Fluorescent tubes and other arc lamps	" 559, 559	550, 988	591, 198	584, 711
Home or farm freezers, electric	" 42, 346	7, 157, 844	49, 290	8, 329, 067
Photoflash lamps	" 460, 034	29, 778	3, 109, 466	201, 786
Lamps, electric, incandescent, carbon filament	" 3, 519	835	—	—
Lamps, electric, incandescent, metal filament	" 26, 073, 705	3, 908, 290	31, 565, 877	3, 304, 979
Lights — Electric, head, side and tail lights, n.o.p.: electric torches or flashlights and parts	—	1, 976, 639	..	1, 830, 632
Electric light fixtures and appliances, n.o.p., and complete parts	—	6, 634, 989	..	6, 916, 442
Lightning arresters, choke coils, reactors and other protective devices, and complete parts, n.o.p.	—	665, 398	..	458, 559
Magnetos and complete parts, for the manufacture of internal combustion engines	—	77, 180	..	44, 025
Electrical instruments and apparatus of precision of a class or kind not made in Canada, as enumerated in tariff item 445n.	—	13, 061, 441	..	15, 760, 723
Meters, electric, and complete parts	—	2, 675, 747	..	2, 756, 336
Motors, electric, valued at less than \$10 each	" 142, 944	409, 308	171, 636	664, 920
Motors, electric, n.o.p., valued at \$10 or over and complete parts	—	20, 573, 047	..	15, 522, 840
Refrigerators, electric, domestic or store, completely equipped or not	" 94, 664	16, 033, 493	105, 034	16, 661, 386
Refrigerators, n.o.p., equipped or not	" 2, 519	279, 989	3, 303	231, 138
Refrigerators, parts of	—	11, 641, 427	..	9, 573, 369
Rheostats, controllers and other starting and controlling devices, and parts, n.o.p.	—	11, 082, 312	..	10, 254, 202
Sad irons, electric, and parts	—	507, 048	..	605, 856
Self-contained lighting outfits and parts, n.o.p.	—	36, 622	..	12, 744
Sockets, outlets and receptacles and parts, n.o.p.	—	2, 092, 372	..	1, 856, 374
Spark plugs, magnetos, n.o.p., and other ignition apparatus and parts	—	991, 902	..	1, 146, 988
Switches, switchboards, n.o.p., circuit breakers and parts	—	14, 698, 291	..	11, 965, 667
Switch gear, flame-proof, electric, for use underground in coal mines and parts	—	57, 193	..	107, 755
Telegraph apparatus, electric, and parts	—	8, 018, 237	..	4, 553, 633
Telephone apparatus, electric, and parts	—	18, 127, 042	..	15, 020, 488
Television receiving sets	" 4, 036	397, 104	13, 960	1, 929, 133

TABLE 42. Imports and Exports of Selected Commodities Considered to be of Interest to the Electrical Industry, 1957 and 1958 - Continued

Product	1957		1958	
	Quantity	Value \$	Quantity	Value \$
(a) Imports - Concluded:				
Transformers and parts, n.o.p.	-	10,418,714	..	8,098,613
Washing machines, electric domestic No.	35,961	5,082,355	31,129	4,389,881
Washing machines, domestic, parts of	-	4,186,630	..	3,855,729
Radio tubes	6,410,000	6,495,016	7,762,119	7,423,459
Radio receiving sets	146,806	2,943,594	288,131	6,531,304
Radio receiving sets, parts of, as enumerated in tariff item 445o	-	6,094,631	..	6,206,447
Radio tube parts as enumerated in tariff item 445p	-	5,729,291	..	7,109,562
Radio and wireless apparatus, electric, n.o.p.	-	34,059,258	..	33,287,335
Electric dry-shaving machines, for use in removing human hair, and parts thereof	-	4,662,053	..	3,688,468
Electric steam turbo generator sets, 700 h.p. and greater, of a class or kind not made in Canada, and parts	10	3,700,520	10	12,187,607
Electric or gas welding apparatus, not including motors	-	7,382,568	..	5,459,661
Sound equipment	-	2,851,330	..	3,033,030
Tape recorders and parts .....	..	..	..	2,298,696
Electrical apparatus, n.o.p., and parts	-	32,342,475	..	30,582,738
Welding rods or welding wires of all kinds	145,709	4,055,207	134,321	3,814,637
Equipment for generating electric power for farm purposes only	-	50,561	..	56,041
Sewing machines	157,846	5,132,602	196,313	6,130,244
Dental engines, electric	433	58,977	351	59,169
Ice-making and refrigerating machinery, n.o.p., and parts	-	7,436,853	..	8,100,172
Water turbines, n.o.p., and parts	-	2,463,536	..	2,060,852
Air-conditioning apparatus, including blowers and ventilating machinery, and parts	-	11,233,119	..	9,932,659
Air conditioners, room size	22,935	4,019,041	12,153	1,839,979
Ironers, domestic electric	534	36,565	1,044	50,345
Clothes dryers, domestic electric	12,642	2,349,716	14,585	2,823,779
Oil burners, n.o.p.	2,144	258,978	1,913	176,352
Heating and cooking apparatus, parts of	-	12,164,442	..	13,294,615
Industrial furnaces and parts	-	3,703,879	..	3,072,118
Water heater parts, including automatic pilots, thermostatic and other controlling devices	-	542,749	..	551,464
Water heaters, gas	29,421	1,504,171	28,414	1,492,666
Water heaters, electric	18,125	736,766	16,751	590,607
Water heaters, n.o.p.	3,260	228,764	3,830	276,445
Aluminum wire and cable, twisted, stranded or not, reinforced with steel or not	47,411	1,743,066	27,009	978,725
Copper wire, n.o.p.	93,073	51,387	210,440	109,557
Non-ferrous wire, single or several, covered with any material, including cable so covered	-	6,870,268	..	6,849,013
Non-ferrous wire, twisted, braided or stranded, including wire rope and wire cable, coated or not, n.o.p.	-	272,697	..	284,848
Non-ferrous wire of all kinds, n.o.p.	-	507,209	..	613,529
Insulators, electric, porcelain and parts	-	954,357	..	736,973
Insulators, electric, n.o.p., and complete parts	-	688,799	..	672,113
Phonographs, graphophones, gramophones and finished parts	-	1,670,817	..	2,008,498
Phonographs, coin-operated	2,284	1,403,943	1,320	810,901
X-ray apparatus	-	3,968,336	..	4,664,536

