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CANADA



# THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY

1953

DOMINION BUREAU OF STATISTICS  
Industry and Merchandising Division  
Metal and Chemical Products Section



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THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY

1953

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## NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 3 volumes, as follows: Volume I — The Primary Industries, including mining, forestry and fisheries; Volume II — Manufacturing; Volume III — Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries or provinces which they comprise.

Volume II consists of the following parts, the first two of which deal with manufacturing as a whole and the balance with the major manufacturing groups.

- I—General Review of the Manufacturing Industries, \$1.50
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  - Section C. Quebec, 25¢
  - Section D. Ontario, 25¢
  - Section E. Prairie Provinces, 25¢
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- VI—Leather Products
- VII—Textiles
- VIII—Wood and Paper Products
- IX—Printing Trades
- X—Iron and Steel Products
- XI—Transportation Equipment
- XII—Non-ferrous Metal Products
- XIII—Electrical Apparatus and Supplies
- XIV—Non-metallic Mineral Products
- XV—Products of Petroleum and Coal
- XVI—Chemicals and Allied Products
- XVII—Miscellaneous Manufactures

This is the only report for Part XIII. It gives separately the principal statistics for the five subdivisions of this major group. It is punched to permit filing in a ring binder.  
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# THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY

1953

Factory shipments reported by firms in the Electrical Apparatus and Supplies Industry in 1953 were valued at \$848,190,254, an increase of 18.5 per cent over the 1952 total of \$715,873,342. The 422 firms which reported in this group in 1953 were distributed across Canada as follows: 1 in Nova Scotia; 86 in Quebec; 274 in Ontario; 19 in Manitoba; 6 in Alberta and 36 in British Columbia. These plants gave employment to a total of 76,856 workers who were paid \$250,646,777 in salaries and wages. Materials worth \$383,743,994 were purchased for use in manufacturing processes and an additional \$6,956,744 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 \$127,815,000 in 1953.

Statistics given in Tables 1 to 5 and 37 to 40 of this report cover only the concerns in the Electrical Apparatus and Supplies Industry. Tables 6 to 35 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 36 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.

TABLE 1. Principal Statistics of the Electrical Apparatus and Supplies Industry, 1949-1953

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
			\$	\$	\$	\$
1949 .....	365	55,916	137,278,521	4,483,959	212,460,413	486,355,355
1950 .....	382	60,262	155,334,065	5,136,183	260,306,027	580,578,386
1951 .....	373	67,626	194,749,038	5,844,780	316,561,307	676,008,959
1952 .....	401	69,200	217,564,936	6,226,367	313,713,170	715,873,342 <sup>1</sup>
1953 .....	422	76,856	250,646,777	6,956,744	383,743,994	848,190,254 <sup>1</sup>
Percent change, 1953 from 1952 .....	-	+ 11.1	+ 15.2	+ 11.7	+ 22.3	+ 18.5

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. Factory shipments for these years rather than value of production reported in previous years. Inventory value of finished products at plant at end of 1952 amounted to \$54,857,000 and at end of 1953 to \$65,799,000.

## ELECTRICAL APPARATUS AND SUPPLIES

TABLE 2. Principal Statistics, by Sub-groups<sup>1</sup>, 1952 and 1953

Group	Number of plants	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Value of factory shipments
1952			\$	\$	\$	\$
Batteries .....	26	2,094	6,455,438	370,708	25,253,692	40,708,740
Heavy electrical machinery and equipment...	52	25,796	86,853,545	2,015,847	90,300,105	237,312,982
Radios and radio parts .....	91	11,756	33,984,529	666,601	62,481,751	122,602,702
Refrigerators, vacuum cleaners and appliances...	86	8,150	24,011,232	1,081,721	41,355,257	96,608,108
Miscellaneous electrical products .....	146	21,404	66,260,192	2,091,490	94,322,365	218,640,810
Total .....	401	69,200	217,564,936	6,226,367	313,713,170	715,873,342
1953						
Batteries .....	26	2,091	6,979,527	440,680	19,486,735	35,463,607
Heavy electrical machinery and equipment...	55	25,454	88,359,663	1,974,108	87,704,273	244,273,012
Radios and radio parts .....	103	17,213	51,234,692	703,696	112,634,139	200,129,328
Refrigerators, vacuum cleaners and appliances...	87	9,427	29,496,808	1,237,274	54,597,677	114,593,026
Miscellaneous electrical products .....	151	22,671	74,576,087	2,600,986	109,321,170	253,731,281
Total .....	422	76,856	250,646,777	6,956,744	383,743,994	848,190,254

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

TABLE 3. Principal Statistics, by Provinces, 1952 and 1953

Province	Number of plants	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Value of factory shipments
1952			\$	\$	\$	\$
Nova Scotia.....	1	19,264	59,713,646	1,472,294	73,447,571	174,338,980
Quebec .....	83	48,533	154,292,664	4,616,510	232,082,332	525,284,664
Ontario .....	261	699	1,559,881	68,450	4,264,444	8,437,469
Manitoba .....	4	32	78,316	8,233	246,818	465,188
Alberta .....	34	672	1,920,429	60,880	3,672,005	7,347,041
Canada .....	401	69,200	217,564,936	6,226,367	313,713,170	715,873,342
1953						
Nova Scotia.....	1	20,596	68,444,155	1,619,574	92,905,653	203,264,708
Quebec .....	86	54,735	177,721,037	5,184,563	281,698,048	626,626,696
Ontario .....	19	832	2,266,920	81,753	4,332,918	9,062,897
Manitoba .....	6	50	120,844	8,395	302,947	572,359
Alberta .....	36	643	2,093,821	62,459	4,504,428	8,663,594
Canada .....	422	76,856	250,646,777	6,956,744	383,743,994	848,190,254

TABLE 4. Products Made in the Electrical Apparatus and Supplies Industry, 1952 and 1953

Product	1952		1953	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
	No.	\$	No.	\$
<b>Apparatus:</b>				
Converter equipment (see Table 31) .....	—	2,324,734	—	3,315,130
Industrial control (see Table 24) .....	—	13,545,651	—	12,351,129
Generators and parts (see Table 6) .....	—	17,718,114	—	20,589,514
Motors (x) and parts (see Table 7) .....	—	33,976,446	—	41,427,273
Switchgear and protective equipment (x) (see Table 10) .....	—	41,520,525	—	40,852,030
Transformers and parts (x) (see Table 8) .....	—	57,738,442	—	59,143,212
Welding apparatus (x) (see Table 23) .....	—	5,796,420	—	6,544,890
<b>Appliances:</b>				
Cooking and heating equipment:				
Stoves, rangettes, cooking plates (x) (see Table 22) .....	291,261	11,858,457	342,023	15,096,662
Heating elements for stoves, etc. (x) .....	—	2,252,855	—	3,235,806
Air heaters, electric, portable type —with fan (x) .....	27,984	277,333	42,721	443,957
without fan (x) .....	43,491	255,299	52,491	963,012
Unit heaters (x) .....	2,042	86,426	790	16,453
Heating pads, electric (x) .....	112,339	436,447	124,914	460,897
Water heaters, electric (x) (see Table 25) .....	179,682	1,134,021	210,902	1,244,364
Flat irons, electric (x) (see Table 17) .....	396,173	2,574,322	451,003	3,893,966
Toasters, electric (x) (see Table 18) .....	196,593	1,252,309	306,044	2,522,067
All other cooking and heating apparatus .....	—	2,771,055	—	3,610,373
Motor-driven equipment:				
Food mixers, electric (x) (see Table 35) .....	57,513	1,683,112	83,218	2,241,029
Vacuum cleaners and parts (x) (see Table 11) .....	—	8,584,575	—	7,905,946
Fans, A.C. and D.C.:				
Portable type .....	54,941	517,266	114,176	1,192,271
All other types (x) .....	19,070	477,862	7,849	321,139
All other motor-driven appliances, including washing machines, air conditioners, etc. .....	—	12,552,984	—	15,069,411
Refrigeration equipment (x) (see Tables 26 and 27) .....	—	51,205,603	—	58,385,824
<b>Batteries:</b>				
Storage batteries (see Table 13) .....	—	21,233,315	—	19,896,710
Dry cell batteries (see Table 12) .....	—	8,627,469	—	7,770,113
Parts and supplies for batteries, and wet cell type batteries .....	—	2,143,557	—	1,993,143
<b>Conduit and fittings (x) (see Table 9) .....</b>	—	7,579,349	—	9,138,022
<b>Cutouts and fuses (see Table 28) .....</b>	—	3,688,878	—	2,945,037
<b>Electro-therapeutic apparatus (X-ray machines, therapeutic lamps, etc.) .....</b>	—	763,461	—	706,328
<b>Electrical industrial heating equipment:</b>				
Furnaces:				
Resistance type (x) .....	—	645,056	—	348,429
Other types (x) .....	—	1,521,209	—	1,110,843
Industrial ovens (x) .....	—			
Other industrial heating equipment .....	—			
<b>Instruments and meters:</b>				
Watt hour meters .....	391,232	6,190,325	411,523	6,936,263
Electrical indicating instruments (x) .....	—	799,497	—	977,826
Other electrical instruments and meters (x) .....	—	1,355,431	—	1,456,795
Parts for instruments and meters .....	—	1,011,572	—	980,284
<b>Lamps (bulbs):</b>				
Incandescent (except therapeutic) (see Table 19) .....	96,564,890	13,998,662	—	16,444,410
Fluorescent (see Table 20) .....	4,098,522	2,817,174	4,882,012	3,598,998
<b>Lighting fixtures (x) (see Table 29) .....</b>	—	20,624,897	—	22,818,411
<b>Line material, including pole line hardware (x) (see Table 32)..</b>	—	7,181,024	—	5,725,988

## ELECTRICAL APPARATUS AND SUPPLIES

TABLE 4. Products Made in the Electrical Apparatus and Supplies Industry, 1952 and 1953 — Concluded

