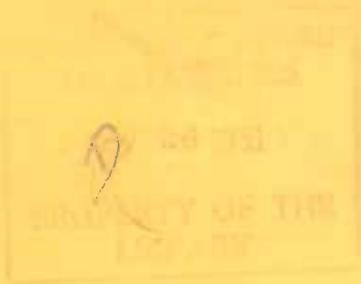


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GOVERNMENT OF CANADA

THE ELECTRICAL APPARATUS AND
SUPPLIES INDUSTRY

1950



OTTAWA
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THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY

1950

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NOTICE

The Industry and Merchandising Division of the Bureau of Statistics collects and compiles figures on (a) the primary industries in Canada—mining, forestry and fishing; (b) manufacturing; (c) construction, and (d) merchandising and services.

For the purpose of annual compilation and publication, the manufacturing industries have been classified into major groups, prefaced by two reports of a general nature, as follows:

- I Summary Report on Manufacturing Industries
- II Manufacturing Industries by Geographical Distribution
- III Foods and Beverages
- IV Tobacco and Tobacco Products
- V Rubber Products
- VI Leather Products
- VII Miscellaneous Manufactures
- VIII Textiles
- IX Wood and Paper Products
- X Printing Trades
- XI Operations in the Woods
- XII Iron and Steel Products
- XIII Transportation Equipment
- XIV Non-ferrous Metal Products
- XV Electrical Apparatus and Supplies
- XVI Non-metallic Mineral Products
- XVII Products of Petroleum and Coal
- XVIII Chemicals and Allied Products

This is the only report for Group XV. It gives separately the principal statistics for the five subdivisions of this major group.

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THE ELECTRICITY MARKET IN GREAT BRITAIN

The electricity market in Great Britain is a complex system involving the generation, transmission, and distribution of electricity. The market is characterized by a high degree of competition and a focus on efficiency and reliability. The government plays a significant role in regulating the market and ensuring that it operates in the public interest.

The market is divided into several segments, including the wholesale market, the retail market, and the distribution network. The wholesale market is where electricity is bought and sold in large quantities, while the retail market is where electricity is sold to individual consumers. The distribution network is responsible for delivering electricity to homes and businesses.

The market is also characterized by a high degree of volatility, with electricity prices fluctuating significantly over time. This is due to a number of factors, including changes in demand, weather conditions, and the availability of different energy sources.

The market is also characterized by a high degree of competition, with a number of different companies competing for a share of the market. This has led to a number of mergers and acquisitions, and the market is becoming increasingly consolidated.

The market is also characterized by a high degree of innovation, with a number of new technologies being developed and deployed. This includes smart meters, which allow consumers to monitor their electricity usage in real-time, and renewable energy sources, which are becoming increasingly important in the market.

The market is also characterized by a high degree of regulation, with a number of different bodies responsible for overseeing the market. This includes the Office of Electricity Regulation (Ofgem), which is responsible for setting the rules of the market and ensuring that it operates in the public interest.

Year	Generation (TWh)	Transmission (TWh)	Distribution (TWh)
2010	100	10	10
2011	105	10	10
2012	110	10	10
2013	115	10	10
2014	120	10	10
2015	125	10	10
2016	130	10	10
2017	135	10	10
2018	140	10	10
2019	145	10	10
2020	150	10	10

THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY

1950

Production by firms in the Electrical Apparatus and Supplies Industry was valued at \$580,578,386 in 1950, an increase of 19.4 per cent over the 1949 total of \$486,286,355. The 382 firms which reported in this group for 1950 were distributed across Canada as follows: 1 in Nova Scotia; 81 in Quebec; 250 in Ontario; 17 in Manitoba; 4 in Alberta; and 29 in British Columbia. These plants gave employment to a total of 60,262 workers who were paid \$155,334,065 in salaries and wages. Materials worth \$260,306,027 were purchased for use in manufacturing processes and an additional \$5,136,183 were 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 material 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 manufactures 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 automobile and household use but excluding office and industrial machinery, amounted in value to about \$87 millions in 1950.

Statistics given in Tables 1 to 5 and 35 of this report cover only the concerns in the Electrical

Apparatus and Supplies Industry. Tables 6 to 33 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 and ironers. Table 34 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 Radios 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 2.

As a result of the adoption of the Standard Industrial Classification it was necessary to re-classify some firms to and from the Electrical Apparatus and Supplies group. This means that the data since 1949 are not strictly comparable with previous years; however, a special study by the Bureau at that time indicated that the net effect of these changes was so small as to be almost negligible.

TABLE 1. Principal Statistics of the Electrical Apparatus and Supplies Industry, 1946-1950

Year	Number of plants	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works	Net value ¹ of production
			\$	\$	\$	\$	\$
1946	266	43,998	74,510,479	2,664,455	101,939,272	234,572,653	129,968,926
1947	296	52,736	103,891,016	3,515,897	162,131,266	366,506,203	200,859,040
1948	314	53,873	122,113,644	4,046,490	180,344,829	425,725,279	241,333,960
1949	365	55,916	137,278,521	4,483,959	212,460,413	486,286,355	269,341,983
1950	382	60,262	155,334,065	5,136,183	260,306,027	580,578,386	315,136,176
Percent change 1950 from 1949	—	+7.8	+13.2	+14.5	+22.5	+19.4	+17.0

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

1. Gross value less cost of materials, fuel and electricity.

ELECTRICAL APPARATUS AND SUPPLIES

TABLE 2. Principal Statistics, by Sub-groups¹ 1949 and 1950

Group	Number of plants	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
1949						
Batteries	24	2,140	5,232,393	289,978	18,509,992	31,167,039
Heavy Electrical Machinery and Equipment	46	19,490	51,522,690	1,627,879	63,755,040	158,150,426
Radios and Radio Parts	61	7,363	16,555,750	367,158	23,941,389	51,466,388
Refrigerators, Vacuum Cleaners and Appliances	89	7,327	16,999,953	605,404	40,784,883	84,494,340
Miscellaneous Electrical Products	145	19,596	46,967,735	1,593,540	65,469,109	161,008,162
Total	365	55,916	137,278,521	4,483,959	212,460,413	486,286,355
1950						
Batteries	26	2,174	5,555,442	340,595	21,202,084	34,557,606
Heavy Electrical Machinery and Equipment	49	20,825	57,380,065	1,689,741	73,966,855	187,758,282
Radios and Radio Parts	67	8,499	20,047,764	458,050	31,257,857	66,597,406
Refrigerators, Vacuum Cleaners and Appliances	95	9,518	22,843,556	888,578	59,570,593	120,929,701
Miscellaneous Electrical Products	145	19,246	49,507,238	1,759,219	74,308,638	170,735,391
Total	382	60,262	155,334,065	5,136,183	260,306,027	580,578,386

Note. Above breakdown not available before 1949.

1. Sub-division made on basis of principal products.

TABLE 3. Principal Statistics, by Provinces, 1949 and 1950

Province	Number of plants	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
1949						
Nova Scotia	1	15,895	38,364,493	1,044,311	46,603,233	117,519,285
Quebec	74					
Ontario	246	38,905	96,640,088	3,341,154	161,768,924	359,403,073
Manitoba	17	634	1,167,992	64,815	2,684,977	5,947,095
Alberta	3	11	15,681	1,660	14,707	40,400
British Columbia	24	471	1,090,267	32,019	1,388,572	3,376,502
Canada	365	55,916	137,278,521	4,483,959	212,460,413	486,286,355
1950						
Nova Scotia	1	16,507	42,432,558	1,272,596	61,645,338	142,592,814
Quebec	81					
Ontario	250	42,628	110,542,316	3,756,579	194,002,398	428,337,963
Manitoba	17	632	1,190,121	66,387	2,887,825	5,864,224
Alberta	4	17	26,040	2,362	24,597	64,713
British Columbia	29	478	1,143,030	38,259	1,745,869	3,718,672
Canada	382	60,262	155,334,065	5,136,183	260,306,027	580,578,386

TABLE 4. Products Made in the Electrical Apparatus and Supplies Industry, 1949 and 1950

Product	1949		1950	
	Quantity	Selling value at works	Quantity	Selling value at works
	Number	\$	Number	\$
Apparatus:				
Converter equipment (see Table 30)	—	1,719,693	—	2,897,888
Industrial control (see Table 23)	—	8,071,596	—	7,807,546
Generators and parts (see Table 6)	—	8,197,221	—	12,344,305
Motors (x) and parts (see Table 7)	—	27,005,087	—	35,445,037
Switchgear and protective equipment (x) (see Table 10)	—	26,974,003	—	29,787,393
Transformers and parts (x) (see Table 8)	—	35,524,976	—	38,785,064
welding apparatus (x) (see Table 22)	—	2,718,358	—	2,907,126
Appliances:				
Cooking and heating equipment:				
Stoves, rangettes, cooking plates (x) (see Table 21)	—	11,630,072	322,238	12,194,399
Heating elements for stoves, etc. (x)	—	1,074,868	—	2,196,700
Radiant heaters, electric (x)	35,602	197,389	66,503	467,199
Unit heaters (x)	—	102,041	11,207	198,690
Heating pads, electric (x)	115,684	488,758	134,846	506,491
Water heaters, electric (x) (see Table 24)	167,209	1,364,555	203,277	1,657,538
Flat irons, electric (x) (see Table 17)	439,634	2,325,721	472,531	2,722,112
Toasters, electric (x) (See Table 18)	395,316	2,480,796	325,480	1,827,533
All other cooking and heating apparatus	—	2,645,240	—	3,946,039
Motor-driven equipment:				
Food mixers, electric	53,392	1,335,468	78,303	1,929,135
Vacuum cleaners and parts (x) (see Table 11)	—	7,807,553	—	8,540,901
Fans, A.C. and D.C.:				
Portable type	117,439	1,014,841	118,471	1,075,718
All other types (x)	41,779	554,303	47,639	632,396
All other motor driven appliances, including washing machines, air conditioners, etc.	—	8,502,859	—	12,120,599
Refrigeration equipment (x) (see Tables 25 and 26)	—	48,408,212	—	78,920,901
Batteries:				
Storage batteries (see Table 13)	—	15,287,518	—	17,105,282
Dry cell batteries (see Table 12)	—	8,285,999	—	8,747,378
Parts and supplies for batteries, and wet cell type batteries	—	2,204,153	—	2,044,996
Conduit and fittings (x) (see Table 9)	—	4,967,335	—	6,629,734
Cutouts and fuses (see Table 27)	—	2,697,836	—	3,168,651
Electro-therapeutic apparatus (X-ray machines, therapeutic lamps, etc.)	—	779,861	—	569,525
Electrical industrial heating equipment:				
Furnaces:				
Resistance type	—	402,696	—	364,651
Other types	—	—	—	—
Industrial ovens	—	936,956	—	1,574,967
Other industrial heating equipment	—	—	—	—
Instruments and meters:				
Watt hour meters	597,500	7,204,878	488,932	6,668,164
Electrical indicating instruments (x)	—	356,109	—	399,243
Other electrical instruments and meters (x)	—	1,203,156	—	1,284,473
Parts for instruments and meters	—	524,413	—	669,968
Lamps (bulbs):				
Incandescent (except therapeutic) (see Table 19)	89,174,084	10,076,304	103,086,840	13,371,032
Fluorescent (see Table 19)	5,359,484	3,383,134	5,138,552	4,110,949
Lighting fixtures (x) (see Table 28)	—	14,493,277	—	19,329,210
Line material, including pole line hardware (x) (see Table 31) ..	—	5,877,776	—	4,499,259

ELECTRICAL APPARATUS AND SUPPLIES

TABLE 4. Products Made in the Electrical Apparatus and Supplies Industry, 1949 and 1950
Concluded

Product	1949		1950	
	Quantity	Selling value at works	Quantity	Selling value at works
	Number	\$	Number	\$
Radio apparatus and supplies:				
Radio receiving sets for civilian use (x) (see Table 14).....	791,051	29,411,911	820,772	33,497,745
Phonographs, electrically operated.....	34,988	689,831	17,512	562,849
Record players, electrically operated.....	39,549	624,140	26,760	494,215
Radio transmission equipment for civilian use	—	3,146,428	—	2,311,703
Radio condensers.....	—	1,824,148	—	2,270,380
Television equipment — Complete sets (see Table 15)	9,189	2,010,271	32,971	7,764,952
Other equipment	—	1,612	—	165,413
All other radio equipment, except tubes and transformers.....	—	5,908,606	—	8,808,492
Signal systems:				
Traffic.....	—	333,149	—	367,691
Fire alarm	—	689,365	—	368,305
Interior signal and clock systems, excluding telephone	—	477,223	—	573,846
Vacuum tubes (see Table 16).....	—	3,305,242	—	5,871,221
Wiring devices (x) (see Table 29)	—	12,414,883	—	14,805,491
Wires and cables (x) (see Table 20)	—	76,135,649	—	83,915,561
Miscellaneous:				
Fences, electric (x)	13,308	115,336	10,463	99,144
Rectifiers for storage battery charging ¹	—	493,947	—	503,903
Telephone materials, including exchange switchboards, tele- phones, transmitters, etc.....	—	32,530,935	—	29,720,985
All other products, not separately specified	—	33,565,707	—	34,756,141
Amount received for repair work	—	3,782,961	—	4,272,117
Total all products	—	486,286,355	—	580,578,386

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) indicates that the article was made also in other industries. For the total Canadian output of certain major items, see Tables 6 to 33.