TABLE 42. Imports and Exports of Selected Commodities Considered to be of Interest to the Electrical Industry, 1957 and 1958 - Concluded

Product	1957		1958	
	Quantity	Value \$	Quantity	Value \$
(b) Exports:				
Storage batteries No.	3,441	58,673	2,757	39,440
Storage battery parts	—	122,823	..	43,624
Batteries and parts, n.o.p.	—	11,476	..	118,732
Radio receiving sets (except batteries)	5,817	461,151	643	205,063
Radio and wireless apparatus, n.o.p. (except batteries)	—	4,527,834	..	5,968,634
Telegraph and telephone apparatus, n.o.p.	—	2,148,791	..	1,837,007
Transformers and parts	—	1,835,673	..	2,609,534
Dynamos and generators, and parts	—	997,838	..	1,861,340
Electric meters and parts	—	2,303,290	..	1,749,768
Electric motors and parts	—	2,295,659	..	1,095,977
Electric stoves and parts	871	175,491	709	136,834
Electric heating and cooking devices, domestic, n.o.p.	—	98,295	..	91,610
Spark plugs	—	1,960,353	..	2,169,325
Electrical parts for vehicles and engines	—	283,596	..	212,392
Switches, sockets and other wiring devices	—	146,691	..	94,198
Electric lamps and shades	—	26,661	..	17,392
Electric light fixtures and parts	—	156,693	..	149,597
Washing machines, domestic, electric	10,185	856,973	9,615	821,598
Electrical vacuum cleaners and parts	5	4,154	283	17,250
Refrigerators and parts, power	2,019	366,268	1,562	267,830
Electrical apparatus, n.o.p.	—	7,848,716	..	6,772,030

TABLE 43. Fuel and Electricity Used in the Electrical Apparatus and Supplies Industry, 1958

Kind	Quantity	Cost at plant \$
(1) Establishments reporting commodity detail:¹		
Bituminous coal (a) From Canadian mines	tons 16,960	162,956
(b) Imported	“ 72,987	768,875
Sub-bituminous coal (from Alberta mines only)	“ 692	10,346
Anthracite coal	“ 2,167	37,544
Lignite coal	“ 427	2,509
Gasoline	Imp. gal. 1,029,544	401,213
Fuel oil including kerosene or coal oil	“ 16,394,709	1,855,722
Gas (a) Liquefied petroleum gases (propane, etc.)	“ 879,458	142,864
(b) Other manufactured gas	M cu. ft. 182,397	238,938
(c) Natural gas	“ 467,329	542,107
Other fuel	“ ..	96,733
Electricity purchased	kwh. 477,069,676	4,590,390
Steam purchased .....	..	265,319
(2) Establishments not reporting commodity detail:¹		
Total cost of fuel .....	...	40,778
Electricity purchased .....	..	35,303
(3) All establishments:		
Total cost of fuel .....	...	4,565,904
Total cost of electricity .....	...	4,625,693
Total cost of fuel and electricity .....	...	9,191,597
Electricity generated for own use	kwh. 13,697,600	—

¹ Data on the quantity and value of the different kinds of fuel and on the quantity of electricity purchased were generally not collected for establishments reporting value of shipments of less than \$100,000. Only the total cost of fuel and the total cost of electricity were collected for these establishments.

TABLE 44. Total Horsepower Rating of Power Equipment in Use or Available for Use in the Electrical Apparatus and Supplies Industry at the End of 1958

Type of equipment	horsepower	
	Driving generators	Not driving generators
Prime movers:		
Steam engines	—	67
Steam turbines	6,680	522
Diesel engines	2,881	920
Gasoline, gas and oil engines, other than diesel engines	175	633
Hydraulic turbines or water wheels	2,900	—
Total	12,636	2,142
Electric motors (one-quarter horsepower and over)	—	214,759

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1958

Name of firm	Location of plant
(a) Batteries	
Newfoundland:	
Hanning Electric Co. Ltd.	Topsail Hill, St. John's
Quebec:	
Cipel (Canada) Ltd.	Rue Notre Dame, Valleyfield
Hart Battery Division, The Linseed Oil Co. Ltd.	170 St. George St., St. Johns
New Era Battery Company	2240 Bellechasse St., Montreal
Service Specialty Company Ltd.	90 Bates Road, Outremont
Ontario:	
Burgess Battery Company	415 Buttrey St., Niagara Falls
Electric Storage Battery Co. (Canada) Ltd.	663 Warden Ave., Scarborough & 2301 Dixie Rd., Port Credit
General Motors of Canada Ltd.	Oshawa
Globe Union Canada (1953) Ltd.	Ajax
Gould-National Batteries of Canada, Ltd.	Maple St., Kingston and Fort Erie
Hay Battery Co., Limited, The	1300 Barton St. E., Hamilton
La Salle Lead Products Ltd.	680 Wyandotte St. E., Windsor
Mallory Battery Company of Canada Limited	228 St. Helen's Ave., Toronto
National Carbon Company	805 Davenport Road, Toronto and Walkerton
Prest-O-Lite Battery Co. Ltd.	1352-60 Dufferin St., Toronto
Radium Battery	374 Barton St. E., Hamilton
Manitoba:	
Globelite Batteries Limited	1021 Winnipeg Ave., Winnipeg
Ray-O-Vac (Canada) Limited	Barry St. and Sargent, St. James
Alberta:	
Alberta Battery Company Ltd.	1312 Centre St. S., Calgary
Electric Storage Battery Co. of Canada Ltd.	104-58th Ave., Calgary
Gould-National Batteries of Canada, Ltd.	510C-6th St. E., Calgary
Prest-O-Lite Battery Co. Ltd.	58th Ave. & 4th St. S. E., Calgary
British Columbia:	
Dollina Enterprises Ltd.	901 E. Hastings, Vancouver
Francis Battery Service	1412 Quadra St. W., Victoria
Giant Battery Co. Ltd.	1290 Howe St., Vancouver
Globelite Batteries (B.C.) Limited	8650 Barnard St., Vancouver
Jones Bros. Batteries, Limited	1314 Quadra St., Victoria
Major Batteries Ltd.	271 Ingram St., Duncan
Marshall Batteries Ltd.	532 E. Broadway St., Vancouver
Russell Batteries	16 Nicol St., Nanaimo
X-LKO-Manufacturing Ltd.	1835 Powell, Vancouver