Product	1952		1953	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
	No.	\$	No.	\$
<b>Radio apparatus and supplies:</b>				
Radio receiving sets for civilian use (x) (see Table 14) .....	567,738	22,178,626	725,536	27,621,948
Record players — With amplifier .....	75,934	1,718,187	63,445	1,570,755
Without amplifier .....			12,037	524,825
Radio transmission equipment for civilian use (x) .....	—	5,292,546	—	6,285,090
Radio communication equipment for military purposes (x) (except radar) .....	—	16,401,057	—	20,746,454
Radar equipment (x) .....	—	26,504,273	—	31,441,992
Radio condensers .....	—	2,506,944	—	4,271,346
Television equipment — Complete sets (see Table 15) .....	141,946	30,072,895	391,974	81,304,912
Other equipment .....	—	633,730	—	1,526,606
All other radio and electronic equipment, except tubes and transformers .....	—	9,255,625	—	14,588,566
<b>Signal systems:</b>				
Traffic .....	—	409,518	—	313,744
Fire alarm .....	—	584,978	—	637,097
Interior signal and clock systems, excluding telephone .....	—	867,078	—	1,003,426
Vacuum tubes (see Tables 16) .....	—	7,131,375	—	14,011,940
Wiring devices (x) (see Table 30) .....	—	12,698,140	—	14,672,439
Wires and cables (x) (see Table 21) .....	—	111,819,215	—	117,577,834
<b>Miscellaneous:</b>				
Fencers, electric (x) .....	13,478	121,880 1,097,748	12,787	109,181 1,343,560
Rectifiers for storage battery charging <sup>1</sup> .....				
Telephone materials, including exchange switchboards, telephones, transmitters, etc. .....	—	40,229,021	—	43,352,382
All other products, not separately specified .....	—	49,250,719	—	52,206,067
Amount received for repair work .....	—	6,398,653	—	9,406,135
<b>Total all products</b> .....	—	<b>715,873,342</b>	—	<b>848,190,254</b>

1. Includes "fast" battery chargers.

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 35.

TABLE 5. Materials Used in the Electrical Apparatus and Supplies Industry, 1952 and 1953

Material	Unit of measure	1952		1953	
		Quantity	Cost at works	Quantity	Cost at works
		\$		\$	
<b>Aluminum:</b>					
Castings .....	lb.	3,053,743	1,953,884	3,358,047	2,400,530
Ingots .....	"	1,645,205	358,886	1,832,671	422,868
Rods and bars .....	"	8,236,957	2,193,957	5,798,527	1,391,383
Scrap .....	—	—	16,663	—	12,353
Sheets .....	lb.	2,953,903	1,259,190	2,464,880	1,040,853
Other .....	—	—	982,354	—	1,467,384
Ammonium chloride (sal ammoniac) .....	lb.	2,173,432	155,008	1,914,833	125,670
Antimony .....	"	84,813	26,333	46,315	11,497
Argon .....	cu. ft.	590,143	82,595	695,987	85,474

TABLE 5. Materials Used in the Electrical Apparatus and Supplies Industry, 1952 and 1953 — Continued

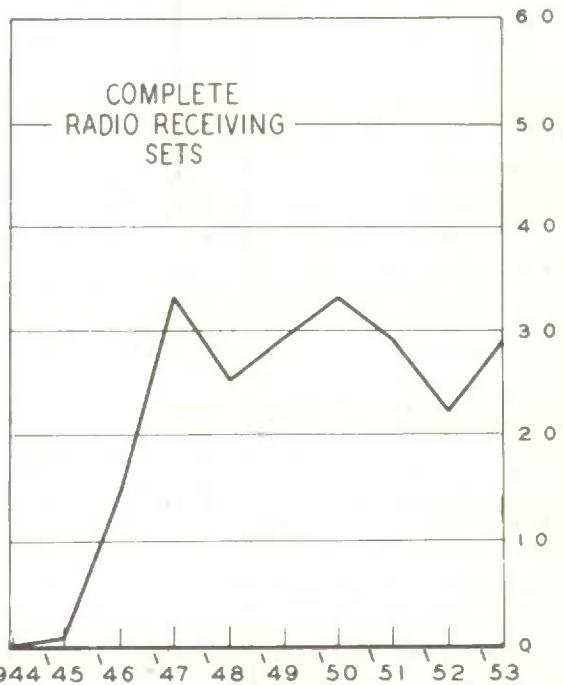
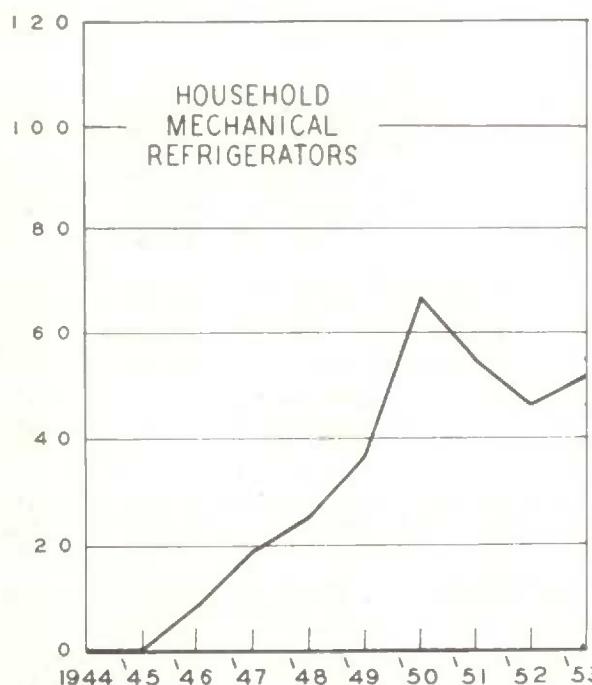
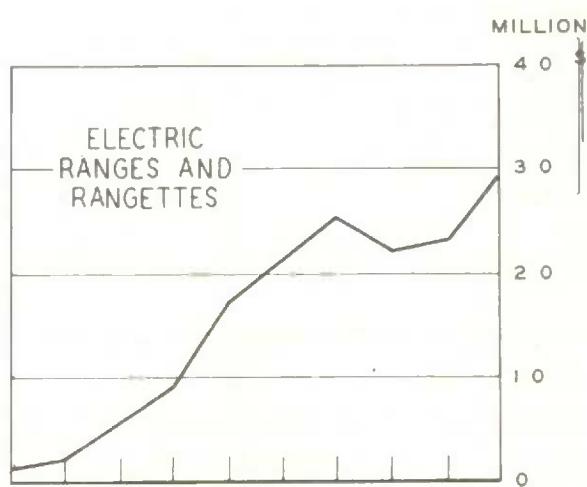
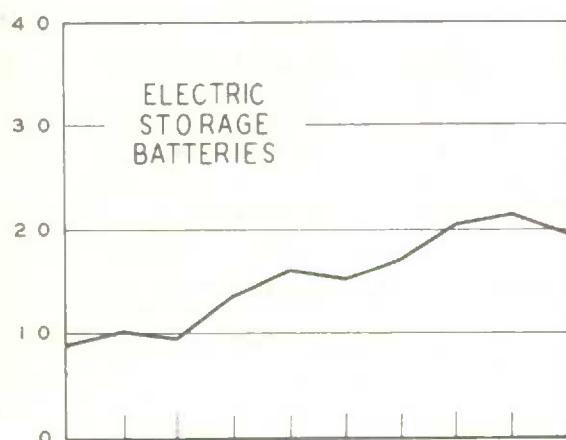
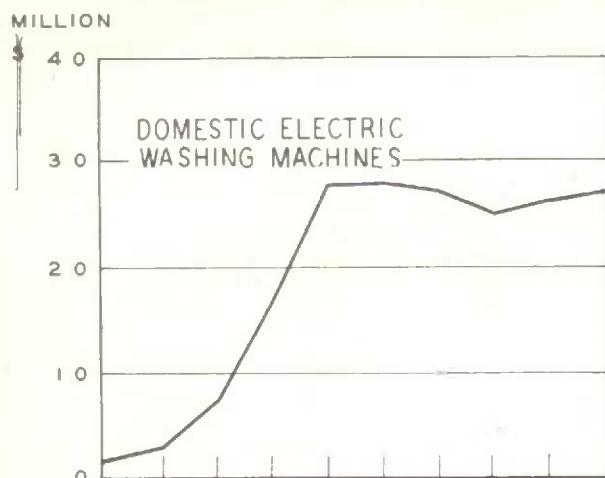
Material	Unit of measure	1952		1953	
		Quantity	Cost at works	Quantity	Cost at works
Battery boxes and containers .....	—	—	\$ 2,598,087	—	\$ 2,707,916
Brass and bronze:			\$		\$
Castings .....	lb.	1,687,559	1,088,048	1,423,537	933,550
Ingots .....	"	1,372,361	497,425	1,373,178	436,350
Rods and bars .....	"	4,199,788	1,733,101	4,244,850	1,721,969
Tubing and pipe .....	"	362,921	210,497	356,245	267,635
Sheets and plates .....	"	2,881,103	1,237,772	6,681,941	2,649,157
Scrap .....	"	135,318	33,707	82,824	17,381
Other .....	—	—	1,299,411	—	2,939,271
Carbon plates, blanks, etc. ....		—	305,334	—	369,690
Carbon brushes .....		—	118,208	—	122,723
Carbon electrodes .....		—	196,248	—	150,321
Chalk or whiting .....	lb.	594,096	13,356	928,600	13,286
China clay (kaolin) .....	ton	2,542	82,131	2,192	75,038
Copper:					
Castings .....	lb.	565,797	169,216	613,871	178,785
Ingots, slabs, wire bars, etc. ....	"	1,141,170	420,485	907,340	379,223
Rods .....	"	117,827,125	35,659,610	121,471,270	38,125,008
Scrap .....	"	20,688	4,363	38,059	11,723
Sheets and plates .....	"	5,920,224	2,743,285	1,513,677	677,261
Tubing and pipe .....	"	1,844,210	1,098,696	1,639,876	1,047,662
Wire, bare .....	"	4,898,110	2,071,954	3,263,439	1,627,830
Wire, enamelled .....	"	7,846,046	3,504,688	8,090,184	4,006,886
Wire, other insulated .....	—	—	5,819,176	—	8,357,646
Other .....	—	—	945,304	—	789,037
Cotton and linen sheets, tapes, etc. ....		—	3,177,498	—	2,981,700
Glass bulbs, tubing and cane .....		—	1,705,071	—	3,218,521
Insulating varnishes and japans .....		—	982,441	—	1,068,479
Insulating waxes .....		—	424,910	—	445,622
Insulators, porcelain .....		—	2,143,446	—	1,976,648
Iron and steel (except alloy):					
Pig iron .....	net ton	8,104	397,591	6,182	374,425
Steel bars and rods .....	" "	20,295	3,278,511	15,223	2,939,443
Steel strips .....	" "	15,416	3,431,601	10,071	2,084,534
Steel sheets .....	" "	71,118	11,737,621	86,229	13,259,843
Steel wire .....	" "	19,761	3,723,567	14,582	2,708,804
Structural steel .....	" "	4,204	724,386	8,172	1,245,526
Scrap iron and steel .....	" "	4,753	195,456	3,947	160,873
Other iron and steel .....	—	—	9,953,749	—	9,486,555
Alloy steel:					
Carbon and alloy tool steel, including high-speed .....	—	—	298,366	—	201,725
Stainless .....	—	—	1,125,668	—	1,012,880
Silicon sheets and strips .....	net ton	23,164	6,351,662	28,266	8,642,437
Other alloy steel .....	—	—	250,682	—	389,240