1. Includes "fast" battery chargers.

TABLE 5. Materials Used in the Electrical Apparatus and Supplies Industry 1949 and 1950

Material	Unit of measure	1949		1950	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Aluminum:					
Castings.....	lb.	2,927,630	1,831,492	3,693,884	2,496,921
Ingots.....	lb.	615,193	141,608	989,730	201,439
Punchings.....	lb.	265,001	137,781	126,136	87,850
Rods and bars.....	lb.	14,799,648	3,039,393	7,945,145	1,831,254
Scrap.....	lb.	—	5,730	—	17,644
Sheets.....	lb.	2,210,957	704,942	3,090,814	1,094,498
Other.....		—	472,258	—	458,221
Ammonium chloride (sal ammoniac)	lb.	2,346,488	142,478	2,657,067	164,633
Antimony	lb.	125,541	43,820	136,489	31,220
Argon	cu. ft.	1,022,077	72,974	613,702	86,874

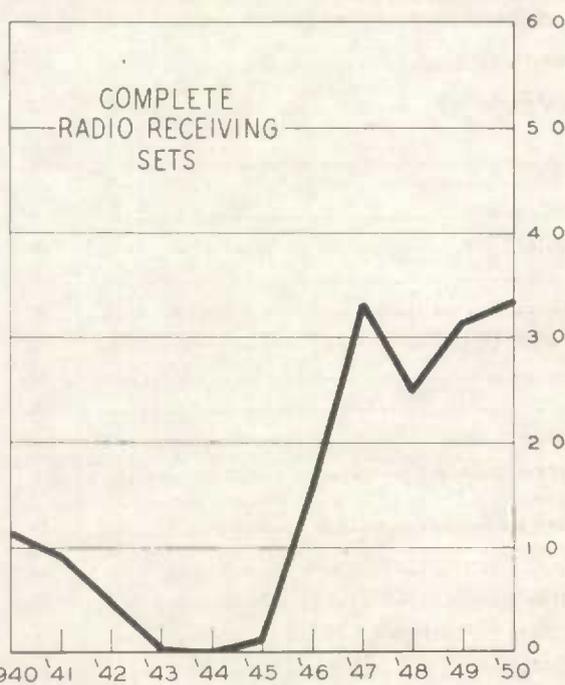
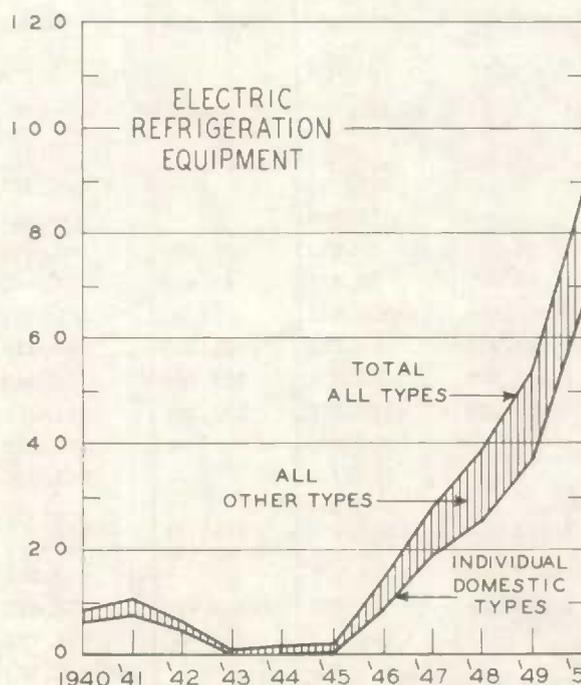
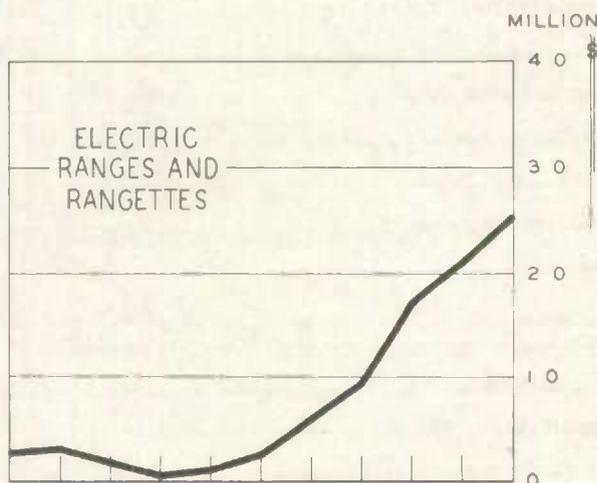
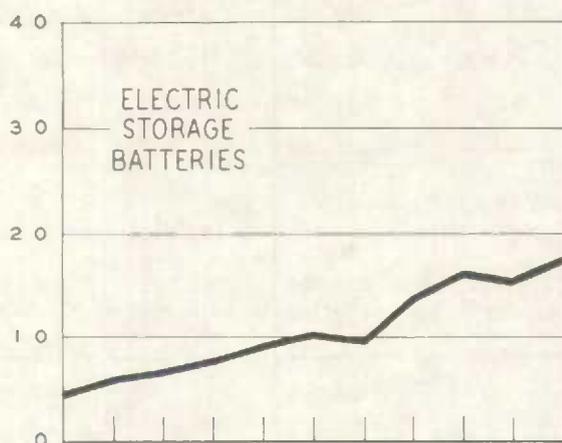
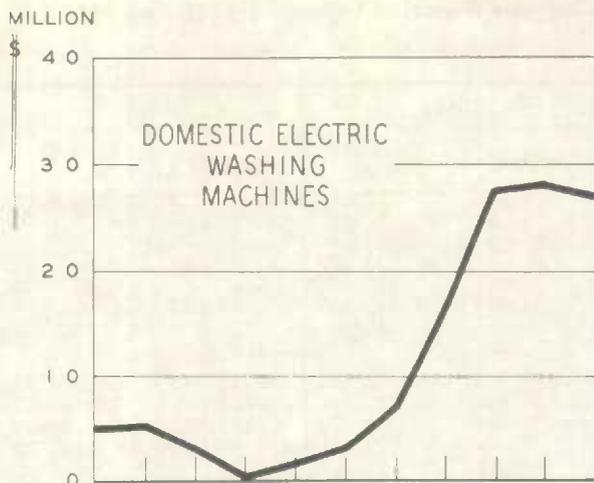
TABLE 5. Materials Used in the Electrical Apparatus and Supplies Industry 1949 and 1950
Continued

Material	Unit of measure	1949		1950	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Battery boxes and containers		—	1,524,201	—	2,221,968
Brass:					
Castings	lb.	392,841	154,973	1,124,337	580,215
Ingots	lb.	706,484	135,996	849,957	188,472
Rods and bars	lb.	2,395,385	694,216	2,978,220	933,784
Tubing and pipe	lb.	240,233	99,370	183,005	91,510
Sheets	lb.	1,624,186	525,898	2,390,014	894,436
Lamp bases		—	949,645	—	921,485
Scrap	lb.	18,568	1,926	72,730	7,482
Other		—	562,671	—	1,021,688
Bronze:					
Castings	lb.	902,881	451,996	484,425	239,142
Rods and bars	lb.	858,476	301,921	1,125,127	422,342
Tubing and pipe	lb.	30,117	13,751	137,905	68,488
Sheets and plates	lb.	193,811	96,088	163,381	86,532
Scrap	lb.	62,071	7,110	59,376	5,646
Other		—	268,927	—	255,180
Carbon plates, blanks, etc.		—	198,517	—	252,946
Carbon brushes		—	105,926	—	107,217
Carbon electrodes		—	199,521	—	220,494
Chalk or whiting	lb.	645,422	14,261	1,526,945	25,485
Copper:					
Castings	lb.	299,574	128,927	298,680	114,027
Ingots, slabs, wire bars, etc.	lb.	439,288	111,873	535,737	171,956
Rods	lb.	88,417,421	19,085,355	105,198,389	25,918,540
Scrap	lb.	22,646	3,553	89,983	13,502
Sheets and plates	lb.	3,815,232	1,303,142	3,643,158	1,335,465
Tubing and pipe	lb.	1,331,381	554,175	2,514,659	1,277,439
Wire, bare	lb.	4,694,904	1,329,199	6,296,362	1,775,447
Wire, enamelled	lb.	6,802,250	2,665,749	10,426,090	3,488,064
Wire, other insulated		—	3,879,465	—	4,381,263
Other		—	571,583	—	562,262
Cotton and linen sheets, tapes, etc.		—	2,957,844	—	3,283,926
Glass bulbs, tubing and cane		—	1,916,662	—	2,222,976
Insulating varnishes and japans		—	543,811	—	883,831
Insulating waxes		—	806,912	—	747,495
Insulators, porcelain		—	2,238,788	—	2,029,871
Iron and steel (except alloy):					
Pig iron	Net tons	7,443	355,291	8,535	422,652
Iron castings	Net tons	9,262	2,359,496	7,797	2,719,030
Steel bars	Net tons	10,936	1,375,222	13,827	1,775,615
Steel castings	Net tons	2,372	671,016	1,792	620,273
Steel forgings	Net tons	1,064	428,390	880	319,938
Steel rods	Net tons	3,581	865,917	4,494	1,078,599
Iron and steel pipe		—	2,564,308	—	3,018,249
Steel strips	Net tons	13,782	2,020,249	13,341	2,651,995
Steel sheets	Net tons	63,514	7,211,497	81,689	11,991,712
Steel wire	Net tons	13,143	2,189,400	12,249	1,949,840
Structural steel	Net tons	8,136	1,013,684	10,348	1,439,900
Steel stampings		—	1,461,336	—	1,426,307
Bolts, nuts and screws		—	1,327,654	—	1,884,534
Scrap iron and steel	Net tons	3,586	79,109	4,491	148,640
Other iron and steel		—	733,049	—	912,571

TABLE 5. Materials Used in the Electrical Apparatus and Supplies Industry, 1949 and 1950
Concluded