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1958 - Continued

Name of firm	Location of plant
(b) Heavy Electrical Machinery and Equipment	
Quebec:	
Air Reduction Canada Limited Alpha Electronic Products Co. Ltd. Beaupre Engineering Works Co. Brown, Boveri (Canada) Ltd. Cemco Switchgear Ltd. Devoe Electric Switch Co. Ltd., The Eastern Power Devices Ltd. Electrical Mfg. Co. Ltd. Electric Switchgear (1953) Ltd. Girard, Roger Inc. Hughes, Benjamin, Electric Company Tamper Limited	905 Hodge St., Montreal 205 St. Zotique St., Montreal 3935 Newmarch St., Verdun St. Johns 561 Maisonneuve Street, Granby 475 Metropolitan Blvd., Lachine 8355 Mountain Sights, Montreal 4th St., Montmagny 115 St. Denis Ave., St. Lambert, Montreal 10123 Hotel De Ville, Montreal 12100 Reed St., Montreal 160 St. Joseph St., Lachine
Ontario:	
Acme Electric Corporation Ltd. Allanson Armature Mfg. Co. Ltd. Allen-Bradley Canada Ltd. Allied Industrial Electronics of Canada Ltd. Amalgamated Electric Corp. Ltd. Amplifone Canada Ltd. Bogue Electric of Canada, Ltd. Bull Dog Electric Products Company (Canada) Ltd. Canadian Allis Chalmers Limited Canadian Atlas Transformer Co. Ltd. Canadian Controllers Limited Canadian Electric Box and Stampings Ltd. Canadian General Electric Co. Ltd. Canadian General Electric Co. Ltd. Canadian General Electric Co. Ltd. Canadian Sterling Electric Ltd. Canadian Westinghouse Co. Ltd. Canadian Westinghouse Co. Ltd. Cansfield Electrical Works Limited Consolidated Diesel Electric Corp. of Canada Ltd. Crompton Parkinson Electrical Ltd. Crothers Mfg. Ltd. Dominion Cutout Co. Limited Dresser Electric Ltd. Eastern Power Devices Limited English Electric Company of Canada Ltd. Ferranti-Packard Electric Limited Ferranti-Packard Electric Limited F.H. Welding Machines Ltd. Hammond Manufacturing Co. Ltd. Jones & Moore Electric Co. Ltd. Leland Electric Canada Ltd. Lincoln Electric Co. of Canada Ltd. Link Welder of Canada Ltd. Lovatt Engineering Limited Mechron Engineering Products Ltd. Mitton Electric & Machinery Ltd. Moloney Electric Co. of Canada Ltd. Nelson Stud Welding Corp. (Canada) Ltd. Powerlite Devices Ltd. Progressive Welder (Canada) Ltd. Redmond Electric Motors of Canada Ltd. Reliance Electric & Engineering (Canada) Limited Richardson-Allen of Canada Ltd. Robbins & Myers Co. of Canada Ltd., The Sangamo Company, Limited Shoe Machine Parts Ltd. Sola Electric (Canada) Ltd. Square D Company of Canada Limited Stark, H.G. & Co. Ltd. Stegg Electric Ltd. Super Motor & Electric Ltd. Supreme Power Supplies Ltd. Union Switch Box Co. Ltd. Ward Leonard of Canada Ltd. Weld-O-Matic Machines Ltd.	Northline Rd. #50, Toronto 33 Cranfield Rd., Toronto 135 Dundas St., Galt 9 Torbarrie Rd., Toronto 384 Pape Ave., Toronto 11 Water St. Belleville River Rd., Billings Bridge 80 Clayson Road, Weston 55 Burwell Rd., St. Thomas 17 Carlaw Ave., Toronto 1550 Birchmount Rd., Scarborough 950 Warden Ave., Scarborough Guelph 940 Lansdowne Ave., Toronto 107 Park St., Peterborough 430 Cannon St. E., Hamilton 286 Sanford Ave. N., Hamilton & Stratford Clark Side Road & Huron St., London 260 Geary Ave., Toronto 23 Racine Rd., Rexdale Shaver St., Brantford 772 Warden Ave., Scarborough 250 Richmond St. W., Toronto 877 Walker Rd., Windsor 2401 Dixie Rd., Port Credit George Street, St. Catharines Industry St., Mount Dennis, Toronto St. Catharines 92 North Queen St., Toronto Speedvale Ave. & Edinburgh Rd., Guelph 296 Adelaide St. W., Toronto 50 Crimea St., Guelph 179 Wicksteed Ave., Leaside 2930 College Ave., Windsor 3545 Danforth Ave., Toronto 2437 Kaladar Ave., Ottawa Chestnut St. E., Whitby 213-219 Sterling Road, Toronto 108 Tycos Dr., Toronto 54 Atomic Ave., Toronto 635 Richmond St., Chatham 121 Woodworth Ave., St. Thomas 130 Dennistoun St., Welland 1236 Birchmount Rd., Scarborough Morrell Street, Brantford.. 215 Laird Drive, Leaside, Toronto 60 Tecumseh St., Toronto 24 Canmotor Avenue, Toronto Industry Street, Toronto 126 Willowdale St., Willowdale 34 Bertram Blvd., Belleville 38 Fieldway Rd., Toronto Newcastle & Audley Sts., Mimico 35 McCaul St., Toronto 1070 Birchmount Rd., Toronto 519 Parkdale Ave. N., Hamilton