## ELECTRICAL APPARATUS AND SUPPLIES

TABLE 5. Materials Used in the Electrical Apparatus and Supplies Industry,  
1952 and 1953 — Concluded

Material	Unit of measure	1952		1953	
		Quantity	Cost at works	Quantity	Cost at works
Lead:			\$		\$
Pig (pure) .....	lb.	44,520,026	7,183,169	47,620,190	6,015,029
Antimonial .....	"	28,286,474	4,946,915	30,377,616	4,320,451
Scrap .....	"	51,164	3,891	98,522	8,082
Other .....	—	—	205,367	—	172,481
Lead oxide (litharge and red lead) .....	lb.	5,299,217	958,394	5,668,268	884,691
Lumber .....	M bd. ft.	16,875	1,943,905	14,965	2,054,345
Magnesium .....	lb.	7,945	7,095	9,308	7,389
Manganese dioxide .....	"	7,158,537	316,142	6,263,958	279,006
Mercury .....	"	13,967	27,953	11,598	25,490
Mica .....	"	520,957	1,187,430	498,433	927,107
Nickel-silver, all forms .....	—	—	211,682	—	291,144
Nitrogen .....	cu. ft.	2,133,117	37.970	3,397,433	46,073
Oil:					
Transformer .....	Imp. gal.	3,372,768	1,223,158	2,681,553	1,073,864
Switch .....	"	3,199	3,204	85,441	38,001
Paints, stains, lacquers, etc. ....	—	—	2,256,140	—	2,591,354
Radio and television cabinets .....	—	—	6,242,838	—	16,833,180
Radio and television parts for assembling .....	—	—	20,747,866	—	40,264,903
Radio and television tubes purchased and used to equip radio and television receiving sets made by manufacturer in own plant .....	No.	5,487,781	5,722,296	12,811,109	16,725,013
Refrigerator cabinets .....	—	—	536,913	—	344,177
Rubber:					
Crude .....	lb.	992,420	327,879	829,929	245,102
Other .....	—	—	1,694,171	—	1,633,668
Resistance wire .....	—	—	819,474	—	839,611
Silk, artificial .....	lb.	660,796	425,514	536,580	509,625
Silver .....	troy oz	63,604	66,616	55,540	60,865
Steel tanks .....	—	—	1,517,204	—	1,417,471
Sulphuric acid, 100% .....	lb.	11,371,357	198,721	11,335,581	208,748
Talc .....	"	853,302	14,143	980,386	15,346
Tin .....	"	224,962	257,505	237,130	229,053
Tungsten wire .....	—	—	284,266	—	413,816
Wood battery separators .....	—	—	1,030,836	—	999,760
Zinc:					
Ingots and bars .....	lb.	4,659,436	778,358	4,335,028	507,294
Sheets and strip .....	"	1,540,729	480,043	1,339,875	265,674
Other .....	—	—	1,223,502	—	965,879
Zinc chloride .....	lb.	1,075,620	59,915	993,485	68,074
Electric motors, purchased .....	—	—	1,835,389	—	1,788,763
All other materials .....	—	—	124,343,942	—	146,861,825
Containers and packing material .....	—	—	5,812,166	—	7,051,025
<b>Total materials .....</b>	—	—	<b>313,713,170</b>	—	<b>383,743,994</b>

**PRODUCTION\***  
IN  
**CANADA**  
FROM  
**ALL INDUSTRIES**  
OF  
**SPECIFIED ELECTRICAL**  
**PRODUCTS**  
1944 - 1953



\* PRODUCTION = SELLING VALUE AT WORKS.

TABLE 6. Factory Shipments<sup>1</sup> of Electric Generators and Parts, 1952 and 1953

—	Number	Total rating	Selling value at works
1952			\$
A.C., 1000 k.v.a. and under:			
500 r.p.m. and above .....	220	58,339 k.v.a.	1,242,180
Under 500 r.p.m. ....	—	—	—
A.C., 1001 k.v.a. and above, all speeds .....	35	1,163,750 k.v.a.	15,561,750
D.C. and including exciters:			
½ k.w. and ¾ k.w. ....	30	13 k.w.	2,700
1 k.w. to 1000 k.w. ....	426	6,755 k.w.	699,655
1001 k.w. and over .....	—	—	—
Accessories and parts for generators .....	—	—	211,829
<b>Total</b> .....	—	—	17,718,114
1953			
A.C., 1000 k.v.a. and under:			
500 r.p.m. and above .....	141	26,384 k.v.a.	453,873
Under 500 r.p.m. ....	32	12,625 k.v.a.	460,000
A.C., 1001 k.v.a. and above, all speeds .....	25	1,312,000 k.v.a.	18,773,459
D.C. and including exciters:			
½ k.w. and ¾ k.w. ....	20	11 k.w.	1,900
1 k.w. to 1000 k.w. ....	383	7,478 k.w.	337,670
1001 k.w. and over .....	2	5,000 k.w.	98,000
Accessories and parts for generators .....	—	—	464,612
<b>Total</b> .....	—	—	20,589,514

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

TABLE 7. Factory Shipments of Electric Motors and Parts, 1952 and 1953 (From All Industries)

—	Number	Total rating	Selling value at works
—		H.P.	\$
1952			
Single phase, induction:			
½ h.p. and under <sup>1</sup> .....	609,552	147,042	10,583,163
½ h.p. and ¾ h.p. ....	40,233	23,626	1,662,383
1 h.p. to 5 h.p., inclusive .....	12,743	23,612	1,245,749
Polyphase, induction:			
½ h.p. and under <sup>1</sup> .....	5,916	1,541	187,103
½ h.p. and ¾ h.p. ....	10,225	6,118	496,245
1 h.p. to 5 h.p., inclusive .....	35,651	89,680	3,881,092
D.C.:			
½ h.p. and under <sup>1</sup> .....	333,544	8,700	1,067,892
½ h.p. and ¾ h.p. ....	329	192	24,111
1 h.p. to 5 h.p., inclusive .....	156	390	43,485
Polyphase, induction:			
6 h.p. to 25 h.p., inclusive .....	14,614	185,560	3,750,314
26 h.p. to 100 h.p., inclusive .....	3,429	177,627	2,616,643
101 h.p. to 200 h.p., inclusive .....	540	81,975	1,438,049
201 h.p. and over .....	237	96,433	1,796,920
D.C.:			
6 h.p. to 25 h.p., inclusive .....	244	3,757	335,848
26 h.p. to 100 h.p., inclusive .....	321	15,888	898,944
101 h.p. to 200 h.p., inclusive .....	36	5,329	240,445
201 h.p. and over .....	36	40,950	912,943
Railway and vehicle motors, A.C. and D.C. ....	488	118,546	1,535,000
Shaded pole type motors, all ratings .....	119,104	—	505,163
Universal type motors, all ratings .....	79,055	—	387,918
Synchronous motors and condensers:			
1000 h.p. or k.v.a. and under .....	241	73,347 k.v.a.	1,262,775
1001 h.p. or k.v.a. and over .....	18	32,175 k.v.a.	476,648
Sets of rotors and stators for hermetically-sealed refrigeration units, all ratings .....	}	—	2,181,664
Accessories and parts for motors .....	—	—	—
<b>Total</b> .....	—	—	37,530,497

1. Does not include shaded pole or universal motors.

TABLE 7. Factory Shipments of Electric Motors and Parts, 1952 and 1953, (From All Industries) — Concluded