Material	Unit of measure	1949		1950	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Alloy steel:					
Carbon and alloy tool steel, including high speed ..	Net tons	—	292,990	—	367,721
Stainless	—	—	217,358	—	675,115
Silicon sheets and strips	Net tons	17,344	4,348,868	21,083	5,357,193
Other alloy steel	—	—	136,244	—	148,838
Lead:					
Pig (pure)	lb.	39,332,518	6,406,435	40,479,222	5,597,177
Antimonial	lb.	22,187,542	3,151,588	27,322,903	4,154,842
Scrap	lb.	88,466	8,300	107,702	7,407
Other	—	—	120,066	—	148,120
Lead oxide (litharge and red lead)	lb.	4,286,765	805,917	5,292,832	867,747
Lumber	M bd. ft.	12,286	1,148,867	12,926	1,206,069
Manganese dioxide	lb.	8,016,083	307,273	8,971,138	355,655
Mercury	lb.	9,137	17,820	6,534	12,778
Mica	lb.	531,149	716,261	485,602	780,598
Nickel-silver, all forms	—	—	167,264	—	182,860
Nitrogen	cu. ft.	1,855,152	30,091	2,188,214	28,361
Oil:					
Transformer	Imp. gal.	2,421,910	838,034	2,657,933	1,000,685
Switch	Imp. gal.	4,451	2,113	8,584	4,960
Paints, stains, lacquers, etc.	—	—	1,780,945	—	2,474,291
Radio cabinets	—	—	4,408,655	—	5,887,317
Radio parts for assembling	—	—	12,172,633	—	15,710,306
Radio tubes purchased and used to equip radio receiving sets made by manufacturer in own plant	No.	4,317,488	2,370,837	5,268,964	3,419,100
Refrigerator cabinets	—	—	2,281,992	—	1,769,063
Refrigerator parts	—	—	15,022,338	Not available separately	
Rubber:					
Crude	lb.	930,503	177,511	903,453	227,848
Other	—	—	965,746	—	1,662,709
Resistance wire	—	—	732,167	—	826,065
Silk, artificial	lb.	16,841	25,972	190,359	311,229
Silver	Troy oz	49,065	53,801	67,616	72,962
Steel tanks	No.	—	902,338	—	877,064
Sulphuric acid, 100%	lb.	9,249,180	138,857	11,425,758	168,831
Talc	lb.	1,630,039	20,796	950,596	10,349
Tin	lb.	180,228	156,587	275,361	271,078
Tungsten wire	—	—	122,053	—	208,204
Wood battery separators	—	—	636,252	—	993,949
Zinc:					
Ingots and bars	lb.	2,912,705	349,355	5,836,101	881,275
Sheets	lb.	102,108	20,490	40,158	10,541
Other	—	—	870,276	—	922,219
Zinc chloride	lb.	1,377,005	—118,007	1,561,576	74,628
Electric motors purchased	—	—	1,394,214	—	2,018,732
All other materials	—	—	68,881,430	—	99,480,568
Containers and packing material	—	—	4,489,626	—	5,550,593
Total Materials	—	—	212,460,413	—	260,306,027

PRODUCTION* IN CANADA FROM ALL INDUSTRIES OF SPECIFIED ELECTRICAL PRODUCTS 1940-1950



* PRODUCTION = SELLING VALUE AT WORKS

TABLE 5. Production¹ of Electric Generators and Parts, 1949 and 1950

	Number	Total rating	Selling value at works
			\$
1949			
A.C., 1000 k.v.a. and under:			
500 r.p.m. and above	137	17,544 k. v. a.	395,684
Under 500 r.p.m.	7	1,200 k. v. a.	41,000
A.C., 1001 k.v.a. and above, all speeds	28	540,670 k. v. a.	6,787,077
D.C. and including exciters:			
$\frac{1}{2}$ k.w. and $\frac{3}{4}$ k.w.	—	—	—
1 k.w. to 1000 k.w.	50	2,202 k. w.	186,271
1001 k.w. and over	3	4,000 k. w.	55,500
Accessories and parts for generators	—	—	731,689
Total	—	—	8,197,221
1950			
A.C., 1000 k.v.a. and under:			
500 r.p.m. and above	131	14,798 k. v. a.	500,078
Under 500 r.p.m.	3	3,250 k. v. a.	89,000
A.C., 1001 k.v.a. and above, all speeds	28	847,837 k. v. a.	10,999,196
D.C. and including exciters:			
$\frac{1}{2}$ k.w. and $\frac{3}{4}$ k.w.	60	45 k. w.	7,248
1 k.w. to 1000 k.w.	460	6,496 k. w.	265,793
1001 k.w. and over	1	1,750 k. w.	45,100
Accessories and parts for generators	—	—	437,890
Total	—	—	12,344,305

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

TABLE 7. Production of Electric Motors and Parts, 1949 and 1950 (From All Industries)

	Number	Total rating	Selling value at works
		H.P.	\$
1949			
Single phase, induction:			
$\frac{1}{2}$ h.p. and under ¹	798,611	176,419	9,513,256
$\frac{1}{2}$ h.p. and $\frac{3}{4}$ h.p.	39,457	22,109	1,536,027
1 h.p. to 5 h.p., inclusive	14,271	23,452	1,135,454
Polyphase, induction:			
$\frac{1}{2}$ h.p. and under ¹	8,026	2,491	980,818
$\frac{1}{2}$ h.p. and $\frac{3}{4}$ h.p.	7,204	3,990	347,405
1 h.p. to 5 h.p., inclusive	25,865	60,207	2,564,656
D.C.:			
$\frac{1}{2}$ h.p. and under ¹	389,396	13,915	1,782,913
$\frac{1}{2}$ h.p. and $\frac{3}{4}$ h.p.	337	175	21,002
1 h.p. to 5 h.p., inclusive	96	197	22,449
Polyphase, induction:			
6 h.p. to 25 h.p., inclusive	7,877	87,628	2,071,634
26 h.p. to 100 h.p., inclusive	2,294	108,633	1,501,163
101 h.p. to 200 h.p., inclusive	376	45,490	735,774
201 h.p. and over	154	39,459	646,898
D.C.:			
6 h.p. to 25 h.p., inclusive	34	427	34,984
26 h.p. to 100 h.p., inclusive	49	1,898	112,695
101 h.p. to 200 h.p., inclusive	10	1,300	50,500
201 h.p. and over	5	1,225	210,000
Railway and vehicle motors, A.C. and D.C.	1,033	208,959	3,024,659
Shaded pole type motors, all ratings	52,321	—	177,700
Universal type motors, all ratings	15,770	—	110,792
Synchronous motors and condensers:			
1000 h.p. or k.v.a. and under	99	24,346 k. v. a.	771,737
1001 h.p. or k.v.a. and over	14	66,677 k. v. a.	933,771
Accessories and parts for motors	—	—	2,094,198
Total	—	—	30,380,485

1. Does not include shaded pole or universal motors.

TABLE 7. Production of Electric Motors and Parts, 1949 and 1950 (From All Industries)— Concluded

	Number	Total rating	Selling value at works
		H.P.	\$
1950			
Single phase, induction:			
$\frac{1}{8}$ h.p. and under ¹	1, 115, 015	244, 803	13, 761, 670
$\frac{1}{2}$ h.p. and $\frac{3}{4}$ h.p.	43, 155	24, 697	1, 995, 760
1 h.p. to 5 h.p., inclusive	18, 460	33, 879	1, 561, 067
Polyphase, induction:			
$\frac{1}{8}$ h.p. and under ¹	5, 281	1, 762	179, 425
$\frac{1}{2}$ h.p. and $\frac{3}{4}$ h.p.	11, 858	7, 711	558, 073
1 h.p. to 5 h.p., inclusive	45, 112	117, 737	4, 140, 703
D.C.:			
$\frac{1}{8}$ h.p. and under ¹	443, 830	15, 015	1, 258, 198
$\frac{1}{2}$ h.p. and $\frac{3}{4}$ h.p.	467	263	35, 028
1 h.p. to 5 h.p., inclusive	258	586	49, 056
Polyphase, induction:			
6 h.p. to 25 h.p., inclusive	17, 661	187, 838	3, 176, 723
26 h.p. to 100 h.p. inclusive	2, 951	144, 733	2, 063, 698
101 h.p. to 200 h.p., inclusive	335	49, 380	949, 356
201 h.p. and over	83	24, 267	368, 243
D.C.:			
6 h.p. to 25 h.p., inclusive	167	2, 049	126, 678
26 h.p. to 100 h.p., inclusive	151	7, 398	271, 240
101 h.p. to 200 h.p., inclusive	8	1, 200	16, 640
201 h.p. and over	3	6, 600	55, 840
Railway and vehicle motors, A.C. and D.C.	766	258, 155	3, 064, 940
Shaded pole type motors, all ratings	86, 599	—	392, 298
Universal type motors, all ratings	63, 294	—	398, 382
Synchronous motors and condensers:			
1000 h.p. or k.v.a. and under	132	47, 926 k. v. a.	893, 643
1001 h.p. or k.v.a. and over	13	80, 150 k. v. a.	1, 981, 472
Accessories and parts for motors	—	—	2, 691, 978
Total	—	—	39, 990, 111

1. Does not include shaded pole or universal motors.

TABLE 8. Production of Transformers, by Types, 1949 and 1950

Type	1949			1950		
	Number	Total rating	Selling value at works	Number	Total rating	Selling value at works
		k.v.a.	\$		k.v.a.	\$
Distribution transformers 200 k.v.a. and under, and 15,000 volts and below	72, 232	—	13, 426, 044	44, 871	—	9, 859, 721
Power transformers, 201 k.v.a. to 7,500 k.v.a., inclusive, and over 15,000 volts to and including 132,000 volts	1, 185	—	7, 769, 168	1, 141	—	8, 690, 631
Power transformers, over 7,500 k.v.a. or over 132,000 volts	111	2, 085, 770	6, 737, 137	142	3, 911, 129	10, 409, 281
Feeder regulators:						
Induction type	50	7, 136	355, 775	22	2, 185	110, 114
Step voltage type	121	—	638, 394	177	—	857, 470
Current transformers	16, 932	—	948, 833	12, 468	—	872, 378
Potential transformers	4, 663	—	531, 250	3, 890	—	558, 012
Constant current transformers	53	—	34, 400	83	—	64, 939
Luminous tube transformers	19, 146	—	425, 550	30, 121	—	545, 647
Ignition transformers	67, 843	—	717, 486	115, 420	—	1, 230, 855
Radio transformers	269, 358	—	425, 996	551, 688	—	505, 150
Fluorescent transformers and ballasts	550, 523	—	2, 130, 618	760, 291	—	3, 179, 924
All other transformers	—	—	1, 139, 124	—	—	1, 419, 114
Parts and supplies	—	—	245, 201	—	—	595, 651
Total	—	—	35, 524, 976	—	—	33, 898, 937

TABLE 9. Production of Conduit¹ for Electrical Wiring, 1949 and 1950

Item	1949		1950	
	Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$
Rigid conduit:				
Iron..... lb.	20,972,169	2,858,583	28,616,000	4,035,937
Electrical metallic tubing..... lb.	2,050,646	569,747	2,557,000	668,167
Flexible conduit (steel and non-metallic)..... ft.	3,027,124	158,615	2,334,693	121,984
Total	—	3,586,945	—	4,826,088

1. Does not include aluminum conduit.

TABLE 10. Production of Electrical Switch Gear and Protective Equipment (Except telephone switchboards) 1949 and 1950

Item	Selling value at works	
	1949	1950
	\$	\$
Switchboard panels and equipment.....	6,839,995	9,349,198
Panel boards and cabinets.....	2,825,555	3,151,957
Lightning arresters, other than radio:		
15,000 volts and under.....	521,885	378,061
Over 15,000 volts.....	355,684	351,276
Power circuit breakers.....	6,233,205	6,792,484
Low voltage air circuit breakers.....	2,006,208	2,041,437
Disconnecting switches:		
Up to and including 15,000 volts.....	733,532	868,680
Over 15,000 volts.....	1,652,813	1,187,427
Switches, enclosed safety type.....	3,625,920	3,282,835
Generator voltage regulators and accessories.....	102,927	183,742
Current limiting apparatus.....	167,213	205,657
Relays.....	473,574	603,692
Parts and supplies for above.....	730,097	509,613
Other protective equipment.....	1,289,131	1,134,913
Total	27,557,739	30,040,972