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1958 - Continued

Name of firm	Location of plant
(b) Heavy Electrical Machinery and Equipment - Concluded	
Manitoba:	
Amalgamated Electric Corp. Ltd.	677 Notre Dame Ave., Winnipeg
Pioneer Electric Limited	1 Rockwood Place, Fort Garry
Pioneer Electric Brandon Ltd.	11th & Richmond Avenue, Brandon
Saskatchewan:	
Pioneer Electric (Sask.) Ltd.	1600 - 1st Ave., Regina
Smith-Roles & Co.	34th St. & Albert Ave., Saskatoon
Alberta:	
Camrose Electric Controls Ltd.	5612-49th Ave., Camrose
Pioneer Electric Alberta Ltd.	5727 - 53A Ave., Red Deer
British Columbia:	
British Columbia Transformer Co. Ltd.	6336 Lougheed Hwy., North Burnaby
Electric Panel Manufacturing Ltd.	1100 W. 6th Ave., Vancouver
Federal Pacific Mfg. Co.	22 East 5th Avenue, Vancouver
Transco Mfg. Ltd.	7545 Conway St., Burnaby
(c) Telecommunication Equipment (Formerly Radios and Radio Parts)	
Nova Scotia:	
Cossor (Canada) Ltd.	301 - 303 Windsor St., Halifax
Quebec:	
Amplitrol Electronics Ltd.	7080 Hutchison St., Montreal
Audio-Vox Intercom Inc.	4510 DeLaroche, Montreal
Automatic Telephone & Sound Services	256 Ave. Regina, Montreal
Canadian Aviation Electronics Ltd.	6214 Cote De Liesse Road, Montreal
Canadian Marconi Company	2442 Trenton Road, Montreal
Chaput, Paul, Limitée	2626 Bates Rd., Montreal
Constanta Co. of Canada Ltd., The	280 Regina Ave., Verdun
Electrical Products Mfg. Co. Ltd.	5785 Pare St., Montreal
Electrolabs Reg'd.	7385 St. Lawrence Blvd., Montreal
Electronic Enterprises Ltd.	270 Vitre St. W., Montreal
King's Electronics (Canada) Ltd.	2425 Grand Blvd., Montreal
Lifco Record Players	699 St. Maurice, Montreal
Montreal Phono Co. Ltd.	52 Nazareth St., Montreal
Multi-Vox Ltd.	9967 St. Michel Blvd., Montreal
Norel Electrical Products	282 Ontario St. W., Montreal
Pylon Electronic Development Company Limited	161 Clement St., Ville La Salle
RCA Victor Company Limited	1001 Lenoir St., Montreal
Radio Communications Equipment & Engineering Ltd.	850 Fifth Ave., Lachine
Radio Engineering Products	325 Decelles St., Granby
Record Players Corp.	9500 St. Lawrence Blvd., Montreal
Shelbern Industries (Canada) Ltd.	642 de Courcelle St., Montreal
Standard Telephones and Cables Mfg. Co. (Canada) Ltd.	9600 St. Lawrence Blvd., Montreal
Still Electronics	6820 St. Urbain St., Montreal
Supior Electronics Inc.	7205 St. Urbain St., Montreal
Televox Systems Reg'd.	410 Lafayette Street, Quebec
Ontario:	
Addison Industries Ltd.	9-11 Hanna Ave., Toronto
Aerovox Canada Limited	1551 Barton St. E., Hamilton
Airtron Canada Ltd.	Renfrew
Allied Circuit Techniques Ltd.	1 Robinson St., Oakville
Andrew Antenna Corp. Ltd.	606 Beech St., Whitby
Antiference (Canada) Ltd.	169 Bartley Dr., Toronto
Arrow Radio Co.	1829 Davenport Rd., Toronto
Audio Transformer Co.	202 Regina St., Waterloo
Automatic Coil Mfg. Ltd.	50 Wingold Ave., Toronto
Automatic Radio of Canada, Ltd.	25 Bermondsy Rd., Toronto
Avionics Limited	Stone Rd., Niagara-on-the-Lake