	Number	Total rating	Selling value at works
		H.P.	\$
1953			
Single phase, induction:			
$\frac{1}{2}$ h.p. and under <sup>1</sup> .....	862,432	222,420	13,798,417
$\frac{1}{2}$ h.p. and $\frac{3}{4}$ h.p. ....	71,869	43,004	2,472,291
1 h.p. to 5 h.p., inclusive .....	15,575	28,658	1,504,494
Polyphase, induction:			
$\frac{1}{2}$ h.p. and under <sup>1</sup> .....	6,455	1,604	191,399
$\frac{1}{2}$ h.p. and $\frac{3}{4}$ h.p. ....	12,553	7,823	559,959
1 h.p. to 5 h.p., inclusive .....	38,412	95,960	4,355,866
D.C.:			
$\frac{1}{2}$ h.p. and under <sup>1</sup> .....	475,848	10,972	1,422,556
$\frac{1}{2}$ h.p. and $\frac{3}{4}$ h.p. ....	137	87	14,715
1 h.p. to 5 h.p., inclusive .....	344	761	59,373
Polyphase, induction:			
6 h.p. to 25 h.p., inclusive .....	13,868	164,174	3,930,191
26 h.p. to 100 h.p., inclusive .....	2,827	147,668	3,212,690
101 h.p. to 200 h.p., inclusive .....	450	54,797	1,274,385
201 h.p. and over .....	188	59,440	1,293,690
D.C.:			
6 h.p. to 25 h.p., inclusive .....	250	4,167	509,929
26 h.p. to 100 h.p., inclusive .....	171	10,450	636,017
101 h.p. to 200 h.p., inclusive .....	24	3,550	136,614
201 h.p. and over .....	12	8,275	250,370
Railway and vehicle motors, A.C. and D.C. ....	704	230,373	2,650,000
Shaded pole type motors, all ratings .....	181,152	—	721,294
Universal type motors, all ratings .....	34,899	—	246,973
Synchronous motors and condensers:			
1000 h.p. or k.v.a. and under .....	235	70,101 k.v.a.	1,693,853
1001 h.p. or k.v.a. and over .....	15	63,144 k.v.a.	1,979,093
Sets of rotors and stators for hermetically-sealed refrigeration units, all ratings .....	—	—	3,800,620
Accessories and parts for motors .....	—	—	—
<b>Total</b> .....	—	—	<b>46,714,789</b>

1. Does not include shaded pole or universal motors.

TABLE 8. Factory Shipments of Transformers, by Types, 1952 and 1953

Type	1952			1953		
	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 .....	65,938	1,118,634	18,294,496	65,730	1,225,574	18,392,996
Power transformers, 201 k.v.a. to 7,500 k.v.a., inclusive, and over 15,000 volts to and including 132,000 volts .....	1,406	1,594,135	11,495,900	1,311	3,361,248	16,822,726
Power transformers, over 7,500 k.v.a. or over 132,000 volts .....	234	4,034,373	14,832,088	95	2,488,365	9,327,597
Feeder regulators:						
Induction type .....	35	26,367	221,921	54	6,728	358,221
Step voltage type .....	388	—	1,128,887	54	—	967,549
Current transformers .....	13,888	—	1,230,278	16,187	—	899,474
Potential transformers .....	—	—	583,436	3,245	—	501,830
Constant current transformers .....	1	1	1	1	1	1
Series lamp transformers .....	1	1	1	1	1	1
Luminous tube transformers .....	12,867	—	212,364	28,896	—	382,169
Ignition transformers .....	91,432	—	921,648	133,690	—	1,301,952
Radio transformers .....	839,531	—	1,403,459	2,118,929	—	3,329,046
Fluorescent transformers and ballasts .....	580,829	—	2,799,875	725,596	—	3,611,177
Bell-ringing and chime transformers .....	1	1	1	66,053	—	104,156
General purpose dry type transformers, up to and including 2 k.v.a. .....	1	1	1	1	1	1
All other transformers .....	—	—	2,900,601	—	—	2,118,562
Parts and supplies .....	—	—	1,778,999	—	—	1,025,757
<b>Total</b> .....	—	—	<b>57,803,952</b>	—	—	<b>59,143,212</b>

1. Included with "All other transformers".

## ELECTRICAL APPARATUS AND SUPPLIES

TABLE 9. Factory Shipments of Conduit<sup>1</sup> for Electrical Wiring, 1952 and 1953

Item	Unit of measure	1952		1953	
		Quantity	Selling value at works	Quantity	Selling value at works
Rigid conduit:			\$		\$
Iron .....	lb.	30,574,036	4,519,399	36,945,705	5,281,188
Electrical metallic tubing .....	lb.	1,912,544	468,210	2,778,000	806,417
Flexible conduit (steel and non-metallic) .....	ft.	2,554,463	184,888	2,388,491	186,355
Total .....		—	5,172,497	—	6,273,960

1. Does not include aluminum conduit.

TABLE 10. Factory Shipments of Electrical Switch Gear and Protective Equipment (Except telephone switchboards), 1952 and 1953

Item	Selling value at works	
	1952	1953
	\$	\$
Switchboard panels and equipment .....	✓ 14,755,317	15,148,264
Panel boards and cabinets .....	✓ 4,821,809	5,563,454
Lightning arresters, other than radio:		
15,000 volts and under .....	424,753	376,313
Over 15,000 volts .....	357,745	269,536
Power circuit-breakers .....	8,001,812	6,882,732
Low-voltage air circuit-breakers .....	2,312,970	2,376,880
Disconnecting switches:		
Up to and including 15,000 volts .....	774,661	880,042
Over 15,000 volts .....	2,837,363	669,075
Switches, enclosed safety type .....	✓ 3,094,319	3,891,880
Generator voltage regulators and accessories .....	90,404	15,727
Current limiting apparatus .....	809,311	226,180
Relays .....	982,135	553,123
Parts and supplies for above .....	499,891	1,141,665
Other protective equipment .....	1,850,035	3,244,159
Total .....	41,612,525	41,239,030

TABLE 11. Production<sup>3</sup> of Electric Vacuum Cleaners and Parts, 1944-1953 (From All Industries)

Year	Floor models <sup>1</sup>		Cylinder models		Hand models		Attachments and parts		Total	
	Number	\$	Number	\$	Number	\$	Number	\$	Number	\$
1944 .....	1,403	30,955	Floor models		494	6,037	—	227,406	—	264,398
1945 .....	14,220	580,542			—	—	—	345,942	—	926,484
1946 .....	24,274	1,229,992	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	—	825,881	—	6,827,004
1949 .....	34,308	1,985,022	106,952	5,021,712	Not available for publication		—	1,105,210 <sup>2</sup>	—	8,111,944
1950 .....	43,075	2,337,136	109,395	5,161,920	for publication		—	1,271,363 <sup>2</sup>	—	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

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

2. Includes hand models.

3. Factory shipments since 1952.

TABLE 12. Factory Shipments of Dry Cell Batteries, 1952 and 1953

Type	Unit of measure	Quantity	Selling value at works
			\$
1952			
Dry cell:			
6-inch batteries .....	No. of cells	2,149,367	1,066,926
Radio batteries for portable sets .....	" "	15,078,566	803,696
Radio batteries for non-portable sets .....	" "	40,759,747	3,657,440
Flashlight batteries .....	" "	30,057,641	2,780,468
Hearing-aid batteries:			
"A" batteries .....	No. of cells		
"B" batteries .....	" "	2,825,647	318,939
All other dry batteries .....	" "		
Total .....			8,627,469
1953			
Dry cell:			
6-inch batteries .....	No. of cells	1,996,054	1,001,833
Radio batteries for portable sets .....	" "	13,616,104	721,463
Radio batteries for non-portable sets .....	" "	33,740,178	3,097,558
Flashlight batteries .....	" "	25,468,219	2,396,476
Hearing-aid batteries:			
"A" batteries .....	No. of cells		
"B" batteries .....	" "		552,783
All other dry batteries .....	" "		
Total .....			7,770,113

TABLE 13. Factory Shipments of Electric Storage Batteries, by Types, 1952 and 1953

Type	1952		1953	
	Number	Selling value at works	Number	Selling value at works
	\$			\$
For internal combustion engine starting and ignition .....	1,743,318	17,929,889	1,769,708	16,641,612
For farm lighting plants (cells) .....	23,698	260,064	29,331	310,153
For railway service (cells) .....	17,174	650,958	17,388	697,557
For direct motive power (industrial trucks, mine locomotives, etc.) .....	32,485	2,392,404	2,847	1,440,212
For all other purposes .....			—	807,176
Total .....	—	21,233,315	—	19,896,710

TABLE 14. Production<sup>1</sup> of Complete Radio Receiving Sets, 1944-1953

Year	Number of sets	Selling value at works	Year	Number of sets	Selling value at works
		\$			\$
1944 .....	—	—	1949 .....	791,051	29,411,911
1945 .....	50,317	979,173	1950 .....	820,772	33,497,785
1946 .....	603,199	15,759,724	1951 .....	628,395	29,635,311
1947 .....	984,276	33,063,220	1952 .....	567,738	22,178,626
1948 .....	639,493	25,411,443	1953 .....	737,457	28,021,087

1. Factory shipments since 1952.

TABLE 15. Production<sup>1</sup> of Television Sets, 1948-1953

Year	Number	Selling value at works
		\$
1948 .....	4	931
1949 .....	9,189	2,010,271
1950 .....	32,971	7,764,952
1951 .....	48,657	12,902,090
1952 .....	141,946	30,072,795
1953 .....	391,974	81,304,912

1. Factory shipments since 1952.

TABLE 16. Production of Radio and Television Receiving Tubes<sup>1</sup>, 1944-1953

Year	Number	Selling value at works	Year	Number	Selling value at works
		\$			\$
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
1946 .....	5,933,363	2,438,268	1951 .....	9,976,801	5,215,684
1947 .....	7,985,211	3,747,175	1952 .....	7,221,495	4,672,927
1948 .....	4,040,949	1,831,086	1953 .....	12,803,162	8,476,680

1. Does not include television picture tubes.

TABLE 17. Production<sup>1</sup> of Flat Irons, 1944-1953

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
		\$		\$		\$		\$
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 .....			Not available according to this breakdown	222,304	1,526,635	218,234	750,553	440,538
1948 .....				233,437	2,224,472	138,213	425,610	371,650
1949 .....				322,060	2,245,242	145,186	401,715	467,246
1950 .....				387,657	2,815,299	130,257	391,252	517,914
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