TABLE 11. Production of Electric Vacuum Cleaners and Parts, 1941-1950 (From all Industries)

Year	Floor Models ¹		Cylinder Models		Hand Models		Attachments and parts		Total	
	Number	\$	Number	\$	Number	\$	Number	\$	Number	\$
1941.....	41,169	1,580,915	Included		3,325	55,335	—	319,788	—	1,956,038
1942.....	34,547	1,306,686	under		487	9,943	—	245,674	—	1,562,303
1943.....	2,577	79,850	floor		1,586	18,662	—	143,379	—	241,891
1944.....	1,403	30,955	models		494	6,037	—	227,406	—	264,398
1945.....	14,220	580,542			—	—	—	345,942	—	926,484
1946.....	24,274	1,228,992	31,247	1,158,844	—	—	—	731,038	—	3,119,874
1947.....	42,748	2,198,136	62,547	2,610,013	—	—	—	1,014,807	—	5,822,956
1948.....	33,583	1,992,757	85,002	4,008,347	1	19	—	825,821	—	6,827,004
1949.....	34,308	1,985,022	106,952	5,021,712	Not available for publication		—	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

1. Includes upright models only since 1946 but both upright models and cylinder type models for earlier years.

2. Includes hand models.

TABLE 12. Production of Dry Cell Batteries, 1949 and 1950

Type		Quantity	Selling value at works
			\$
1949			
Dry cell:			
6 inch batteries	No. of cells	2,438,255	946,623
Radio batteries for portable sets	No. of cells	22,985,666	1,081,450
Radio batteries for non-portable sets	No. of cells	51,541,263	4,098,656
Flashlight batteries	No. of cells	27,891,291	1,962,098
Hearing-aid batteries:			
"A" batteries	No. of cells	747,110	87,694
"B" batteries	No. of cells	2,545,429	101,895
All other dry batteries	No. of cells	57,493	7,583
Total			8,285,999
1950			
Dry cell:			
6 inch batteries	No. of cells	2,624,585	1,061,414
Radio batteries for portable sets	No. of cells	15,514,944	814,125
Radio batteries for non-portable sets	No. of cells	53,594,834	4,387,535
Flashlight batteries	No. of cells	33,110,118	2,316,529
Hearing-aid batteries:			
"A" batteries	No. of cells	919,145	98,694
"B" batteries	No. of cells	1,452,095	69,081
All other dry batteries	No. of cells		
Total			8,747,378

TABLE 13. Production of Electric Storage Batteries, by Types, 1949 and 1950

Type	1949		1950	
	Number	Selling value at works	Number	Selling value at works
		\$		\$
For internal combustion engine starting and ignition	1,439,604	12,727,407	1,657,660	14,330,087
For farm lighting plants (cells)	37,881	386,673	30,043	318,196
For railway service (cells)	16,551	630,992	16,061	622,795
For telephone switchboards	14,201	352,662	12,553	481,762
For all other purposes	—	1,189,784	33,276	1,352,442
Total	—	15,287,518	—	17,105,282

TABLE 14. Production of Complete Radio Receiving Sets, 1941-1950

Year	Number of sets	Selling value at works	Year	Number of sets	Selling value at works
		\$			\$
1941	386,372	9,215,364	1946	603,199	15,759,724
1942	177,149	4,682,401	1947	984,276	33,063,220
1943	979	18,840	1948	639,493	25,411,443
1944	—	—	1949	791,051	29,411,911
1945	50,317	979,173	1950	820,772	33,497,785

TABLE 15. Production of Television Sets, 1948-1950

Year	Number	Selling value at works
		\$
1948	4	931
1949	9,189	2,010,271
1950	32,971	7,764,952

TABLE 16. Production of Radio Receiving Tubes, 1941-1950

Year	Number	Selling value at works	Year	Number	Selling value at works
		\$			\$
1941	3,268,102	1,497,115	1946	5,933,363	2,438,268
1942	3,442,352	1,277,862	1947	7,985,211	3,747,175
1943	4,106,047	2,256,066	1948	4,040,949	1,831,086
1944	5,904,517	3,746,266	1949	4,682,943	2,787,421
1945	5,679,037	3,280,500	1950	8,181,925	4,964,463

TABLE 17. Production of Electric Flat Irons, 1941-1950

Year	Automatic		Not automatic		Total	
	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works
		\$		\$		\$
1941	72,214	286,273	199,321	343,915	271,535	630,188
1942	27,207	120,009	106,579	267,407	133,786	387,516
1943	11,795	70,698	46,688	141,853	60,403	212,551
1944	1,720	25,074	111,764	283,027	113,484	308,101
1945	52,268	237,420	126,991	357,717	179,259	595,137
1946	208,476	1,273,007	293,247	875,595	501,723	2,148,602
1947	222,304	1,526,635	218,234	750,553	440,538	2,277,188
1948	233,437	2,224,472	138,213	425,610	371,650	2,650,082
1949	322,060	2,245,242	145,186	401,715	467,246	2,646,957
1950	387,657	2,815,299	130,257	391,252	517,914	3,206,551

TABLE 18. Production of Electric Toasters, 1941-1950

Year	Domestic, automatic		Domestic, non-automatic		Domestic, sandwich ¹		Other ²		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
		\$		\$		\$		\$		\$
1941									196,030	404,047
1942									131,327	349,784
1943									7,788	52,476
1944									6,981	44,785
1945									142,044	493,248
1946	—	—	321,648	987,287	9,735	46,920	295	10,230	331,678	1,044,437
1947	1,183	17,816	275,467	1,011,548	35,014	174,265	1,023	13,886	312,687	1,217,515
1948	22,918	224,392	189,839	1,070,654	47,763	276,377	5,581	25,184	266,101	1,596,607
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

1. Does not include waffle-iron sandwich toaster combination.
2. Includes commercial type.

TABLE 19. Production of Electric Lamps (Bulbs), 1941-1950

Year	Incandescent type				Fluorescent type	
	Standard size		Miniature size		All sizes	
	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works
		\$		\$		\$
1941	34,421,898	5,714,415	25,407,836	1,249,669	Not Collected	
1942	40,982,505	6,631,613	27,159,064	1,405,313	separately	
1943	35,334,233	5,618,011	21,737,956	1,220,676		
1944	39,298,127	4,922,362	19,522,020	1,049,025	736,535	346,691
1945	44,397,206	5,628,626	20,216,048	1,151,350	1,509,555	696,291
1946	49,174,360	6,553,989	30,973,583	1,454,748	2,018,658	1,090,062
1947	53,990,563	7,172,059	38,580,950	1,768,405	2,899,330	1,522,527
1948	53,104,627	7,547,409	40,363,003	1,951,320	3,984,900	2,422,940
1949	54,793,834	7,823,042	34,380,250	2,253,262	5,359,484	3,383,134
1950	70,668,414	10,858,991	32,418,426	2,512,041	5,138,552	4,110,949

TABLE 20. Production of Electrical Wires and Cables, 1949 and 1950 (From All Industries)

Item	Selling value at works	
	1949	1950
	\$	\$
Un-insulated conductors:		
Copper, copperweld, including trolley wire	6,680,452	9,477,886
Copperweld-copper composite conductors and C.C.S.R.	861,698	590,517
Aluminum and A.C.S.R. conductors and aluminum alloys	15,420,301	10,428,332
Brass and bronze wires and cables	499,436	757,879
Galvanized steel conductors	225,138	300,981
Weatherproof wires. (All types)	6,650,442	7,078,687
Rubber insulated and braided. (Type R, RP, RH, RW, high voltage, inner member, aircraft, automobile, non-metallic underground, plain R.C., service entrance cable, all other R.C. types, n.o.p.)	7,037,538	7,623,918
Cambric insulated and braided. (All types where V.C. is used as the insulant)	590,295	683,357
Thermo-plastic wires and cables. (All types except telephone wires and cables)	4,066,135	5,621,496
Rubber insulated leaded power cable. (Including armoured cable of this type and L.C. control cable)	1,541,945	1,654,769
Cambric insulated leaded power cable (including armoured cable of this type)	665,871	631,761
Paper insulated leaded power cable (including armoured cable of this type)	3,104,580	3,085,849
Rubber insulated telephone wires (including PVC) (drop, duct, inside, station, bridle, etc.)	2,421,018	3,211,017
Paper insulated telephone cable (including armoured cable of this type)	13,006,930	9,659,788
Flexible cords(except telephone and switchboard) including jacketed types	2,215,013	3,080,842
Flexible armoured cable (AC and ACL)	3,024,723	3,711,147
Signal and control cable, non-leaded	205,867	352,482
Non-metallic sheathed cables	4,506,017	6,887,348
Magnet wires:		
Enamelled	4,626,652	7,382,018
All others	2,743,432	3,213,594
Asbestos insulated (all types)	778,855	1,031,056
Cord assemblies	842,813	1,503,158
All other types of wire and cable	4,069,731	2,891,054
Total	85,784,882	90,858,936

TABLE 21. Factory Sales of Stoves Made in Canada, 1948-1950 (Data Assembled from all Industries)

	1948	1949	1950
Coal, wood and sawdust burning cooking stoves and ranges including ranges with gas or electric extension	No. 155,297 \$ 11,836,707	114,749 9,295,200	92,102 8,001,309
Coal, wood and sawdust burning heating stoves and space heaters, including all heaters, circulators, Quebec, Box, Oak, Franklin, Globular and Laundry	No. 126,975 \$ 1,687,012	128,679 2,093,163	115,623 1,944,921
Solid fuel and gas combination or oil and gas combination (not including stoves or ranges with gas extension)	No. 8,358 \$ 894,492	11,313 1,292,254	12,330 1,465,949
Solid fuel and electric combination or oil and electric combination (not including stoves or ranges with electric extension)	No. 1,322 \$ 187,071	5,155 824,456	10,752 1,568,119
Gas cooking stoves and ranges (not combinations), including all styles with ovens	No. 38,216 \$ 2,998,189	53,779 4,851,380	50,751 4,574,383
Gas heating stoves and space heaters	No. 9,015 \$ 235,627	15,439 356,365	12,785 351,771
Gas cooking plates - no oven	No. 3,365 \$ 16,638	10,230 36,745	3,713 49,300
Electric cooking stoves or ranges (over 35 amperes), all styles with ovens ..	No. 125,027 \$ 14,878,936	135,810 19,472,494	160,380 23,491,183
Electric rangettes, including cord attachment and oven as one unit	No. 66,708 \$ 2,269,117	61,692 2,321,702	50,722 1,677,200
Electric cooking plates and grills, including stoves for glass coffee makers ..	No. 246,528 \$ 1,183,915	245,584 1,246,156	259,240 1,038,011
Oil (kerosene) and gasoline cooking stoves and ranges	No. - \$ -	-	43,649 315,534
Oil (kerosene) and gasoline heating stoves and space heaters	No. 229,131 \$ 2,227,416	182,696 2,894,026	- -
Fuel oil (distillate) cooking stoves and ranges	No. - \$ -	-	10,514 678,977
Fuel oil (distillate) heating stoves and space heaters	No. - \$ -	-	62,594 2,690,955
Total	\$ 38,415,120	44,683,941	47,847,612

TABLE 22. Production of Electric Welding Apparatus and Welding Rod¹, 1941-1950

Year	Welding Apparatus		Welding Rod ²	
	Electric arc welding equipment with controls	Other electric welding apparatus	Quantity	Value of Sales
	\$	\$	Tons	\$
1941	614,787	176,256	Not available separately	
1942	1,205,502	109,083		
1943	1,076,250	87,139		
1944	546,521	145,601		
1945	674,478	205,600		
1946	713,308	173,006		
1947	579,321	226,016	8,951	1,880,014
1948	764,033	232,215	10,494	2,315,402
1949	740,797	243,107	9,277	2,399,825
1950	894,397	108,406	10,436	2,708,819