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1958 - Continued

Name of firm	Location of plant
(c) Telecommunication Equipment - Continued	
Ontario - Continued:	
Beama Engineering Ltd.	76 Densley Ave., Toronto
Benco Television Associates Ltd.	27 Tabor Rd., Rexdale
Canadian Admiral Corp. Ltd.	501 Lakeshore Rd., Port Credit
Canadian Arsenals Limited, Instrument & Radar Division	651 Warden Ave., Scarborough
Canadian Astatic Limited	2271-2273 Danforth Ave., Toronto
Canadian Electronics Co.	180 Chatham St., Hamilton
Canadian General Electric Co. Ltd.	830 Lansdowne Ave., Toronto
Canadian General Electric Co. Ltd.	189 Dufferin St., Toronto
Canadian Industrial Consultants Ltd.	60 Newcastle St., Toronto
Canadian Stack Pole Ltd.	550 Evans Ave., Toronto
Canadian Westinghouse Co. Ltd.	Brantford
Canadian Westinghouse Co. Ltd.	Longwood Rd., Hamilton
Canadian Westinghouse Co. Ltd.	Aberdeen Ave., Hamilton
Cannon Electric Canada Ltd.	160 Bartley Drive, Toronto
Centralab Canada Ltd.	Ajax
Collben Manufacturing Co. Limited	5 Thorpe, Dundas
Collins Radio Co. of Canada Ltd.	11 Bermondsey Rd., Toronto
Consolidated Electronic Equipment Co. Ltd.	94 Sheppard Ave. W. Willowdale
Craig Electronics Co.	183 Bathurst St., Toronto
Crown Metal Products	P.O. Box 156, Belmont
Darcy, J.H. Ltd.	51 Abbott St., Smiths Falls
Deca Mfg.	870 Eastern Ave., Toronto
Delhi Metal Products Co.	Waverly St., Delhi
Dominion Electrohome Industries Ltd.	809 Wellington St., Kitchener
Eclipse Electronic Co.	153 Logan Ave., Toronto
Electronic Controls Ltd.	50 Wellington St. E., Toronto
Electronic Craftsmen Ltd.	30 Weber St. N., Waterloo
Electronic Materials International Ltd.	342 Gladstone Ave., Ottawa
Electronics Corp. of America (Canada) Ltd.	104 Advance Rd., Toronto
Erie Resistor of Canada Ltd.	7 Fraser Ave., Trenton
Essex Electronics of Canada Ltd.	99 Wragge St., Trenton
General Communications Limited	980 O'Connor Dr., Toronto
General Instruments - F.W. Sickles of Canada Ltd.	Weber St. S., Waterloo
Gordon Ruth & Co.	354 Princess Ave., London
Hackbusch Electronics Ltd.	23 Primrose Ave., Toronto
Hallicrafter Canada Ltd.	Don Mills
Industrial Electronics of Canada Ltd.	80 Thomas St., Streetsville
International Resistance Co. Ltd.	349 Carlaw Ave., Toronto
Kelton Ultrasonics Ltd.	186 King St., London
Lindsay Antenna Products	11 Wellington St., Lindsay
Marsland Engineering Ltd.	154 Victoria St., Kitchener
Marsland, Eric, & Co.	824 Victoria St., Kitchener
McCurdy Radio Industries	22 Front St. W., Toronto
Measurement Engineering Limited	Arnprior
Methode Mfg. Canada Ltd.	10th Ave., Hanover
Northern Electric Co. Ltd.	250 Sidney St., Belleville
Northern Radio Manufacturing	1950 Bank St., Ottawa
Philco Corporation of Canada Ltd.	Don Mills Road, Don Mills
Phillips Electronics Industries	11-19 Brentcliffe Rd., Leaside
Precision Electronic Components Ltd.	50 Wingold Avenue, Toronto
Quality Hermetics Ltd.	45 Hollinger Rd., Toronto
Radio Components Ltd.	50 Wingold Ave., Toronto
Radio Condenser Co. Ltd.	6 Bermondsey Rd., Toronto
Radio Speakers (Canada) Ltd.	37 Hanna Ave., Toronto
Raytheon Canada Limited	61 Laurel St. East, Waterloo
RCA Victor Company Limited	Prescott
RCA Victor Company Limited	Renfrew
Rotronic Corp. Ltd.	380 Adelaide St. W., Toronto
Servomechanisms (Canada) Ltd.	Rexdale Blvd. & Kipling Ave., Toronto
Sinclair Radio Laboratories Ltd.	70 Sheffield St., Toronto
Smallwood, S.G., Limited	397 King St. E., Kitchener
Snelgrove, C.R., Co. Ltd.	141 Bond St., Don Mills
Sonograph Engineering & Mfg. Co. Ltd.	122 Laird Dr., Leaside
Soundmaster Equipments	283½ Bank St., Ottawa
Sparton of Canada Limited	Elm and Pine Sts., London
Standard Television Products Ltd.	108 Sydney St., Kitchener
Stanwyck Coil Products Ltd.	17 Laurier St., Hawkesbury
Sylvania Electric (Canada) Limited	Broad Street East, Dunnville
Tequipment Mfg. Co.	729 Dundas St. (rear), London
Tenatronics Ltd.	Davis Drive, Newmarket
Titania Electric Corporation of Canada Limited	Herbert & Brock Sts., Gananoque
Tri-View Electronics Ltd.	10 Leswyn Rd., Toronto

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1958 - Continued

Name of firm	Location of plant
(c) Telecommunication Equipment - Concluded	
Ontario - Concluded:	
Valeriot Electronics Ltd.	3 Victoria Road, Guelph
Varian Associates of Canada Ltd.	45 River Drive, Georgetown
Watkins Electronics Ltd.	9 Dwight Ave., Toronto
Welwyn Canada Ltd.	1255 Brydges St., London
Winco Electronics Co. Ltd.	362 Chilver Rd., Windsor
Wright, W. Gary, Electronics of Canada Ltd.	628 Kent St. W., Whitby
Manitoba:	
Canadian Aviation Electronics	387 Sutherland Ave., Winnipeg
Alberta:	
Electronic Research & Development Co. Ltd.	210-9th Ave., Calgary
British Columbia:	
Barvic Engineering Limited	909 Beach Ave., Vancouver
Chisholm Industries Ltd.	Electronic Ave., Vancouver
Ekolite Limited	525 East Hastings St., Vancouver
Humble Manufacturing Co. Ltd.	1695 West 2nd Ave., Vancouver
McCarter Radio & Television Ltd.	1625 W. 3rd Ave., Vancouver
Research Industries Ltd.	1777 W. 3rd Ave., Vancouver
Sims Laboratories	Sidney
Spilsbury & Tindall Ltd.	120 E. Cordova St., Vancouver
Vision Manufacturing Limited	620 Taylor St., Vancouver
West Coast Radio Telephone Mfg. Co.	1366 W. Pender St., Vancouver
(d) Refrigerators, Vacuum Cleaners and Appliances	
Quebec:	
Canadian Armature Works	6596 St. Urbain St., Montreal
Canadian General Electric Company Ltd.	5781 Notre Dame St. E., Montreal
Danby Appliance Co., The	2157 St. Patrick St., Montreal
Defrostomatic Co. Ltd.	Granby
Electrolux (Canada) Limited	201 Laurier Ave. E., Montreal
Electro-Steam Manufacturing Co. Ltd.	154 Fairmount St. W., Montreal
Giant Electric Mfg. Co. Ltd.	40 Hurtubise Blvd., Montreal E.
Home Steel Products Co.	148 Port Royal W., Montreal
Lalonde, Frank P., Ltd.	Dorval
Progress Restaurant & Equipment Mfg. Ltd.	4865 St. Lawrence Blvd., Montreal
Roy, E., Industries, Ltd.	L'Assomption
Wright, P.M., Electrical Co.	1327 Dorchester St. W., Montreal
Ontario:	
Alpaca Electric Appliances Ltd.	369 Danforth Rd., Toronto
Brewes Electric	127 Raleigh Ave., Toronto
Brock Snyder Mfg. Co., The	21 John St., Grimsby
Canadian Chromalox Co. Ltd.	210 Rexdale Blvd., Rexdale
Canadian Curtis Refrigeration Co. Ltd.	20 St. George St., Hamilton
Canadian Fractional Motors	Airport Rd., Warton
Canadian General Electric Co. Ltd.	30 Bradford St., Barrie
Canadian General Electric Co. Ltd.	24 Ward St., Toronto
Canadian Westinghouse Co. Ltd.	Longwood Road, Hamilton
Canadian Wilber B. Driver	50 Ronson Drive, Rexdale
Carrier Engineering Ltd.	70 Queen Elizabeth Blvd., Toronto
Chandler Electric Co.	3160 Dundas St. W., Toronto
Clyde Fans Limited	241 King St. East, Toronto
Continental Electric Co. Ltd.	310 Spadina Ave., Toronto
Cory Corporation Canada Ltd.	3300 Dufferin St., Toronto
Domestic Electric Co.	272 Church St., Toronto
Endress, George W., Co. Ltd.	Building 116, Avenue D, Ajax
Ever-Bright Ltd.	1415 Weston Rd., Toronto
Filter Queen Corp. Ltd.	252 Victoria St., Toronto
Filtro Electric Limited	5 Parnell Ave., Toronto
Force Electric Products Limited	163 Church St., Acton
Frigidaire Products of Canada Ltd.	1901 Eglinton Ave. E., Scarborough
General Freezer Ltd.	13 Wallace St., Woodbridge