1. Factory shipments since 1952.

TABLE 18. Production<sup>3</sup> of Electric Toasters, 1944-1953

Year	Domestic, automatic		Domestic, non-automatic		Domestic, sandwich <sup>1</sup>		Other <sup>2</sup>		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
		\$		\$		\$		\$		\$
1944 .....			321,648	Not available according to this breakdown					6,981	44,785
1945 .....		—	275,467	987,287	9,735	46,920	295	10,230	142,044	493,248
1946 .....	—	17,816	1,011,548	35,014	174,265	1,023	13,886	331,678	1,044,437	
1947 .....	1,183	224,392	189,839	1,070,654	47,763	276,377	5,581	25,184	312,687	1,217,515
1948 .....	22,918	261,928	1,182,910	67,263	447,593	1,021	29,048	384,097	2,416,315	
1949 .....	53,885	756,764	869,703	46,225	267,508	258	10,605	326,928	1,596,607	
1950 .....	52,424	686,852	228,021	716,763	33,667	197,860	793	42,724	242,067	1,834,668
1951 .....	39,031	591,031	168,576	462,441	41,473	241,606	2,392	77,137	198,200	1,548,378
1952 .....	26,718	476,225	127,617	54,477	274,388	2,646	16,012	306,044	1,257,409	
1953 .....	134,146	1,903,442	114,775	328,225						2,522,067

1. Does not include waffle-iron sandwich toaster combination.

2. Includes commercial type.

3. Factory shipments since 1952.

TABLE 19. Production<sup>3</sup> of Incandescent Electric Lamps (Bulbs), 1944-1953

Year	Standard size		Miniature size <sup>1</sup>				Photo flash <sup>2</sup>	
	Number	Selling value at works	Christmas tree		Other miniature		Number	Selling value at works
			Number	Selling value at works	Number	Selling value at works		
		\$		\$		\$		\$
1944 .....	39,298,127	4,922,362	19,522,020	1,049,025				
1945 .....	44,397,206	5,628,626	20,216,048	1,151,350				
1946 .....	49,174,360	6,553,989	30,973,583	1,454,748				
1947 .....	53,990,563	7,172,059	38,580,950	1,768,405				
1948 .....	53,104,627	7,547,409	40,363,003	1,951,320				
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 .....	80,499,640	9,715,612	33,506,684	2,461,287				
1952 .....	65,978,887	10,963,303	4,850,322	210,646	16,807,297	1,756,885	9,228,384	1,067,828
1953 .....	77,421,515	12,217,077	11,111,559	567,129	19,773,626	2,100,919	15,071,759	1,559,285

1. Figures shown prior to 1952 are totals for all types of miniature bulbs, including Christmas tree and other miniature.

2. Not available separately prior to 1952.

3. Factory shipments since 1952.

TABLE 20. Production<sup>1</sup> of Fluorescent Electric Lamps (Bulbs), 1944-1953

Year	Number	Selling value at works
		\$
1944 .....	736,535	346,691
1945 .....	1,509,555	696,291
1946 .....	2,018,658	1,090,062
1947 .....	2,899,330	1,522,527
1948 .....	3,984,900	2,422,940
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

1. Factory shipments since 1952.

TABLE 21. Factory Shipments of Electrical Wires and Cables, 1952 and 1953 (From All Industries)

Item	Value of factory shipments	
	1952	1953
	\$	\$
Un-insulated conductors:		
Copper, copperweld, including trolley wire .....	14,634,237	11,332,489
Copperweld copper composite conductors and C.C.S.R. ....	563,873	546,303
Aluminum and A.C.S.R. conductors and aluminum alloys .....	13,476,759	8,619,592
Brass and bronze wires and cables .....	688,709	707,231
Galvanized steel conductors .....	221,189	358,287
Weatherproof wires (all types) .....	9,412,361	10,793,717
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.) .....	11,799,156	13,296,626
Cambric-insulated and braided (all types where V.C. is used as the insulant) .....	1,147,602	1,085,844
Thermo-plastic wire and cables (all types except telephone wires and cables) .....	9,668,068	9,465,587
Rubber-insulated leaded power cable (including armoured cable of this type and L.C. control cable) .....	2,095,846	2,692,083
Cambric-insulated leaded power cable (including armoured cable of this type) .....	955,901	979,392
Paper-insulated leaded power cable (including armoured cable of this type) .....	6,147,096	5,697,563
Rubber-insulated telephone wires (including PVC) (drop, duct, inside, station, bridle, etc.)	2,890,531	3,847,359
Paper-insulated telephone cable (including armoured cable of this type) .....	12,400,280	14,235,953
Flexible cords (except telephone and switchboard), including jacketed types .....	4,660,959	4,427,237
Flexible armoured cable (AC and ACL) .....	3,629,940	4,918,282
Signal and control cable, non-leaded .....	1,328,909	1,584,582
Non-metallic sheathed cables .....	6,366,599	7,773,975
Magnet wires:		
Enamelled .....	7,371,609	9,098,578
All others .....	4,322,617	3,988,952
Asbestos-insulated (all types) .....	1,890,475	1,962,967
Cord assemblies .....	1,642,288	2,103,892
All other types of wire and cable .....	4,337,474	3,924,292
Total .....	121,652,478	123,440,783

TABLE 22. Factory Sales of Stoves Made in Canada, 1951-1953 (Data Assembled From All Industries)

	1951	1952	1953
Coal, wood and sawdust-burning cooking stoves and ranges, including ranges with gas or electric extension .....	No. 70,601 \$ 6,658,288	56,847 5,661,110	43,870 4,466,519
Coal, wood and sawdust-burning heating stoves and space-heaters, including all heaters, circulators, Quebec, box, oak, Franklin, globular and laundry .....	No. 105,859 \$ 1,931,382	71,220 1,126,309	54,531 895,039
Solid fuel and gas combination or oil and gas combination (not including stoves or ranges with gas extension) .....	No. 10,377 \$ 1,453,457	13,374 1,979,968	13,234 1,854,891
Solid fuel and electric combination or oil and electric combination (not including stoves or ranges with electric extension) .....	No. 6,817 \$ 1,074,234	8,273 1,632,600	8,939 1,600,534
Gas cooking stoves and ranges (not combinations), including all styles with ovens .....	No. 33,731 \$ 3,360,850	38,394 4,068,825	31,810 3,696,607
Gas heating stoves and space-heaters .....	No. 12,380 \$ 394,365	11,203 340,262	9,383 293,893
— Gas cooking plates — no oven .....	No. 1,883 \$ 24,434	869 7,432	1,592 18,229

TABLE 22. Factory Sales of Stoves Made in Canada, 1951-1953 (Data Assembled From All Industries) — Concluded

		1951	1952	1953
Electric cooking stoves or ranges (over 35 amperes), all styles with ovens .....	No. \$	132,718 21,202,553	143,160 22,032,038	171,776 27,819,362
Electric rangettes, including cord attachment and oven as one unit .....	No. \$	37,797 1,414,144	46,903 1,706,429	51,828 1,873,194
Electric cooking plates and grills, including stoves for glass coffee-makers .....	No. \$	194,030 1,100,113	218,637 1,054,580	249,208 1,058,949
Oil (kerosene) and gasoline cooking stoves and ranges .....	No. \$	64,626 .632,966	37,892 385,267	36,862 359,028
Oil (kerosene) and gasoline heating stoves and space-heaters .....	No. \$	1,803 27,766	4,047 168,682	2,156 31,375
Fuel oil (distillate) cooking stoves and ranges .....	No. \$	12,753 538,302	13,893 907,676	11,534 1,083,289
Fuel oil (distillate) heating stoves and space-heaters .....	No. \$	67,506 3,487,761	58,475 3,083,818	53,996 2,863,404
<b>Total</b> .....	<b>\$</b>	<b>43,300,615</b>	<b>44,154,996</b>	<b>47,914,313</b>

TABLE 23. Production of Electric Welding Apparatus and Welding Rod<sup>1</sup>, 1944-1953

Year	Welding apparatus		Welding rod <sup>2</sup>	
	Electric arc welding equipment with controls	Other electric welding apparatus <sup>3</sup>	Quantity	Value of sales
	\$	\$	Tons	\$
1944 .....	546,521	145,601		
1945 .....	674,478	205,600	Not available separately	
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
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

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

<sup>2</sup>. Factory sales.

<sup>3</sup>. Includes "Resistance welding equipment with controls".