1. Includes both gas and electric welding rod of ferrous type. Complete data on non-ferrous types not available.

2. Factory sales.

TABLE 23. Production of Industrial Control Equipment, 1949 and 1950

Item	Selling value at works	
	1949	1950
	\$	\$
Starting and control equipment for electric railway and vehicle motors	1, 186, 782	780, 207
(a) A.C. reduced voltage starters, manual and magnetic, for use with squirrel cage induction motors	563, 020	443, 189
A.C. manual starting switches for use with single phase and polyphase induction motors	332, 280	375, 285
A.C. magnetic control (exclusive of magnetic type in items (a) and (b)	802, 752	638, 317
Synchronous motor starters, all types	270, 155	157, 603
D.C. magnetic control, including D.C. magnetic switches (line starters)	551, 141	320, 485
(b) A.C. magnetic switches (line starters)	2, 201, 155	2, 239, 097
A.C. control centres (assemblies of A.C. magnetic switches)	1	455, 899
A.C. and D.C. drum switches and resistors for use with drum switches	110, 155	127, 202
A.C. and D.C. dial starters, rheostats and resistors other than those used with drum switches	219, 940	149, 046
A.C. and D.C. brakes	127, 296	123, 323
All other industrial control, including accessories	1, 706, 920	1, 997, 893
Total	8, 071, 596	7, 807, 546

1. Not available separately.

TABLE 24. Total Production of Domestic Water Tank Heaters, 1949 and 1950 (From all Industries)

Type	1949		1950	
	Number	Selling value at works	Number	Selling value at works
		\$		\$
Cast iron for coal, wood or oil (120 gallons or less)	8, 295	269, 567	4, 643	169, 263
Gas, automatic	16, 318	1, 126, 227	17, 393	1, 189, 536
Gas, not automatic	20, 402	242, 506	19, 660	230, 518
Electric, circulating type	26, 163	275, 286	38, 110	396, 373
Electric, immersion type	109, 880	351, 736	127, 979	544, 166
Clamp-on type	26, 094	133, 295	33, 977	152, 073
Electric, automatic storage tank type, including tank and controls	23, 045	1, 648, 405	28, 035	2, 072, 840
Total	230, 197	4, 047, 022	269, 797	4, 754, 769

TABLE 25. Production¹ of Electric Refrigeration Equipment, 1941-1950

Year	Individual, domestic type, complete, all sizes		All other types ²	Total
	Number	\$	\$	\$
1941	64, 093	7, 627, 255	2, 790, 761	10, 418, 016
1942	37, 792	4, 585, 701	2, 136, 121	6, 721, 822
1943	358	33, 470	764, 937	798, 407
1944	237	70, 690	1, 192, 282	1, 262, 972
1945	2, 418	355, 225	1, 244, 841	1, 600, 066
1946	56, 786	8, 597, 025	5, 164, 518	13, 761, 543
1947	108, 106	18, 584, 643	9, 323, 816	27, 908, 459
1948	138, 714	25, 164, 314	13, 140, 894	38, 305, 208
1949	206, 185	36, 736, 492	16, 672, 556	53, 409, 048
1950	340, 796	66, 032, 865	22, 629, 918	88, 662, 783

1. Production figures include equipment manufactured or assembled in Canada.

2. Includes ice-cream cabinets, display cases, condensing units only, beverage coolers, etc. See Table 26.

TABLE 26. Production of Electrical Refrigeration Equipment, 1949 and 1950 (From all Industries)

Type	1949		1950	
	Number	Selling value at works	Number	Selling value at works
		\$		\$
Individual domestic type, all sizes	206,185	36,736,492	340,796	66,032,865
Domestic condensing units only	37,029	2,582,202	70,822	4,699,932
Commercial reach-in boxes, complete	4,637	1,658,262	3,564	1,247,951
Commercial condensing units only	34,404	2,829,402	—	4,025,979
Commercial evaporators, finned coils, blower coils, and the like, only ..				
Ice cream cabinets, complete	7,693	2,544,889	9,508	3,085,360
Milk coolers, complete	929	234,619	1,838	566,909
Individual home and farm freezers, domestic type, complete, all sizes..	2,290	681,897	4,119	1,383,759
All other electric refrigeration	—	6,141,285	—	7,620,028
Total	—	53,409,048	—	88,662,783

TABLE 27. Production of Cutouts and Fuses, 1949 and 1950

Type	Selling value at works	
	1949	1950
	\$	\$
Primary cutouts:		
15,000 volts and less, except oil type	899,453	906,285
Over 15,000 volts, except oil type		
Oil type		
Individual cutouts for cartridge and plug fuses	205,401	83,211
Cartridge fuses	498,386	515,166
All other fuses	787,097	1,436,177
Renewal elements for fuses	224,339	137,956
Total	2,697,836	3,168,651

TABLE 28. Production of Electric Lighting Fixtures, 1949 and 1950 (From all Industries)

Type	Selling value at works	
	1949	1950
	\$	\$
Residential:		
Incandescent	2,337,754	2,631,620
Fluorescent		
Commercial:		
Incandescent	1,234,320	1,084,071
Fluorescent		
Industrial:		
Incandescent	903,776	1,070,147
Fluorescent		
Street-lighting	1,175,139	1,405,644
Searchlights and floodlights	270,929	354,938
Exterior lighting control devices and other lighting equipment ¹	1,342,122	1,726,197
Total	14,998,789	18,325,227

1. Does not include floor lamps or table lamps.

TABLE 29. Production of Wiring Devices, 1949 and 1950

Type	Selling value at works	
	1949	1950
	\$	\$
Sockets (lamp holders):		
Brass shell	761,296	455,885
Porcelain and moulded	788,058	902,489
Switches:		
Surface and flush types	895,496	1,074,097
Appliance	937,894	1,270,623
Canopy and pendant	59,555	106,247
All other	429,040	627,107
Receptacles (convenience outlets) single and duplex	953,579	1,180,865
Wall plates for switches and outlets	232,083	325,647
Attachment plugs, caps and cord connectors	313,965	348,802
Heater (or appliance) plugs and other plug devices	318,048	378,793
Cord sets (all types)	1,155,166	1,514,824
Outlet and switch boxes	2,224,781	2,030,584
Outlet box connectors	406,520	937,015
Other wiring devices(except automobile starting switches and time switches)....	3,226,300	3,652,513
Total	12,701,781	14,805,491

TABLE 30. Production of Converter Equipment, 1949 and 1950

Type	Number	Total rating	Selling value at works
			\$
1949			
Motor-generator sets:			
A.C. to D.C.	120	7,462 k.w.	542,860
A.C. to A.C.	11	26,475 k.v.a.	995,808
Synchronous converters and double current generators	—	—	—
Dynamotors, balancer sets and boosters	—	—	—
Mercury arc rectifiers for power purposes	}	—	181,025
Parts and supplies for converter equipment			
Total	—	—	1,719,693
1950			
Motor-generator sets:			
A.C. to D.C.	95	19,094 k.w.	448,143
A.C. to A.C.	428	42,620 k.v.a.	2,196,662
Synchronous converters and double current generators	—	—	—
Dynamotors, balancer sets and boosters	—	—	—
Mercury arc rectifiers for power purposes	}	—	253,083
Parts and supplies for converter equipment			
Total	—	—	2,897,888

TABLE 31. Production of Pole Line Hardware, 1941-1950 (From All Industries)

Year	Selling value at works	Year	Selling value at works
	\$		\$
1941.....	2,070,723	1946.....	2,908,760
1942.....	2,133,225	1947.....	4,388,444
1943.....	1,102,705	1948.....	5,525,302
1944.....	1,098,582	1949.....	6,987,494
1945.....	1,408,991	1950.....	6,395,063

TABLE 32. Production of Domestic Washing Machines, 1941-1950 (From All Industries)

Year	Hand		Electric				Other power		Total	
			Automatic		Conventional					
	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
		\$		\$		\$		\$		\$
1941.....	9,992	133,713			104,583	5,326,865	13,687	996,960	128,262	6,457,538
1942.....	7,816	105,551			52,198	3,062,705	7,237	549,680	67,251	3,717,936
1943.....	7,789	98,200			5,373	336,300	38	3,323	13,200	437,333
1944.....	10,162	146,873			22,967	1,467,458	729	64,255	33,858	1,678,586
1945.....	9,753	129,353	1		44,809	2,974,767	5,346	432,642	59,908	3,536,762
1946.....	8,209	126,820			96,386	7,083,844	10,595	1,036,278	115,190	8,246,942
1947.....	6,225	100,017			193,468	16,809,878	20,346	2,198,111	220,039	19,108,006
1948.....	8,062	149,429			296,800	27,573,419	29,611	3,530,832	334,473	31,253,680
1949.....	3,906	68,537			304,273	27,957,728	38,075	4,475,176	346,254	32,501,441
1950.....	2,239	40,228	30,310	4,344,593	252,926	22,815,441	15,323	1,961,979	300,798	29,162,241

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

TABLE 33. Production of Domestic Electric Ironing Machines, 1941-1950 (From All Industries)

Year	Operated by own motor		Attached to washing machine		Total	
	Number	\$	Number	\$	Number	\$
1941.....	2,109	124,458	231	6,221	2,240	130,679
1942.....	1,955	168,472	109	3,211	2,064	171,683
1943.....	77	5,973	1	25	78	5,998
1944.....	—	—	—	—	—	—
1945.....	9	1,030	—	—	9	1,030
1946.....	—	—	—	—	—	—
1947.....	7,923	529,231	—	—	7,923	529,231
1948.....	17,215	1,309,980	—	—	17,215	1,309,980
1949.....	18,058	1,349,433	—	—	18,058	1,349,433
1950.....	19,129	1,527,938	—	—	19,129	1,527,938