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1958 - Continued

Name of firm	Location of plant
(d) Refrigerators, Vacuum Cleaners and Appliances - Concluded	
Ontario - Concluded:	
Gilson Manufacturing Co. Ltd. Glassheat of Canada Ltd. Graham Metal Products Ltd. Groh's Cooler Limited Hanksraft, (Canada) Ltd. Hoover Company Ltd., The Hygrade Electric Mfg. Co. Keep Rite Refrigeration Ltd. Kelvinator of Canada Ltd. Knight Rebound Controllers Ltd. Leader Fan Co. Ltd. McGraw Electric Co. (Canada) Ltd. McCormack-Smyth Ltd. National Electric Mfg. Ltd. OHM-Rite Electric Ltd. Pyrexon Ray Co. Ltd. Radiant Devices Limited Renfrew Electric & Refrigerator Co. Ltd. Rotor Electric Company Ltd. Samson Dominion Ltd. Schultz Mfg. Co. Ltd. Sea Breeze Mfg. Ltd. and Audio Tool & Eng. Ltd. Sheraton Mfg. Co. Ltd. Sloan Engineering Ltd. Standard Appliance Mfg. Co. Ltd. Sunbeam Corporation (Canada) Ltd. Superior Electrics Limited Switson Industries Ltd. Thermax Division de Moffats Ltd. Triad Equipment Ltd. Universal Cooler Co. Ltd. Wood, W.C., Ltd., The	York Road, Guelph 1603 The Queensway, Toronto Bishop St., Preston Concession Rd., Preston Finley Ave., Ajax Gage and Barton Sts., Hamilton 841-843 College St., Toronto 44 Elgin St., Brantford 1152 Dundas St. E., London 96 Locke St. S., Hamilton 1228-30 Dupont St., Toronto 75 Chisholm St., Oakville 242 Mineola Road, Port Credit 53 Fraser Ave., Toronto 482 Wellington St. W., Toronto 17 Advance Rd., Toronto 77½ Wright Ave., Toronto Renfrew 195 Rexdale Blvd., Toronto 24-30 Curity Ave., Toronto 154-158 York St., Hamilton 32 River St., Toronto 604 King St., Toronto 1492 Don Mills Rd., Toronto 1542 Queensway, Toronto 220 Islington Avenue South, Toronto Pembroke St. E., Pembroke 201 Major St., Welland 79 West St. South, Orillia 1 Torbarrie Rd., Downsview 145 Sherwood Drive, Brantford 5 Arthur St. S., Guelph
Manitoba:	
Coldstream Refrigerator Mfg. Ltd. Element Specialty Mfg. Co. Master Products Co. Red Devil Heating & Mfg. Co. Supreme Electric Appliances Ltd.	1855 Sargent Ave., Winnipeg 223 Morley Ave., Winnipeg 548 Selkirk Ave., Winnipeg 272 Selkirk Ave., Winnipeg 1098 Winnipeg Ave., Winnipeg
British Columbia:	
Allied Engineering of B.C. Ltd. Elco Manufacturing Co. Ltd. Leeders Pacific Ltd.	Granville Island, Zone 1 75 W. 3rd Ave., Vancouver New Westminster
(e) Miscellaneous Electrical Products	
Quebec:	
American Metal Spinning Reg. Canadian Cameo Chime Co. Ltd. Canadian General Electric Co. Ltd. Canadian General Electric Co. Ltd. Canadian Westinghouse Co. Ltd. Canadian Westinghouse Co. Ltd. Columbia Electric Limited Conduits National Company Limited Crystal Craft Co. Dominion Electric Protection Co. Economy Fuse & Mfg. Co. of Canada Ltd. Electric Sales & Service and Dave's Repair Shop Electrolier Manufacturing Co. Ltd. Flex-I-Con Mfg. Company Ltd. Hale Brothers Limited Haliburton & White Limited Hi-Scale Products (Canada) Ltd. Iberville Fittings Limited J. R. Electric Reg'd. Keith Lighting Co.	3176 Rachel St. E., Montreal 10332 Lille St., Montreal St. Malo Faillon St. W., Montreal Granby Trois Rivières 261 Queen St., Montreal 10150 Notre Dame St. E., Montreal 630 Dorchester W., Montreal 2040 Clark St., Montreal 1030 St. Alexander St., Montreal 710 St. James St., Montreal 5849 Boyer St., Montreal 6155 Lafontaine St., Montreal 8255 St. Michel Blvd., Montreal 8235 Mountain Sights Ave., Montreal 7893 St. Lawrence Blvd., Montreal 100 Longtin St., St. Johns 2520 Charland St., Montreal 748 Lusignan St., Montreal