TABLE 24. Factory Shipments of Industrial Control Equipment, 1952 and 1953

Item	Value of factory shipments
	\$
1952	
Starting and control equipment for electric railway and vehicle motors .....	773,000
(a) A.C. reduced voltage starters, manual and magnetic, for use with squirrel cage induction motors.....	803,072
A.C. manual starting switches for use with single phase and polyphase induction motors.....	783,987
A.C. magnetic control (exclusive of magnetic type in items (a) and (b)) .....	2,130,699
Synchronous motor starters, all types .....	569,267
D.C. magnetic control, including D.C. magnetic switches (line starters) .....	1,205,222
(b) A.C. magnetic switches (line starters) .....	2,650,766
A.C. control centres (assemblies of A.C. magnetic switches) .....	973,759
A.C. and D.C. drum switches and resistors for use with drum switches .....	329,890
A.C. and D.C. dial starters, rheostats and resistors other than those used with drum switches .....	478,713
A.C. and D.C. brakes .....	354,169
All other industrial control, including accessories .....	2,493,107
<b>Total</b> .....	<b>13,545,651</b>
1953	
Traction control—railway and mine locomotive, trolley coach, street car and self-propelled battery-operated lift trucks .....	650,000
A.C. full voltage manual starters for use with single and polyphase motors .....	956,359
(a) A.C. full voltage magnetic starters (single-speed) 600 volt maximum .....	1,767,938
(a) A.C. magnetic contactors and relays .....	409,542
(a) A.C. reduced voltage starters, manual and magnetic, for use with squirrel cage induction motors, 600 volt maximum .....	861,638
(a) A.C. low voltage control centres (factory assembled groups of combination magnetic switches)	1,094,904
(a) Synchronous motor starters .....	397,882
A.C. magnetic starters and panels (exclusive of types covered by items marked (a)) .....	2,214,377
A.C. and D.C. drum switches and dial starters; and resistors for use with drum switches .....	388,698
D.C. magnetic starters, contactors, relays and panels .....	782,275
A.C. and D.C. brakes .....	261,373
Accessories (pushbuttons, limit switches, etc.) .....	799,958
Industrial electronic control (relays, photo-electric timing, capacitance, etc.; and electronic control panels for industrial applications .....	412,060
All other industrial control, including repair parts .....	1,354,125
<b>Total</b> .....	<b>12,351,129</b>

TABLE 25. Factory Shipments of Domestic Water-Tank Heaters, 1952 and 1953 (From all Industries)

	1952		1953	
	Number	Value of factory shipments	Number	Value of factory shipments
		\$		\$
Cast iron, for coal, wood or oil (120 gallons or less)	2,332	87,184	1,507	68,853
Gas, automatic .....	18,417	1,401,423	22,341	1,610,833
Gas, not automatic .....	13,746	187,311	16,496	225,662
Electric, circulating type .....	38,829	382,455	42,819	351,608
Electric, immersion type .....	105,914	413,852	133,216	378,821
Clamp-on type .....	38,990	184,279	36,549	161,337
Electric, automatic storage tank type, including tank and controls .....	28,246	2,086,069	35,824	2,644,329
<b>Total</b> .....	<b>246,474</b>	<b>4,742,573</b>	<b>288,752</b>	<b>2,797,114</b>

TABLE 26. Production<sup>2</sup> of Household Mechanical Refrigerators<sup>1</sup>, 1944-53

Year	Number	Selling value at works
		\$
1944 .....	237	70,690
1945 .....	2,418	355,225
1946 .....	56,786	8,597,025
1947 .....	108,106	18,584,643
1948 .....	138,714	25,164,314
1949 .....	206,185	36,736,492
1950 .....	341,596	66,225,801
1951 .....	278,036	54,524,690
1952 .....	244,433	46,046,709
1953 .....	275,415	50,943,211

1. Complete units (electric and gas), all sizes.

2. Factory shipments since 1952.

TABLE 27. Factory Shipments of Refrigeration Equipment, 1952 and 1953 (From All Industries)

Type	1952		1953	
	Number	Selling value at works	Number	Selling value at works
	\$			\$
<b>Household refrigerators:</b>				
Household mechanical refrigerators, complete units (electric and gas), all sizes .....	244,433	46,046,709	275,415	50,943,211
Household ice refrigerators - Metal .....	2,368	63,691	1,329	27,658
- Wood .....	60	3,600	-	-
Steel cabinets for mechanical refrigerators .....	12,609	638,043	10,944	601,891
<b>Self-contained units:</b>				
Milk coolers, all sizes .....	968	255,911	969	262,232
Ice-cream cabinets, all sizes .....	5,408	1,976,956	5,089	1,794,055
Beverage coolers, all sizes .....	6,537	1,376,612	5,256	972,711
Water-coolers, all sizes .....	257	56,787	10	38,234
Freezers - Frosted food cabinets .....	599	426,842	828	571,306
- Home freezers, all sizes .....	5,223	1,539,118	7,456	2,133,304
<b>Fixtures:</b>				
Display cases, normal temperature .....	761	489,916	2,260	1,490,029
Low-temperature refrigerators .....	87	40,777	174	117,257
Reach-in refrigerators (remote only) .....	309	162,603	839	433,810
Sectional walk-in coolers, all types .....	368	327,803	410	381,196
<b>Self-contained commercial refrigerator products:</b>				
Display cases, all sizes .....	1,678	1,191,244	649	387,143
Reach-ins, all sizes .....	1,197	412,495	833	288,577
<b>Evaporators:</b>				
Unit cooler type, all sizes .....	3,187	476,367	3,187	485,238
Fin coils, all sizes .....	7,558	437,576	9,114	717,126
Ice-makers - Domestic .....	18,600	325,723	19,670	318,523
- All other sizes .....	-	67,923	-	117,329
<b>Compressors and condensing units:</b>				
Domestic, for assembly in individual household cabinets .....	47,465	2,307,677	80,862	4,308,395
Commercial - Low pressure .....	4,908	1,364,152	5,768	1,570,828
- Ammonia .....	27	99,956	21	76,135
<b>Evaporative condensers:</b>				
Low pressure .....	3,378	176,998	3,461	141,153
Ammonia .....	42	165,619	18	53,973
All other refrigeration equipment .....	-	5,448,174	-	7,550,149
<b>Total .....</b>	-	<b>65,879,272</b>	-	<b>75,781,463</b>

TABLE 28. Factory Shipments of Cutouts and Fuses, 1952 and 1953

Type	Selling value at works	
	1952	1953
	\$	\$
Primary cutouts:		
15,000 volts and less, except oil type .....	1,047,699	995,965
Over 15,000 volts, except oil type .....	142,800	122,515
Oil type .....		
Individual cutouts for cartridge and plug fuses .....	216,682	210,430
Cartridge fuses .....	675,418	669,468
All other fuses .....	1,372,111	737,103
Renewal elements for fuses .....	234,168	209,556
<b>Total</b> .....	<b>3,688,878</b>	<b>2,945,037</b>

TABLE 29. Factory Shipments of Electric Lighting Fixtures, 1952 and 1953 (From All Industries)

Type	Selling value at works	
	1952	1953
	\$	\$
Residential:		
Incandescent .....	2,948,133	2,983,119
Fluorescent .....	357,794	2,152,392
Commercial and industrial:		
Incandescent .....	3,319,916	3,249,467
Fluorescent .....	9,383,330	9,290,300
Street-lighting .....	2,146,444	1,650,938
Searchlights and floodlights .....	806,563	758,868
Exterior lighting control devices and other lighting equipment <sup>1</sup> .....	2,034,716	3,157,905
<b>Total</b> .....	<b>20,996,896</b>	<b>23,242,989</b>

1. Does not include floor lamps or table lamps.

TABLE 30. Factory Shipments of Wiring Devices, 1952 and 1953

Type	Selling value at works	
	1952	1953
	\$	\$
Sockets (lamp holders):		
Brass shell .....	295,001	317,146
Porcelain and moulded .....	817,925	875,805
Switches:		
Surface and flush types .....	909,876	1,071,707
Appliance .....	1,108,191	1,278,994
Canopy and pendant .....	48,685	55,485
All other .....	331,850	419,613
Receptacles (convenience outlets) single and duplex .....	880,063	1,171,141
Wall plates for switches and outlets .....	283,947	242,228
Attachment plugs, caps and cord connectors .....	384,329	362,104
Heater (or appliance) plugs and other plug devices .....	240,217	262,480
Cord sets (all types) .....	1,062,992	1,078,155
Outlet and switch boxes .....	2,569,989	2,203,297
Outlet box connectors .....	831,735	915,920
Other wiring devices (except automobile starting switches and time switches) .....	3,008,103	4,540,044
<b>Total</b> .....	<b>12,772,903</b>	<b>14,794,119</b>

TABLE 31. Factory Shipments of Converter Equipment, 1952 and 1953

Type	Number	Total rating	Selling value at works
1952			
Motor-generator sets:			\$
A.C. to D.C. ....	364	27,182 k.w.	1,436,880
A.C. to A.C. ....	42	395 k.w.	53,853
Synchronous converters and double-current generators .....	—	—	—
Dynamotors, balancer sets and boosters .....	—	—	—
Mercury arc rectifiers for power purposes .....	—	—	834,001
Parts and supplies for converter equipment.....	—	—	
<b>Total</b> .....	—	—	<b>2,324,734</b>
1953			
Motor-generator sets:			
A.C. to D.C. ....	242	36,550 k.w.	1,098,093
A.C. to A.C. ....	5	199 k.w.	252,747
Synchronous converters and double-current generators .....	—	—	—
Dynamotors, balancer sets and boosters .....	—	—	—
Mercury arc rectifiers for power purposes .....	—	—	1,964,290
Parts and supplies for converter equipment.....	—	—	
<b>Total</b> .....	—	—	<b>3,315,130</b>

TABLE 32. Production<sup>1</sup> of Pole Line Hardware, 1944-1953 (From All Industries)

Year	Selling value at works	Year	Selling value at works
\$			
1944 .....	1,098,582	1949 .....	6,987,494
1945 .....	1,408,991	1950 .....	6,395,063
1946 .....	2,908,760	1951 .....	9,339,000
1947 .....	4,388,444	1952 .....	10,212,583
1948 .....	5,525,302	1953 .....	8,169,035

1. Factory shipments since 1952.

TABLE 33. Production<sup>3</sup> of Domestic Washing Machines, 1944-1953 (From All Industries)

Year	Hand		Electric			Gasoline		Total	
			Automatic		Conventional <sup>2</sup>				
	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works	Number
1944 .....		\$		\$		\$		\$	
1944 .....	10,162	146,873		22,967	1,467,458	729	64,255	33,858	1,678,586
1945 .....	9,753	129,353		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	1	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 .....	2,559	40,228	30,310	4,344,593	252,926	22,815,441	15,323	1,961,979	301,110
1951 .....	382	6,672	26,951	5,409,527	198,149	19,611,547	11,248	1,418,120	236,730
1952 .....	641	12,915	26,523	4,985,666	216,235	21,293,150	10,184	1,255,334	253,583
1953 .....	1	22	26,427	5,149,210	211,278	21,747,767	10,118	1,164,607	247,824
									28,061,606

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

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 and 1,896 units valued at \$107,768 in 1953.