TABLE 34. Imports and Exports of Specified Electrical Products, 1949 and 1950

Product	1949		1950	
	Number	Value \$	Number	Value \$
(a) IMPORTS:				
Batteries for flashlights, and parts	—	44,467	—	11,141
Batteries, hearing-aid, and parts	—	196,740	—	285,465
Batteries, electric and galvanic primary, and complete parts, n.o.p.	—	153,005	—	193,917
Storage batteries, n.o.p., and parts, including separator walls of wood	—	933,426	—	677,823
Cleaners, electric vacuum	49,286	1,366,611	77,071	1,904,428
Cleaners, hand vacuum, and attachments, and complete parts of all vacuum cleaners	—	1,227,474	—	1,526,128
Cooking stoves, electric, valued at more than \$25 each	924	118,038	2,315	217,958
Space heating and cooking apparatus, electric, n.o.p.	—	1,097,414	—	1,694,048
Heating apparatus, electric, other than for cooking or space heating	—	495,820	—	628,741
Dynamos or generators, and parts	—	3,439,504	—	3,600,156
Fuses, fuse plugs and cutouts, electric, and complete parts, n.o.p.	—	424,387	—	450,749
Fluorescent tubes and other arc lamps	157,626	52,901	219,796	90,976
Lamps, electric, incandescent, carbon filament	3,343	818	8,119	2,187
Lamps, electric, incandescent, metal filament	4,078,510	141,539	4,541,906	289,294
Lights—electric head, side and tail lights, n.o.p.; electric torches or flashlights and parts	—	457,551	—	736,132
Electric light fixtures and appliances, n.o.p., and complete parts..	—	3,029,817	—	3,702,775
Lightning arresters, choke coils, reactors and other protective devices, and complete parts, n.o.p.,	—	133,715	—	168,472
Magnetos and complete parts, for the manufacture of internal combustion engines	—	64,250	—	97,980
Electrical instruments and apparatus of precision of a class or kind not made in Canada, as enumerated in tariff item 445n	—	1,665,514	—	1,960,161
Meters, electric, and complete parts	—	983,053	—	969,974
Motors, electric, valued at less than \$10 each	143,744	430,107	194,333	695,868
Motors, electric, n.o.p., valued at \$10 or over; and complete parts	—	8,153,930	—	10,383,443
Refrigerators, electric, domestic or store, completely equipped or not	633	96,570	11,088	1,555,977
Refrigerators, n.o.p., equipped or not	1,617	254,913	853	127,518
Refrigerators, parts of	—	6,990,816	—	13,669,226
Rheostats, controllers and other starting and controlling devices, and parts, n.o.p.	—	5,433,473	—	6,212,186
Sad irons, electric, and parts	—	192,553	—	282,901
Self-contained lighting outfits and parts, n.o.p.	—	94,853	—	47,614
Sockets, outlets and receptacles and parts, n.o.p.	—	536,634	—	651,131
Spark plugs, magnetos, n.o.p., and other ignition apparatus and parts	—	33,857	—	36,115
Switches, switchboards, n.o.p., circuit breakers and parts	—	4,826,407	—	5,774,577
Switch gear, flame proof, electric, for use underground in coal mines, and parts	—	263,043	—	69,034
Telegraph apparatus, electric, and parts	—	1,732,775	—	1,336,317
Telephone apparatus, electric, and parts	—	6,122,684	—	6,904,625
Transformers and parts, n.o.p.,	—	1,853,020	—	2,124,698
Washing machines, electric, domestic	225	21,530	1,721	163,568
Washing machines, domestic, parts of	—	1,597,100	—	2,381,905
Radio tubes	1,310,140	1,308,532	1,811,979	1,653,341
Radios, tourists' purchases	51,994	1,493,581	44,124	1,341,204
Radio receiving sets	1,882	203,380	2,826	254,004
Radio receiving sets, parts of, as enumerated in tariff item 445o	—	2,894,387	—	4,159,167
Radio tube parts as enumerated in tariff item 445p	—	589,830	—	1,205,263
Radio and wireless apparatus, electric, n.o.p.	—	6,782,893	—	9,448,800
Electric dry shaving machines, for use in removing human hair, and parts thereof	—	787,089	—	1,225,015
Electric steam turbo generator sets, 700 h.p. and greater, of a class or kind not made in Canada, and parts	22	3,846,111	6	3,015,889
Electric or gas welding apparatus, not including motors	—	2,887,315	—	3,000,056
Sound equipment	—	622,352	—	741,337
Electrical apparatus, n.o.p., and parts	—	7,990,748	—	9,477,772
Total Accounted For	—	84,066,527	—	107,147,056

TABLE 34. Imports and Exports of Specified Electrical Products, 1949 and 1950 - Concluded

	1949		1950	
	Number	Value \$	Number	Value \$
(b) EXPORTS:				
Batteries, storage, and parts	—	863,078	—	448,533
Batteries and parts, n.o.p.	—	441,730	—	316,186
Radio receiving sets (except batteries)	33,334	1,426,936	36,837	1,255,861
Radio and wireless apparatus, n.o.p. (except batteries)	—	1,538,982	—	2,132,834
Telegraph and telephone apparatus, n.o.p.	—	94,483	—	549,238
Transformers and parts	—	976,290	—	384,643
Dynamos and generators, and parts	—	930,493	—	398,354
Electric meters and parts	—	2,368,844	—	1,940,707
Electric motors and parts	120,111	1,904,442	161,178	1,503,655
Electric stoves and parts	3,163	337,680	1,067	140,968
Electric heating and cooking devices, domestic, n.o.p.	—	44,893	—	74,364
Spark plugs, magnetos and other ignition apparatus	—	544,174	—	852,760
Switches, sockets and other wiring devices	—	292,132	—	157,555
Electric lamps and shades	—	23,432	—	21,664
Electric light fixtures and parts	—	46,020	—	48,193
Washing machines, domestic, electric	11,548	1,195,078	12,601	1,380,422
Electric vacuum cleaners and parts	230	31,467	142	15,305
Refrigerators, electric, and parts	12,801	1,413,375	2,350	358,255
Electrical apparatus, n.o.p.	—	842,065	—	1,078,435
Total Accounted For	—	15,315,594	—	13,057,932

Note. Information on items not listed in the above table may be obtained by writing direct to the Dominion Bureau of Statistics, Ottawa.

TABLE 35. Employees and Earnings in the Electrical Apparatus and Supplies Industry, by Provinces, 1949 and 1950

Province	Number of employees				Total employees	Earnings		
	Supervisory and office		Production and related workers			Supervisory and office	Production and related workers	Total earnings
	Male	Female	Male	Female				
					\$	\$	\$	
1949								
Nova Scotia and Quebec	3,204	1,303	8,410	2,978	15,895	12,901,430	25,463,063	38,364,493
Ontario	5,747	2,734	22,054	8,370	38,905	25,954,926	70,685,162	96,640,088
Manitoba	120	35	281	198	634	444,647	723,345	1,167,992
Alberta	2	—	9	—	11	1,800	13,881	15,681
British Columbia	79	33	322	37	471	334,218	756,049	1,090,267
Canada	9,152	4,105	31,076	11,583	55,916	39,637,021	97,641,500	137,278,521
1950								
Nova Scotia and Quebec	3,298	1,359	8,848	3,002	16,507	14,717,699	27,714,859	42,432,558
Ontario	6,706	3,110	23,583	9,229	42,628	29,919,046	80,623,270	110,542,316
Manitoba	114	37	301	180	632	439,989	750,132	1,190,121
Alberta	4	—	13	—	17	3,800	22,240	26,040
British Columbia	82	38	321	37	478	391,187	751,843	1,143,030
Canada	10,204	4,544	33,066	12,448	60,262	45,471,721	109,862,344	155,334,065

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1950

Name of Firm	Location of Plant
(a) Batteries	
QUEBEC:	
Hart Battery Company Limited	170 St. George St., St. Johns
New Era Battery Company	2240 Bellechasse St., Montreal
Service Specialty Company Ltd.	360 St. James St. W., Montreal
ONTARIO:	
Burgess Battery Company	415 Buttrey St., Niagara Falls
Exide Batteries of Canada Ltd.	153 Dufferin St., Toronto
General Dry Batteries of Canada Ltd.	228 St. Helen's Ave, Toronto
Gould Storage Battery Limited	Hickson Avenue, Kingston
Hay Battery Co., Limited, The	1122-24 Barton St. E., Hamilton
La Salle Lead Products Ltd.	680 Wyandotte St. E., Windsor
National Carbon Limited	805 Davenport Road, Toronto
Prest-O-Lite Battery Co. Ltd.	1352-60 Dufferin St., Toronto
Radium Battery	374 Barton St. E., Hamilton
Willard Storage Battery Co. of Canada Ltd.	269 Campbell Ave., Toronto
MANITOBA:	
Globelite Batteries Limited	146 Alexander Ave., Winnipeg
Ray-O-Vac (Canada) Limited	Berry St. and Sargent, St. James
ALBERTA:	
Alberta Battery Company Ltd.	1312 Centre St. S., Calgary
Calgary Battery Co.	111 - 12th Ave. W., Calgary
BRITISH COLUMBIA:	
Adanac Battery Company Ltd.	2121 Kingsway, Burnaby
Arrow Batteries	901 E. Hastings, Vancouver
Francis Battery Service	1412 Quadra St. W., Victoria
Giant Battery Co.	1249 Granville St., Vancouver
Globelite Batteries (B.C.) Limited	8650 Barnard St., Vancouver
International Battery Corp. Limited	1130 Richards St., Vancouver
Island Battery Service	116 - 2nd Ave., Port Alberni
Jones Bros. Batteries	1314 Quadra St., Victoria
Marshall Batteries Limited	319 E. Second St., Vancouver
(b) Heavy Electrical Machinery and Equipment	
QUEBEC:	
Air Reduction Canada Limited	3081 Ontario St. E., Montreal
Beaupre Engineering Works Co.	3935 Newmarch St., Verdun
Bepco Canada Ltd.	4018 St. Catherine St. W., Montreal
Devoe Electric Switch Co. Ltd., The	863 St. Maurice St., Montreal
Electric Tamper & Equipment Co. of Canada Ltd.	2115 Workman St., Montreal
Electric Switchgear Ltd.	115 St. Denis Ave., St. Lambert, Montreal
Hughes, Benjamin, Electric Company	205 Vitre St. W., Montreal
Universal Wire & Cable Co. Ltd., The	2155 Moreau St., Montreal
Veejo Metal Products	1945 Frontenac St., Montreal
White, T.N., & Sons Limited	471 De La Friponne St., Montreal
World Electric Products Ltd.	143 Lagauchetiere St. W., Montreal
ONTARIO:	
Allanson Armature Mfg. Co. Ltd.	21 McCaul St., Toronto
Alliance Tool & Motor Co. Ltd., The	Grand and Queensway, Toronto
Amalgamated Electric Corp. Ltd.	384 Pape Ave., Toronto
Bepco Canada Limited	45 Niagara St., Toronto
Canadian Controllers Limited	169 Eastern Ave., Toronto
Canadian Electric Box Co. Ltd.	1402 Queen St. E., Toronto
Canadian General Electric Co. Ltd.	940 Lansdowne Ave., Toronto
Canadian General Electric Co. Ltd.	107 Park St., Peterborough
Canadian Westinghouse Co. Ltd. (2 divisions)	286 Sanford Ave. N., Hamilton
Cansfield Electrical Works Limited	Aberdeen Avenue, Hamilton
	260 Geary Ave., Toronto

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1950 - Continued

Name of Firm	Location of Plant
(b) Heavy Electrical Machinery and Equipment - Concluded	
ONTARIO - Concluded:	
Dominion Cutout Co. Limited	250 Richmond St. W., Toronto
Dominion Electric Mfg. Co. Ltd.	60 Leslie St., Toronto
Eastern Power Devices Limited	29 Wabash Ave., Toronto
Elora Industries Limited	Elora
English Electric Company of Canada Ltd.	George Street, St. Catharines
Ferranti Electric Limited	Industry St., Mount Dennis, Toronto
Fraser, D.M., Limited	54-56 Lombard St., Toronto
Hammond Manufacturing Co. Ltd.	40 Wellington St. W., Guelph
International Machinery Co.	73 Robert St., Hamilton
Jones & Moore Electric Co. Ltd.	296 Adelaide St. W., Toronto
Leland Electric Canada Ltd.	50 Crimea St., Guelph
Lincoln Electric Co. of Canada Ltd.	179 Wicksteed Ave., Leaside
Lovatt Engineering Limited	3545 Danforth Ave., Toronto
Moloney Electric Co. of Canada Ltd.	213-219 Sterling Road, Toronto
Packard Electric Co. Limited	Race Street, St. Catharines
Powerlite Devices Ltd. (P.&E.Division)	1870 Davenport Road, Toronto
Redmond Motors of Canada Ltd.	121 Woodworth Ave., St. Thomas
Reliance Electric & Engineering (Canada) Limited	130 Dennistoun St., Welland
Robbins & Myers Co. of Canada Ltd., The	Morrell Street, Brantford
Sangamo Company, Limited	215 Laird Drive, Leaside, Toronto
Shoe Machine Parts Ltd.	60 Tecumseh St., Toronto
Square D Company of Canada Limited	Industry Street, Toronto
Supreme Power Supplies Ltd.	Newcastle and Audley Sts., Mississauga
MANITOBA:	
Langley Electric Mfg. Co. Ltd.	677 Notre Dame Ave., Winnipeg
Pioneer Electric Limited	102 Hebert St., St. Boniface
BRITISH COLUMBIA:	
Cemco Electrical Mfg. Co. Limited	22 E. 5th Avenue, Vancouver
Electric Panel Manufacturing Ltd.	1250 Richards St., Vancouver
Langley Mfg. Company Ltd.	Granville Island, Vancouver
(c) Radios and Radio Parts	
NOVA SCOTIA:	
Cossor (Canada) Ltd.	301-303 Windsor St., Halifax
QUEBEC:	
Amplitrol Electronics Ltd.	844 William St., Montreal
Canadian Aviation Electronics Ltd.	St. Hubert
Canadian Marconi Company	2440 Trenton Road, Montreal
Chaput, Paul, Limitée	2222 Ontario St. E., Montreal
Electrical Products Mfg. Co. Ltd.	3570 Louis Veullot St., Montreal
Electrolabs Reg'd.	445 St. Peter St., Montreal
Federal Electric Manufacturing Co. Ltd.	9600 St. Lawrence Blvd., Montreal
Monarch Radio Mfg. Co.	3839 Arcade St., Montreal
RCA Victor Company Limited	1001 Lenoir St., Montreal
Sonata Communication Limited	25 Beaubien St., Montreal
Television Radio Aerial Mfg. Co. Ltd.	5275 Cote St. Paul Rd., Montreal
Televox Systems Reg'd.	154 St. Bernard St., Quebec
Utah Electronics (Canada) Ltd.	300 Chambly Road, Longueuil
ONTARIO:	
Aerovox Canada Limited	1551 Barton St. E., Hamilton
Amplifier Co. of Canada	2001 Eglinton Ave. E., Scarborough
Appleyby, D., & Co. of Canada Ltd.	Small Arms Building, Long Branch
Arrow Radio Company	1829 Davenport Road, Toronto
Atlas Radio Corporation	560 King St. W., Toronto
Brand and Millen Ltd.	Small Arms Building, Long Branch
Cahoon, L.D., & Company Ltd.	2271 Danforth Ave., Toronto
Camed Television Company	119 York St., Toronto
Canadian Admiral Corp. Ltd.	Malton