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1958 - Continued

Name of firm	Location of plant
(e) Miscellaneous Electrical Products - Continued	
Quebec - Concluded:	
Kitai-Electric L'Air-Liquide Society Metal Spinning Works Mid-Day Fluorescent Fixtures Inc. Modulte Inc. Northern Electric Co. Ltd. Peerless Electric Limited Progress Luminaire Ltd. Red Comet of Eastern Canada Rest-Glow Mfg. Co. Ltd. Rosemount Industries Co. Ltd. Schonbek, A., & Co., Ltd. Snoc Lighting Reg'd. Standard Electric Time Co. of Canada Ltd., The Sylvania Electric (Canada) Ltd. Temco Electric Mfg. Co. Universal Electric Products Co. Ltd. Vogue Lighting Products	611 Park Ave., Montreal 5030 Rouen St., Montreal 994 Rachel E., Montreal 931 Amherst St., Montreal 970 McEacherd, Outremont 1261 Shearer St., Montreal 5585 Fullum St., Montreal 5525 Pare, Town of Mount Royal 9010 St. Lawrence Blvd., Montreal 5600 Pare St., Montreal 2090 Moreau St., Montreal 950 Montee de Liesse, Montreal 8465 St. Maurice St., St. Hyacinthe 726 St. Felix St., Montreal 1 Sylvan Rd., Drummondville 4700 Amiens Street, Montreal 2155 Moreau St., Montreal 10570 Cobourg Ave., Montreal
Ontario:	
Allied Fluorescent & Incandescent Ltd. Alwyn Lighting Products Amcan Electrical Harness Ltd. Amphenol Canada Ltd. Anderson Manufacturing Co. Ardron-Mackie Ltd. Arrow Fluorescent Co. Ltd. Arrow-Hart & Hegeman (Canada) Ltd. Automatic Alarms & Signals Ltd. Automatic Electric (Canada) Ltd. Automatic Watchdog Controls Ltd. Bach-Simpson Limited Bayly Engineering Ltd. Beck Electric Mfg. Co. Ltd. Bowman Electric Herder Branston, Chas. A., Limited Brite-Lite Products Co. Ltd. Brooks Lighting Ltd. Burger Lighting Products Ltd. Burndy Canada Ltd. C. & M. Products Ltd. Camesco Lighting Ltd. Canadian Electric Resistors Ltd. Canadian Fluorescent Light Co. Canadian General Electric Co. Ltd. Canadian General Electric Co. Ltd. Canadian General Electric Co. Ltd. Canadian Line Materials Ltd. Chadwick-Carrol Brass & Fixtures Limited Clare, C. P. Canada Ltd. Colonial Lighting Co., The Commercial Enclosed Fuse Co. (Canada) Ltd. Conduits National Company Ltd. Cords (Canada) Ltd. Crouse-Hinds Company of Canada Ltd. Crown Electrical Mfg. Ltd. Curtis Lighting of Canada Ltd. Daly-Capacitors Ltd. Dominion Carbon Brush Co. Ltd. Dominion Electric Mfg. Company Ltd. Dominion Machine & Tool Co. Ltd. Edwards of Canada Ltd. Elektrikords & Harness Ltd. Etlin, H.B., Co. Ltd. Federal Pacific Manufacturing Co. Fixturite Mfg. Co. Frost, L.H. (Canada) Garcy Company of Canada Ltd. Globe Connectors Ltd. Hart Manufacturing (Canada) Ltd. Hoskins Alloys of Canada Ltd.	2562 Stanfield Rd., Port Credit 469 King St. W., Toronto 53 Fraser Ave., Toronto 300 Campbell Ave., Toronto 441 West St., Brantford 9 Niagara St., Toronto 1480 Dundas Hwy. East, Toronto Industry Street, Toronto 87A Awde St., Toronto 100 Strowger Blvd., Brockville 4249 Dundas St. W., Toronto 1255 Brydges St., London Hunt St., Ajax 10 Alcorn Ave., Toronto Petersburg 2508 Yonge St., Toronto 9 Magnificent Rd., Toronto 318 Rexdale Blvd., Rexdale 27 Sackville Place, Toronto 1530 Birchmount Rd., Scarborough 124 Crockford Blvd., Toronto 280 Lansdowne Ave., Toronto Curity Ave., Toronto 308-310 Adelaide St. W., Toronto Dufferin St., Toronto Queen Elizabeth Highway, Oakville 940 Lansdowne Ave., Toronto 3595 St. Clair Ave. E., Scarboro Junction South End Adams St., Hamilton 2700 Jane St., Downsview 45 Knoll St., Port Colborne 482 Wellington St. W., Toronto 33 Labatt Ave., Toronto 149 Sterling Rd., Toronto 1160 Birchmount Rd., Scarborough 19 Sydenham St., Brantford 195 Wicksteed Ave., Toronto 140 Kendal Ave., Toronto 550 Evans Ave., Toronto 60 Leslie St., Toronto 18 Hook Ave., Toronto 625-6th St. E., Owen Sound Hunt St., Ajax 1850 Wilson Ave., Weston 19 Waterman Ave., Toronto 130 King St. E., Toronto 1074 Service Rd., Oakville 1244 Dufferin St., Toronto 482 Wellington St. W., Toronto 155 Edwards St. Aurora 45 Racine Rd., Rexdale