3. Factory shipments since 1952.

**TABLE 34. Production<sup>1</sup> of Domestic Electric Ironing Machines, 1944-1953 (From All Industries)**

Year	Number	\$
1944.....	—	—
1945.....	9	1,030
1946.....	—	—
1947.....	7,928	529,231
1948.....	17,215	1,309,980
1949.....	18,058	1,349,433
1950.....	19,129	1,527,938
1951.....	10,342	895,429
1952.....	12,316	906,010
1953.....	11,112	886,979

1. Factory shipments since 1952.

**TABLE 35. Production of Miscellaneous Electrical Appliances, 1949-1953**

Year	Heating pads		Clothes-dryers, automatic electric		Food mixers		Electric blankets	
	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works
		\$		\$		\$		\$
1949.....	120,832	512,568	1	53,392	1,335,468	—	—	—
1950.....	143,613	539,092	1	78,303	1,929,135	—	—	—
1951.....	128,780	496,286	1	56,525	1,744,052	12,587	251,755	—
1952.....	118,454	460,742	7,931	1,291,145	57,513	1,683,112	9,365	214,406
1953.....	130,512	483,166	16,851	2,592,704	83,799	2,243,847	13,990	328,763

1. Not available separately.

**TABLE 36. Imports and Exports of Specified Electrical Products, 1952 and 1953**

Product	1952		1953	
	Number	Value	Number	Value
		\$		\$
(a) IMPORTS:				
Batteries for flashlights, and parts.....	—	108,695	—	130,336
Batteries, hearing-aid, and parts.....	—	373,266	—	487,794
Batteries, electric and galvanic primary, and complete parts, n.o.p.	—	295,771	—	394,541
Storage batteries, n.o.p., and parts, including separator walls of wood.....	—	1,539,759	—	1,323,082
Cleaners, electric vacuum.....	67,899	2,067,729	104,068	3,456,726
Cleaners, hand-vacuum, and attachments, and complete parts of all vacuum cleaners.....	—	854,420	—	1,478,516
Cooking stoves, electric, valued at more than \$25 each.....	6,332	809,569	14,328	1,838,411
Space-heating and cooking apparatus, electric, n.o.p.....	—	2,165,638	—	2,949,718
Heating apparatus, electric, other than for cooking or space-heating.....	—	952,049	—	1,257,446
DYNAMOS OR GENERATORS, AND PARTS.....	—	8,248,641	—	9,982,162
Fuses, fuse plugs and cutouts, electric, and complete parts, n.o.p.	—	702,349	—	797,900
Fluorescent tubes and other arc lamps.....	168,470	119,953	542,342	405,983
Home or farm freezers, electric.....	1	—	35,302	7,683,776
Photoflash lamps.....	1,808,612	142,746	3,474,209	280,102
Lamps, electric, incandescent, carbon filament.....	16,404	4,867	16,501	2,981
Lamps, electric, incandescent, metal filament.....	9,133,404	875,791	26,586,738	3,228,585
Lights - electric, head, side and tail lights, n.o.p.: electric torches or flashlights and parts.....	—	980,298	—	1,078,325
Electric light fixtures and appliances, n.o.p., and complete parts	—	4,376,460	—	5,470,324

TABLE 36. Imports and Exports of Specified Electrical Products, 1952 and 1953 - Concluded

Product	1952		1953	
	Number	Value	Number	Value
	\$		\$	
(a) IMPORTS - concluded:				
Lightning arresters, choke coils, reactors and other protective devices, and complete parts, n.o.p.	-	182,071	-	242,285
Magneton and complete parts, for the manufacture of internal combustion engines	-	42,397	-	51,419
Electrical instruments and apparatus of precision of a class or kind not made in Canada, as enumerated in tariff item 445n.	-	3,428,783	-	4,447,845
Meters, electric, and complete parts	-	1,446,209	-	1,554,915
Motors, electric, valued at less than \$10 each	99,614	377,348	119,740	359,370
Motors, electric, n.o.p., valued at \$10 or over and complete parts	-	16,107,199	-	15,539,332
Refrigerators, electric, domestic or store, completely equipped or not	202,506	33,439,964	184,749	30,449,035
Refrigerators, n.o.p., equipped or not	4,878	736,834	4,305	663,746
Refrigerators, parts of	-	9,713,756	-	16,733,904
Rheostats, controllers and other starting and controlling devices, and parts, n.o.p.	-	8,309,586	-	9,020,403
Sad irons, electric, and parts	-	194,479	-	406,124
Self-contained lighting outfits and parts, n.o.p.	-	75,903	-	62,357
Sockets, outlets and receptacles and parts, n.o.p.	-	1,260,173	-	1,722,431
Spark plugs, magnetos, n.o.p., and other ignition apparatus and parts	-	124,537	-	106,639
Switches, switchboards, n.o.p., circuit breakers and parts	-	9,504,448	-	10,650,623
Switch gear, flame-proof, electric, for use underground in coal mines, and parts	-	138,972	-	144,894
Telegraph apparatus, electric, and parts	-	3,088,092	-	4,108,351
Telephone apparatus, electric, and parts	-	8,158,397	-	8,946,907
Television receiving sets	1		16,973	2,253,643
Transformers and parts, n.o.p.	-	4,046,086	-	5,014,497
Washing machines, electric, domestic	13,355	1,289,421	29,233	2,605,057
Washing machines, domestic, parts of	-	1,686,397	-	2,610,956
Radio tubes	2,752,218	4,960,353	12,458,719	24,718,403
Radios, tourists' purchases	62,982	2,312,079	1	
Radio receiving sets	19,476	1,345,106	24,364	1,253,634
Radio receiving sets, parts of, as enumerated in tariff item 445o	-	3,412,065	-	10,889,816
Radio tube parts as enumerated in tariff item 445p	-	1,877,467	-	3,655,554
Radio and wireless apparatus, electric, n.o.p.	-	21,972,188	-	41,695,034
Electric dry-shaving machines, for use in removing human hair, and parts thereof	-	1,450,271	-	2,385,024
Electric steam turbo generator sets, 700 h.p. and greater, of a class or kind not made in Canada, and parts	18	6,526,173	11	7,354,067
Electric or gas welding apparatus, not including motors	-	5,317,008	-	5,259,564
Sound equipment	-	1,354,989	-	1,993,013
Electrical apparatus, n.o.p., and parts	-	16,289,068	-	19,879,738
Total accounted for	-	194,785,820	-	269,025,288
(b) EXPORTS:				
Batteries, storage, and parts	-	345,823	see next two items	
Storage batteries	1	25,383	367,700	
Storage battery parts	1		32,746	
Batteries and parts, n.o.p.	-	544,987	-	38,629
Radio receiving sets (except batteries)	34,131	1,454,271	23,329	994,208
Radio and wireless apparatus, n.o.p. (except batteries)	-	12,838,381	-	22,927,491
Telegraph and telephone apparatus, n.o.p.	-	1,464,296	-	2,386,885
Transformers and parts	-	4,293,570	-	718,123
DYNAMOS AND GENERATORS, AND PARTS	-	3,417,205	-	1,677,658
Electric meters and parts	-	2,094,061	-	1,477,682
Electric motors and parts	112,202	1,863,853	52,703	1,001,608
Electric stoves and parts	583	97,274	532	84,036
Electric heating and cooking devices, domestic, n.o.p.	-	36,206	-	40,928
Spark plugs, magnetos and other ignition apparatus	-	1,761,086	see next two items	
Spark plugs	1		1,597,706	
Electrical parts for vehicles and engines	1		207,736	
Switches, sockets and other wiring devices	-	98,389	-	124,537
Electric lamps and shades	-	19,490	-	19,314
Electric light fixtures and parts	-	48,749	-	60,183
Washing machines, domestic, electric	10,794	1,164,032	5,705	625,504
Electric vacuum cleaners and parts	532	28,890	26	6,493
Refrigerators and parts, power	1,691	294,396	1,944	461,774
Electrical apparatus, n.o.p.	-	3,647,772	-	4,073,066
Total accounted for	-	35,512,731	-	38,924,007

1. Not available separately.

TABLE 37. Employees and Earnings in the Electrical Apparatus and Supplies Industry, by Provinces, 1952 and 1953

Province	Number of employees				Earnings			
	Supervisory and office		Production and related workers		Total employees	Supervisory and office	Production and related workers	Total earnings
	Male	Female	Male	Female				
1952						\$	\$	\$
Nova Scotia and Quebec .....	4,185	1,648	9,909	3,522	19,264	21,370,687	38,342,959	59,713,646
Ontario .....	9,386	3,969	26,134	9,044	48,533	49,531,792	104,760,872	154,292,664
Manitoba .....	119	34	383	163	699	509,220	1,050,661	1,559,881
Alberta .....	3	3	20	6	32	15,541	62,775	78,316
British Columbia .....	130	42	450	50	672	612,532	1,307,897	1,920,429
Canada .....	13,823	5,696	36,896	12,785	69,200	72,039,772	145,525,164	217,564,936
1953								
Nova Scotia and Quebec .....	4,606	1,827	10,261	3,902	20,596	25,394,900	43,049,255	68,444,155
Ontario .....	10,760	4,479	27,584	11,912	54,735	59,708,029	118,013,008	177,721,037
Manitoba .....	132	49	503	148	832	668,586	1,598,334	2,286,920
Alberta .....	8	4	34	4	50	38,082	82,762	120,844
British Columbia .....	148	42	403	50	643	763,928	1,329,893	2,093,821
Canada .....	15,654	6,401	38,785	16,016	76,856	86,573,525	164,073,252	250,646,777

TABLE 38. Capital and Repair Expenditures in the Electrical Apparatus and Supplies Industry, 1949-1953