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1950—Continued

Name of Firm	Location of Plant
(c) Radios and Radio Parts — Concluded	
ONTARIO—Concluded:	
Canadian Astatic Limited	2271-2273 Danforth Ave., Toronto
Canadian General Electric Co. Ltd.	830 Lansdowne Ave., Toronto
Canadian Radio Mfg. Corp. Ltd.	11-19 Brentcliffe Rd., Toronto
Cannon Electric Co. Ltd.	2451 Danforth Ave., Toronto
Capital Television Ltd.	2197 Gerrard St., Toronto
Circulex (Canada) Limited	1166 Bay St., Toronto
Copper Wire Products Ltd.	137 Oxford St., Guelph
Deseronto Electronics Limited	Main St., Deseronto
Dominion Electronic Industries Ltd.	39 Edward St. and 480 Victoria St., Kitchener
Electronic Recorder Limited	351 Carlaw Ave., Toronto
Erie Resistor of Canada Ltd.	1151 Roselawn Ave., Toronto
Farley, T.S. Limited	174 Catherine St. N., Hamilton
General Radionics Limited	Municipal Airport, Hamilton
Industrial Electronics of Canada Limited	15 Cordova Ave., Toronto
International Resistance Co. Ltd.	349 Carlaw Avenue, Toronto
Manning Radio Ltd.	2 Northview Terrace, Toronto
Marstrand Engineering Co.	154 Victoria St. S., Kitchener
McCurdy Radio Industries	74 York St., Toronto
Meredith, C.C., & Co. Limited	Queen N. and Elgin Sts., Streetsville
Micro Engineering Laboratory	3317 Dufferin St., Toronto
Northern Electric Co. Ltd.	250 Sidney St., Belleville
Philco Corporation of Canada Ltd.	1244 Dufferin St., Toronto
Pye Canada Limited	First Street, Ajax
Radio Condenser Co. Ltd.	1131 Bloor St. W., Toronto
Radio Speakers (Canada) Ltd.	37 Hanna Ave., Toronto
Radio Valve Co. of Canada Ltd.	189 Dufferin St., Toronto
Smallwood, S.G., Limited	397 King St. E., Kitchener
Soundmaster Equipment	256 Kent St., Ottawa
Spartan of Canada Limited	Elm and Pine Sts., London
Speight, N.H., Laboratories	145 Wellington St. W., Toronto
Standard Radio Products	108 Sydney St., Kitchener
Stewart-Warner Alomite Corp. of Canada Ltd.	MacDonald Avenue, Belleville
Stromberg-Carlson Co. Ltd.	211 Geary Ave., Toronto
Telecom Limited	93 Church St., Toronto
Tipping, Stanley, Esq.	36 Esgore Drive, Toronto
Transvision-Television (Canada) Ltd.	Hamilton
White Radio Limited	41 West Ave. N., Hamilton
BRITISH COLUMBIA:	
Barvic Engineering Limited	1285 Homer St., Vancouver
Chisholm Industries Limited	4515 Main St., Vancouver
Ekolite Limited	369 East Hastings St., Vancouver
Electronics Products Co., Ltd.	1569 West 6th Ave., Vancouver
Humble Manufacturing Co. Ltd.	1695 West 2nd Ave., Vancouver
Research Industries Limited	1667 West 4th Ave., Vancouver
West Coast Radio Telephone Mfg. Co.	1366 West Pender St., Vancouver
(d) Refrigerators, Vacuum Cleaners and Appliances	
QUEBEC:	
Canadian Armature Works	6595 St. Urbain St., Montreal
Canadian General Electric Company Ltd.	5781 Notre Dame St. E., Montreal
Chardo Limitée	9455 St. Lawrence Blvd., Montreal
Colsan Limited	636 St. Paul St. W., Montreal
Danby Appliance Co., The	2170 St. Patrick St., Montreal
Electric Fixtures & Portable Lamp Mfg. Co.	640 St. Paul St. W., Montreal
Electrolux (Canada) Limited	201 Laurier Ave. E., Montreal
Electro-Steam Manufacturing Co. Ltd.	5316 Park Ave., Montreal
Evercold Refrigeration Ltd.	7855 Decarie Blvd., Montreal
Giant Electric Mfg. Co. Ltd.	40 Hurtubise Blvd., Montreal E.
H & S Products Co.	148 Port Royal W., Montreal
Imperial Electrical Products	3529 St. Lawrence Blvd., Montreal
Lalonde, Frank P., Ltd.	Dorval
Northern Machinery Company Ltd.	184 St. Paul St. W., Montreal
Peacock Electric Mfg. Co.	1520 Notre Dame St. W., Montreal
Progress Restaurant & Equipment Mfg. Ltd.	4865 St. Lawrence Blvd., Montreal

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1950 - Continued

Name of Firm	Location of Plant
(d) Refrigerators, Vacuum Cleaners and Appliances - Continued	
QUEBEC - Concluded:	
Racine & Racine Mfg.	Granby
Roy, E., Industries	L'Assomption
Saulnier & Frère Enr.	St. Paul
Victor Refrigeration Co. Ltd.	15 Ave. Des Industries, Lévis
Wolmak Products Ltd.	9500 St. Lawrence Blvd., Montreal
Wright, P.M., Electrical Co.	1327 Dorchester St. W., Montreal
ONTARIO:	
Addison Industries Limited	9-11 Hanna Ave., Toronto
Aero-Vent Electric Co. Ltd.	1104 Bay St., Toronto
Air-Coils Mfg. Co. Ltd.	29 Brock St. N., Oakville
Backer, C.B., Company Ltd.	25 Aberdeen St., Ottawa
Bersted Manufacturing Co. (Canada) Ltd.	75 Chisholm St. S., Oakville
Brantford Washing Machine Ltd. (Brutoco Division)	1623 St. Clair Ave., W., Toronto
Bridges Manufacturing Co.	185 Bay St., Toronto
Brock Snyder Mfg. Co., The	21 John St., Grimsby
Canadian Curtis Refrigeration Co. Ltd.	20 St. George St., Hamilton
Canadian General Electric Co. Ltd.	80 Bradford St., Barrie
Canadian General Electric Co. Ltd.	224 Wallace Ave., Toronto
Carrier Engineering Ltd.	857 Queensway, Toronto
Chandler Electric Co.	21 Scott St., Toronto
Clyde Fans Limited	162 King St. E., Toronto
Continental Electric Co. Ltd.	310 Spadina Ave., Toronto
Domestic Electric Co.	272 Church St., Toronto
Domestic Refrigerator Assembly	80 Murray St., Hamilton
Dowe, Geo. P., Co. Ltd.	Stop 22A Yonge St., Richvale
Electrical Accessory Co. of Toronto Ltd.	Stop 22A Yonge St., Richvale
Electric Magnetic Blanket Co.	52 King St. W., Cobourg
Electro-Sun Limited	3487 Dundas St. W., Toronto
Elgin Electric Mfg. Co.	570 Queen St. E., Toronto
Endress, George W., Co. Ltd.	186 Munro St., Toronto
Ever-Bright Ltd.	2700 St. Clair Ave. W., Toronto
Force Electric Products	163 Church St., Acton
Frigidaire Products of Canada Ltd.	Commercial Road, Leaside
Gelling Industries Limited	201 Major St., Welland
Gilson Manufacturing Co. Ltd.	York Road, Guelph
Graham Metal Products Ltd.	Bishop St., Preston
Groll's Cooler Limited	Duke and Laurel Sts., Preston
Hankcraft (Canada) Limited	186 Munro St., Toronto
Hoover Company Ltd., The	Gage and Barton Sts., Hamilton
Hygrade Electric Mfg. Co.	841-843 College St., Toronto
Independent Electric Limited	111 Adelaide St. W., Toronto
Ireland Manufacturing Co.	93 Cannon St. W., Hamilton
Keep Rite Refrigeration Ltd.	44 Elgin St., Brantford
Kelvinator of Canada Ltd.	1152 Dundas St. E., London
Keystone Electric Limited	111 Adelaide St. W., Toronto
Knight Rebound Controllers Ltd.	96 Locke St. S., Hamilton
Leff, I.H., Company	447 Dundas St., London
MacLeod, J.K., & Co. Ltd.	2 River St., Toronto
McCormack Smyth Ltd.	242 Mineola Road, Port Credit
National Electric Mfg. Co.	280 Lansdowne Ave., Toronto
Opal Manufacturing Co. Ltd.	526 Bay St., Toronto
Pittsburg Water Heater Co. of Canada	End of Park Road, Grimsby Beach
Power Appliances Mfg. Co.	330 Adelaide St. W., Toronto
Premier Vacuum Cleaner Co. Ltd., The	18 Breadalbane St., Toronto
Pyrexon Ray Company Ltd.	1254 Dundas St. W., Toronto
Redi-Heat Electric Company Ltd.	Mill Street, Deseronto
Reed-Cameron	516 Richmond St. W., Toronto
Renfrew Electric & Refrigerator Co. Ltd.	Elizabeth Street, Renfrew
Rotor Electric Company Ltd.	121 McCormack St., Toronto
Samson United of Canada Ltd.	69 Sherbourne St., Toronto
Sea Breeze Mfg. Ltd.	114-116 Jarvis St., Toronto
Simms Motor Units of Canada Ltd.	88 Merton St., Toronto
Stafford Metals Limited	37 Hanna Avenue, Toronto
Standard Electric Ltd.	897 Queen St. W., Toronto
Steam Electric Products Ltd.	220 Adelaide St. W., Toronto
Sunbeam Corporation (Canada) Ltd.	321 Weston Road, Toronto
Superior Electrics Limited	Pembroke St. E., Pembroke