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1958 - Continued

Name of firm	Location of plant
(e) Miscellaneous Electrical Products - Concluded	
Ontario - Concluded:	
Jensen Electrical Mfg. Co. Ltd.	216 Norseman St., Toronto
Kamro Lighting Products	P.O. Box 213, Weston
Kearney, James R., Corp. of Canada Ltd.	430 Elizabeth St., Guelph
Kelk, George Limited	130 Willowdale Ave., Willowdale
Kondu Mfg. Co. Ltd.	South Street, Preston
Line & Cable Accessories Ltd.	270 Evans Ave., Toronto
Magnetic Coil Co.	67 Ontario St. S., Kitchener
Markel Electric Products Ltd.	23 Lewis St., Fort Erie
Marr Electric Ltd.	160 Perth Ave., Toronto
Mellon Electric Limited	370 Olivewood Rd., Toronto
Monitor Industries (Windsor) Ltd.	1527 Crawford St., Windsor
Morganite Carbon Products Canada, Ltd.	195 Eastern Ave., Toronto
Nepco of Canada Ltd.	Industrial Ave., Woodstock
Neosid (Canada) Ltd.	10 Vansco Rd., Etobicoke
Nichols, R.H., Ltd.	4544 Dufferin St., Toronto
Noma Lites Canada Ltd.	1340 - 2nd Ave., Owen Sound
Osborne Electric Co. Ltd.	95 Wesley St., Etobicoke
Partonics (Canada) Ltd.	Bassett Avenue, Fort Erie
Pasteuray of Canada Ltd.	426 Cannon St. E., Hamilton
Pittsburgh Reflector of Canada Ltd.	105 Tycos Dr., Toronto
Powertronic Equipment Limited	50 Bermondsey Rd., Toronto
Regent Equipment Mfg. Co. Ltd.	296 Rexdale Blvd., Rexdale
Residential Lighting Studio Co. Ltd.	1514 Dundas St. W., Toronto
S. & C. Electric Canada Ltd.	8 Vansco Rd., Toronto
Service Lamp Co. Ltd.	197 King St., London
Setco Manufacturing Co. Ltd.	Don Mills
Slater, N., Co. Ltd.	2 Sydney St., Hamilton
Smith & Stone Limited	Georgetown
Stark Electronics Instruments Ltd.	Ajax
Steber-Woodhouse Ltd.	33 Ingram Dr., Toronto
Sterne Equipment Co. Ltd.	152 Lappin Ave., Toronto
Swift Devices Limited	14 George St., Hamilton
Taylor Electric Mfg. Co. Ltd.	625 Princess Ave., London
Telegraph Condenser Co. (Canada) Ltd.	50 Bertal Rd., Toronto
Toronto Metal Spinning Ltd.	32 Eastern Ave., Toronto
Triangle Conduit & Cable (Canada) Ltd.	Scarborough
Virnden, John C., Limited	19 Curity Ave., Toronto
Vulcan Electric Products Ltd.	3160 Dundas St. W., Toronto
Wakefield Lighting Ltd.	Commissioner's Rd., London
Waldman, Harvey, & Co.	45 Crockford Blvd., Scarborough
Walker Metal Products Ltd.	1500 Kildare Road, Walkerville
White-Rodgers Ltd.	Markham
Wilson, J.A., Lighting & Display Ltd.	280 Lakeshore Rd., Toronto 14
Woodhouse, W.J. Ltd.	15 Brandon Ave., Toronto
Manitoba:	
Advance Lighting Co.	106 Midland St., Winnipeg
Caswell, W.A.	190 Chestnut St., Winnipeg
Globe Electric Mfg. Co. Ltd.	446 Selkirk Ave., Winnipeg
Ideal Electric Mfg. Co. Ltd.	372 Selkirk Ave., Winnipeg
Lighting Materials Ltd.	803 Erin St., Winnipeg
L. & S. Electric Mfg. Ltd.	466-70 Ross Ave., Winnipeg
Super-Lite Electric Mfg. Co. Ltd.	1901 Logan Ave., Brooklands
Alberta:	
Technical Enterprises	6328 - 104th St., Edmonton
British Columbia:	
All-Brite Lighting (B.C.) Ltd.	650 Barnard St., Vancouver
Canadian Lighting Products Co.	319 W. Pender St., Vancouver
Duck, John, & Son, Limited	1246 Hornby St., Vancouver
Freeman, W., & Son	275 Woodland Drive, Vancouver
Lenkurt Electric Co. of Canada Ltd.	7018 Lougheed Hwy., N. Burnaby
Marine Electric Limited	137 W. 2nd St., North Vancouver
Radiant Mfg. Co.	557 Richards St., Vancouver
Vancouver Electric Boxes Ltd.	2060 W. Broadway, Vancouver
Vancouver Lighting Co. Ltd.	926 Hastings St., Vancouver
West Coast Electric Ltd.	1980 Cypress St., Vancouver
Western Lighting Fixture Co. Ltd.	462 East 5th Ave., Vancouver

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1958 - Concluded

Name of firm	Location of plant
(f) Wires and Cables	
New Brunswick:	
Western Wire & Cable Co. Ltd.	951 Fairville Blvd., Lancaster
Quebec:	
Aluminum Co. of Canada, Ltd.	Shawinigan Falls
Canada Wire & Cable Co. Ltd.	Durocher St., Montreal
Northern Electric Co. Ltd.	150 Metropolitan Blvd., Lachine
Phillips Electrical Co. (1953) Ltd.	5795 De Gaspé St., Montreal
Pirelli Cables Conduits Ltd.	77 Richelieu St., St. Johns
Royal Electric Co. (Que) Inc.	171 Hymus Blvd., Pointe Clare
Universal Wire & Cable Co. Ltd., The	2155 Moreau St., Montreal
Ontario:	
Boston Insulated Wire and Cable Co. Ltd.	118 Shaw St., Hamilton
Canada Wire & Cable Co. Ltd.	Laird Dr., Leaside
Canada Wire & Cable Co. Ltd.	Gilbertson Drive, Simcoe
Canadian General Electric Co., Ltd.	107 Park St., Peterborough
Federal Wire & Cable Co. Ltd.	265 Suffolk St., Guelph
General Wire & Cable Co. Ltd.	William St., Cobourg
Hawkesbury Wire & Cable Co. Ltd.	17 Laurier, Hawkesbury
Industrial Wire & Cable Ltd.	Index Rd., Toronto
Phillips Electrical Co. (1953) Ltd.	King St. W., Brockville
Pyrotex of Canada Ltd.	Trenton
Standard Wire & Cable Ltd.	70 Wingold Ave., Toronto
Triangle Conduit & Cables (Canada) Ltd.	756 Warden Ave., Scarborough
Manitoba:	
Canada Wire & Cable Co. Ltd.	Fort Garry
Telecables & Wires Ltd.	Pennell St., Fort Garry
Saskatchewan:	
Western Wire & Cable Co. Ltd.	Weyburn
Alberta:	
Western Wire & Cable Co. Ltd.	12357 - 127 Ave., Edmonton
British Columbia:	
Canada Wire and Cable Co. Ltd.	Annacis Island, New Westminster
Phillips Electrical Co. Ltd.	8330 Chester St., Vancouver
Western Wire & Cable Co. Ltd.	2015 Columbia St., Vancouver

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