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1950 - Continued

Name of Firm	Location of Plant
(d) Refrigerators, Vacuum Cleaners and Appliances - Concluded	
ONTARIO - Concluded:	
Plymouth Industries Ltd.	Taymall Avenue, Toronto
Thermax Limited	Orillia
Triad Appliances	130 Queen's Drive, Weston
Universal Cooler Co. Ltd.	145 Brant St., Brantford
Vendall Limited	2040 Buchanan Ave, Niagara Falls
Wood, W.C., Co. Ltd., The	123 Woolwich St., Guelph
MANITOBA:	
A.B.C. Electric Limited	505 Sherburn St., Winnipeg
Coldstream Refrigerator Mfg. Ltd.	166 Osborne St., Winnipeg
Electric Heating & Manufacturing Co. Ltd.	902 Home St., Winnipeg
Red Devil Heating & Mfg. Co.	272 Selkirk Ave., Winnipeg
Supreme Electric Appliances Ltd.	1098 Winnipeg Ave., Winnipeg
ALBERTA:	
Stermac Ltd.	5915--104th St., Edmonton
BRITISH COLUMBIA:	
Allied Engineering of B.C. Ltd.	2043 - 4th Ave. W., Vancouver
Sweden Freezer Mfg. Co. of Canada	1055 Vernon Dr., Vancouver
(e) Miscellaneous Electrical Products	
QUEBEC:	
Cables, Conduits & Fittings Limited	69 Richelieu St., St. Johns
Canadian Cameo Chime Co. Ltd.	10332 Lille St., Montreal
Canadian General Electric Co. Ltd.	Centre Industriel No. 5, Quebec
Canadian Laco Lamps Limited	745 Guy St., Montreal
Columbia Electric Limited	261 Queen St., Montreal
Conduits National Company Ltd.	10150 Notre Dame St. E., Montreal
Dave's Repair shop	24 Craig St. W., Montreal
Economy Fuse & Mfg. Co. of Canada Ltd.	1030 St. Alexander St., Montreal
Edwards of Canada Limited	675 Butler St., Montreal
Electrolier Manufacturing Co. Ltd.	5849 Boyer St., Montreal
Flex-I-Con Mfg. Company Ltd.	6155 Lafontaine St., Montreal
Hale Brothers Limited	6222 Chambord St., Montreal
Haliburton & White Limited	686 Notre Dame St. W., Montreal
Hi-Scale Products (Canada) Ltd.	7893 St. Lawrence Blvd., Montreal
Iberville Fittings Limited	167 First St., Iberville
L'Air-Liquide Society	5030 Rouen St., Montreal
Mid-Day Fluorescent Fixtures Inc.	931 Amherst St., Montreal
Nagels Art Metal Works	15 - 6th Ave., Ville St. Pierre, Montreal
Northern Electric Co. Ltd.	1261 Shearer St., Montreal
Peerless Electric Limited	1090 Pratt Ave., Outremont
Perfect Daylight Fixtures Co. Ltd., The	6615 Papineau Ave., Montreal
Phillips Electrical Works Limited	5795 De Gaspé St., Montreal
Presto Electric Co. of Canada Ltd.	425 River St., Verdun
Radio Engineering Products Ltd.	4305 Iberville St., Montreal
Rest-Glow Mfg. Co. Ltd.	6845 St. Urbain St., Montreal
Rosemount Industries Ltd.	2090 Moreau St., Montreal
Ross Productions Co.	1414 Notre Dame St. W., Montreal
Saxe Bros. Inc.	6215 Henri Julien Ave., Montreal
Solex Company Ltd., The	280 Faillon St. W., Montreal
Sylvania Electric "Canada" Ltd.	452 Heriot St., Drummondville
Temco Electric Mfg. Co.	8045 Durocher Ave., Montreal
Val St. Laurent Crystal Co. Ltd.	77 Vitre St. W., Montreal
ONTARIO:	
Allbright Corporation of Canada Ltd.	1315 Queen St. E., Toronto
Allman Electric	342 Keewatin Ave., Toronto
Ardron Mfg. Co.	9 Niagara St., Toronto
Arrow-Hart & Liegeman (Canada) Ltd.	Industry Street, Toronto
Automatic Watchdog Controls Ltd.	4251 Dundas St. W., Toronto

Directory of Firms Included in the Electrical Apparatus and Supplies Industries, 1950 - Continued

Name of Firm	Location of Plant
(e) Miscellaneous Electrical Products - Continued	
ONTARIO - Continued:	
Bach-Simpson Limited	1255 Brydges St., London
Baden Electric Fence Co.	Baden
Baldwin-International Ltd.	3006 Bloor St. W., Toronto
Bayly Engineering Ltd.	5 - 1st Street, Ajax
Bell Electriccord Company	11 Watkinson Ave., Toronto
Boston Insulated Wire & Cable Co. Ltd.	118 Shaw St., Hamilton
Branston, Chas. A., Limited	2508 Yonge St., Toronto
Burger Lighting Equipment Co.	690 King St. W., Toronto
Burke Electric & X-Ray Co. Ltd.	61-63 Yorkville Ave., Toronto
Burndy Canada Ltd.	381 Greenwood Ave., Toronto
C.&M. Products Ltd.	255 Raleigh Ave., Toronto
Camesco Fluorescent Corp. Ltd.	2382 Dundas St. W., Toronto
Campbell Electric Limited	131 Clarence St., Brantford
Canada Wire & Cable Co. Ltd.	Laird Drive, Leaside
Canadian Electric Resistors Ltd.	111 Richmond St. E., Toronto
Canadian Fluorescent Light Co.	62 Major St., Toronto
Canadian General Electric Co. Ltd.	221 Dufferin St., Toronto
Canadian General Electric Co. Ltd.	Queen Elizabeth Highway, Oakville
Canadian Line Materials Ltd.	St. Clair Ave., Scarboro Junction
Canadian Sterling Electric Ltd.	428 Cannon St. E., Hamilton
Canadian Strobe & Electric Corp.	222 Front St. E., Toronto
Canadian Triangle Wire & Cable Co. Ltd.	4006 Dundas St. W., Toronto
Chadwick-Carrol Brass & Fixtures Limited	365 Wilson St., Hamilton
Colonial Lighting Co., The	608 King St., Humberstone
Commercial Fixture Co. Ltd.	2368 Dundas St. W., Toronto
Conduits National Company Ltd.	33 Labatt Ave., Toronto
Cords (Canada)	482 Wellington St. W., Toronto
Crouse-Hinds Company of Canada Ltd.	7-21 Labatt Ave., Toronto
Crown Electrical Mfg. Ltd.	19 Sydenham St., Brantford
Cumberland Supply Co. Ltd.	Port Credit
Curtis Lighting of Canada Ltd.	195 Wicksteed Ave., Toronto
Dalglish Electric Supply	124 McNab St. N., Hamilton
Dominion Carbon Brush Co. Ltd.	250 Richmond St. W., Toronto
Dominion Machine & Tool Co. Ltd.	12 Bater Ave., Toronto
Electric & Pole Line Industries Ltd.	76 Logan Ave., Toronto
Electric Steam Radiator Co. Ltd.	52 Dickens Ave., Toronto
Electronic Associates Limited	2760 Yonge St., Toronto
Epheta Mfg. Co. (Canada) Ltd.	R.R.No.6 Indian Creek Road, Chatham
Etlin, H.B., Mfg. Co.	39 Golden Ave., Toronto
Federal Wire & Cable Co. Ltd.	265 Suffolk St., Guelph
Fleck, R.D., & Co. Ltd.	184 Bond St. W., Oshawa
Frozenaire Cooler Company	Merrittville Highway, St. Catharines
Globe Electric Manufacturing	3011 Dundas St. W., Toronto
Grotell Electric	214 Ossington Ave., Toronto
Hallman, J.C., Mfg. Co. Ltd.	41 John St. W., Waterloo
Hart Manufacturing (Canada) Ltd.	155 Edwards St., Aurora
Hastie & Dupuis	259 Bradley Ave., Eastview
Henderson Electric Co. Ltd.	927 Dupont St., Toronto
Holden Lighting Mfrs. Ltd.	11A Yorkville Ave., Toronto
Industrial Wire & Cable Ltd.	35 Golden Ave., Toronto
Kamro Lighting Products	R.R.No.1, Weston
Kearney, James R., Corp. of Canada Ltd.	3 Crawford St., Guelph
Kenny Electrical Mfg. Co. Ltd.	3705 Bathurst St., Toronto
Kondu Mfg. Co. Limited	South Street, Preston
Kruger Mfg. Company	441 King St. W., Toronto
Landy, M.A., Co. Ltd.	47 Lucy Ave., Toronto
Line & Cable Accessories Ltd.	347 Sorauen Ave., Toronto
Markel Electric Products Ltd.	23 Lewis St., Fort Erie
Marr Machine & Mfg. Co. Ltd.	160 Perth Ave., Toronto
Measurement Engineering Ltd.	232 John St., Arnprior
Merit Manufacturing Co.	965 College St., Toronto
Metal Industries Limited	24 Dunbar St., Hamilton
Millard Electric Limited	27 Cockburn St., Perth
Mitchell Mfg. Co. Ltd.	11 Davies Ave., Toronto
Morganite Carbon Products, Canada, Ltd.	195 Eastern Ave., Toronto
Nichols, R.H., Limited	2781 Dufferin St., Toronto
Noma Electric Co. Of Canada, Ltd.	Second Ave. and 14th St., Owen Sound
Osborne Electric Co. Ltd.	95 Wesley St., Etobicoke
Paramount Electric Co.	182 Adelaide St. W., Toronto
Pasteuray of Canada Ltd.	102 Bay St. N., Hamilton

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1950 - Concluded

Name of Firm	Location of Plant
(e) Miscellaneous Electrical Products - Concluded	
ONTARIO - Concluded:	
Penn Controls Limited Phillips Electrical Works Ltd. Pierce Fuse Corporation Ltd. Polytronics Co. Regent Equipment Mfg. Co. Ltd. Service Lamp Co. Ltd. Slater, N., Co. Ltd. Smith, Lawrence F., & Sons Smith & Stone Limited Stark Electronic Instruments Ltd. Sterne Equipment Co. Ltd. Swift Devices Limited Taylor Electric Mfg. Co. Ltd. Toronto Metal Spinning Ltd. Virden, John C., Limited Vulcan Electric Products Ltd. Wakfer Electronics Co. Ltd. Waldman, Harvey, & Co. Walker Metal Products Ltd. Wickett, Bradford J. Wilson, J.A., Lighting & Display Ltd. Wynston, A.L., Jr., Ltd.	246 Parliament St., Toronto Kingston Road, Brockville 210 Courtwright St., Fort Erie 582 Bathurst St., Toronto 455 King St. W., Toronto 197 King St., London 2 Sydney St., Hamilton 530 Richmond St. W. (rear) Toronto Georgetown Stark Bldg., Ajax 152 Lappin Ave., Toronto 14 George St., Hamilton 625 Princess Ave., London 32 Eastern Ave., Toronto 35 Front St. E., Toronto 3160 Dundas St. W., Toronto 35 Cameron St., Dundas 52 Dickens Ave., Toronto 1500 Kildare Road, Walkerville 2792 Yonge St., Toronto 9 Morrison St., Toronto 251 Spadina Ave., Toronto
MANITOBA:	
Advance Lighting Co. Caswell, W. A. Globe Electric Mfg. Co. Ltd. Ideal Electric Mfg. Co. Lighting Materials Ltd. L. & S. Electric Mfg. Ltd. Melco Electric Co. Ltd. Super-Lite Electric Mfg. Co. Ltd.	55 Myrtle St., Winnipeg 190 Chestnut St., Winnipeg 501 Main St., Winnipeg 372 Selkirk Ave., Winnipeg 803 Erin St., Winnipeg 466-70 Ross Ave., Winnipeg Queen & Eleventh Sts.; Brandon 1465 Notre Dame Ave., Winnipeg
ALBERTA:	
Donovan, R.L., & Co. Ltd.	14225 Stony Plain Road, Edmonton
BRITISH COLUMBIA:	
Duck, John & Son, Limited Electrical Industries Ltd. Freeman, W., & Son Lenkurt Electric Co. of Canada Ltd. Marine Electric Limited Rainbow Lighting Co. Ltd. Vancouver Lighting Supply Co. Ltd. Western Lighting Fixture Co. Ltd.	1246 Hornby St., Vancouver 550 Cambie St., Vancouver 275 Woodland Drive, Vancouver 926 East Hastings St., Vancouver 1703 W. Georgia St., Vancouver 3715 Commercial Drive, Vancouver 926 East Hastings St., Vancouver 246 West Second Ave., Vancouver

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