Industry	Capital expenditures		Repair and maintenance expenditures		Total capital and repair expenditures
	Construction	Machinery and equipment	Construction	Machinery and equipment	
\$'000					
1949					
Batteries .....	96	454	71	319	940
Heavy electrical machinery and equipment .....	3,896	6,651	582	3,840	14,969
Radios and radio parts .....	59	668	177	670	1,574
Refrigerators, vacuum cleaners, and appliances .....	303	1,463	395	647	2,808
Miscellaneous electrical products .....	435	4,838	769	3,926	9,968
Total .....	4,789	14,074	1,994	9,402	30,259
1950					
Batteries .....	57	386	82	355	880
Heavy electrical machinery and equipment .....	1,052	4,616	484	4,046	10,198
Radios and radio parts .....	247	1,100	249	777	2,373
Refrigerators, vacuum cleaners, and appliances .....	1,065	2,571	506	1,111	5,253
Miscellaneous electrical products .....	712	4,124	719	4,153	9,708
Total .....	3,133	12,797	2,040	10,442	28,412
1951					
Batteries .....	87	490	92	384	1,053
Heavy electrical machinery and equipment .....	3,470	5,874	598	4,956	14,898
Radios and radio parts .....	2,345	1,727	306	941	5,319
Refrigerators, vacuum cleaners, and appliances .....	6,793	4,463	398	1,152	12,806
Miscellaneous electrical products .....	3,565	5,783	789	3,979	14,116
Total .....	16,260	18,337	2,183	11,412	48,192

TABLE 38. Capital and Repair Expenditures in the Electrical Apparatus and Supplies Industry, 1949-1953 — Concluded

Industry	Capital expenditures		Repair and maintenance expenditures		Total capital and repair expenditures
	Construction	Machinery and equipment	Construction	Machinery and equipment	
\$'000					
1952					
Batteries .....	442	763	75	377	1,657
Heavy electrical machinery and equipment .....	10,779	6,886	1,030	4,177	22,872
Radios and radio parts .....	1,572	1,710	397	1,052	4,731
Refrigerators, vacuum cleaners, and appliances .....	4,066	4,891	301	1,442	10,700
Miscellaneous electrical products .....	6,700	5,536	1,062	4,956	18,254
Total .....	23,559	19,786	2,863	12,004	58,214
1953 <sup>1</sup>					
Batteries .....	1,177	1,045	48	389	2,659
Heavy electrical machinery and equipment .....	9,046	5,664	1,028	4,932	20,670
Radios and radio parts .....	2,546	2,976	333	1,399	7,254
Refrigerators, vacuum cleaners, and appliances .....	1,134	2,443	268	1,668	5,513
Miscellaneous electrical products .....	2,460	5,896	766	4,953	14,075
Total .....	16,363	18,024	2,443	13,341	50,171

1. Preliminary.

TABLE 39. Fuel and Electricity Used<sup>1</sup> in the Electrical Apparatus and Supplies Industry, 1948 and 1953

Kind	Unit of measure	1948		1953	
		Quantity	Cost at works	Quantity	Cost at works
		\$		\$	
Bituminous coal — From Canadian mines .....	ton	376	4,568	4,054	50,626
Imported .....	"	116,900	1,208,698	84,074	921,551
Sub-bituminous coal (from Alberta mines only) .....	"	1	9	9,349	100,051
Anthracite coal .....	"	1,072	16,937	1,638	20,805
Lignite coal .....	"	679	3,354	685	4,501
Coke (for fuel only) .....	"	2,676	56,865	2,876	71,035
Gasoline .....	Imp. gal.	394,085	126,809	684,202	251,651
Kerosene or coal oil .....	" "	18,141	4,097	11,036	3,114
Fuel oil .....	" "	5,052,237	645,376	11,229,838	1,352,015
Wood .....	cord	9	73	2	26
Gas — Liquefied petroleum gases (propane, etc.) .....	Imp. gal.	2	2	468,473	94,761
Other manufactured gas .....	M. cu. ft.	374,738	296,305	460,376	494,616
Natural gas .....	" " "	28,014	21,690	24,732	20,404
Other fuel .....	—	—	60,674	—	104,978
Electricity purchased .....	k.w.h.	180,612,393	1,601,035	348,406,599	3,468,610
Total .....	—	—	4,046,490	—	6,956,744
Electricity generated for own use .....	k.w.h.	17,498,920	—	10,219,867	—

1. Details shown in Tables 39 and 40 are collected only every five years; accordingly, data for intervening years are not available.

2. Not available separately.

TABLE 40. Power Equipment<sup>1</sup>, 1948 and 1953

	Ordinarily in use		In reserve or idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
1948				
Steam engines .....	18	402	—	—
Steam turbines .....	13	6,474	2	173
Diesel engines .....	2	207	4	566
Gasoline, gas and oil engines, other than Diesel .....	12	126	4	171
Hydraulic turbines or water-wheels .....	7	4,400	—	—
Electric motors run by purchased power (except motor-generator sets) .....	28,657	129,452	1,319	4,548
<b>Total</b> .....	<b>28,709</b>	<b>141,061</b>	<b>1,329</b>	<b>5,458</b>
Electric motors run by power generated by above primary units (except motor-generator sets) .....	216	2,058	1	225
Stationary power boilers .....	48	9,504	4	405
Motor-generator sets .....	470	62,658 k.v.a.	24	1,240 k.v.a.
1953				
Steam engines .....	8	87	—	—
Steam turbines .....	12	3,587	7	4,698
Diesel engines .....	8	740	9	5,320
Gasoline, gas and oil engines, other than Diesel .....	6	204	3	382
Hydraulic turbines or water-wheels .....	7	3,975	—	—
Electric motors run by purchased power (except motor-generator sets) .....	45,057	233,780	2,209	6,563
<b>Total</b> .....	<b>45,098</b>	<b>242,373</b>	<b>2,228</b>	<b>16,963</b>
Electric motors run by power generated by above primary units (except motor-generator sets) .....	—	—	—	—
Stationary power boilers .....	60	28,037	8	1,105
Motor-generator sets .....	451	67,007 k.v.a.	13	1,351 k.v.a.

1. See footnote to Table 39.

## Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1953

Name of firm	Location of plant
<b>(a) Batteries</b>	
Quebec:	
Hart Battery Company Limited .....	170 St. George St., St. Johns
New Era Battery Company .....	2240 Bellechasse St., Montreal
Service Specialty Company Ltd. .....	1858 St. Luke St., Montreal
Ontario:	
Burgess Battery Company .....	415 Buttrey St., Niagara Falls
Exide Batteries of Canada Ltd. .....	153 Dufferin St., Toronto and 663 Warden Ave., Scarborough
General Dry Batteries of Canada Ltd. .....	228 St. Helen's Ave., Toronto
Gould-National Batteries of Canada, Ltd. .....	Maple St., Kingston
Hay Battery Co., Limited, The .....	1300 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 .....	1021 Winnipeg Ave., Winnipeg
Ray-O-Vac (Canada) Limited .....	Berry St. and Sargent, St. James

## Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1953 - Continued

Name of firm	Location of plant
<b>(a) Batteries - Concluded</b>	
<b>Alberta:</b>	
Alberta Battery Company Ltd. ....	1312 Centre St. S., Calgary
Calgary Battery Co. ....	111-12th Ave. W., Calgary
Gould-National Batteries of Canada, Ltd. ....	510C-6th St. E., Calgary
<b>British Columbia:</b>	
Dollina Enterprises Ltd., Arron Batteries Division ....	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
International Battery Corp. Limited ....	1130 Richards St., Vancouver
Island Battery Service ....	116-2nd Ave., Port Alberni
Jones Bros. Batteries, Limited ....	1314 Quadra St., Victoria
Major Batteries Ltd. ....	271 Ingram St., Duncan
<b>(b) Heavy Electrical Machinery and Equipment</b>	
<b>Quebec:</b>	
Air Reduction Canada Limited ....	905 Hodge St., Montreal
Alpha Electronic Products Co. Ltd. ....	973 Jean Talon St. W., Montreal
Beaupre Engineering Works Co. ....	3935 Newmarch St., Verdun
Bepco Canada Ltd. ....	4018 Ste. Catherine St. W. Montreal
Brown, Boveri (Canada) Ltd. ....	St. Johns
Devoe Electric Switch Co. Ltd., The ....	475 Metropolitan Blvd., Lachine
Electrical Mfg. Co. Ltd. ....	4th St., Montmagny
Electric Tamper & Equipment Co. of Canada Ltd. ....	160 St. Joseph St., Lachine
Electric Switchgear Ltd. ....	115 St. Denis Ave., St. Lambert, Montreal
Hughes, Benjamin, Electric Company ....	12050 Reed St., Montreal
Les Transformateurs Ponco Ltée ....	3950 Wellington St., Verdun
Universal Wire & Cable Co. Ltd., The ....	2155 Moreau St., Montreal
White, T.N., & Sons Limited ....	471 De La Friponne St., Montreal
<b>Ontario:</b>	
Acme Electric Corporation Ltd. ....	Northline Rd. #50, Toronto
Allanson Armature Mfg. Co. Ltd. ....	33 Cranfield Rd., Toronto
Amalgamated Electric Corp. Ltd. ....	384 Pape Ave., Toronto
Canadian Controllers Limited ....	169 Eastern Ave., Toronto
Canadian Electric and Stampings 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 Sterling Electric Ltd. ....	430 Cannon St. E., Hamilton
Canadian Westinghouse Co. Ltd. ....	286 Sanford Ave. N., Hamilton; Aberdeen Ave., Hamilton
Cansfield Electrical Works Limited ....	260 Geary Ave., Toronto
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
F.H. Welding Machines Ltd. ....	868 Walker Rd., Windsor
Fraser, D.M., Limited ....	1070 Birchmont Rd., 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
Nelson Stud Welding Corp. (Canada) Ltd. ....	108 Tycos Dr., Toronto
Packard Electric Co. Limited ....	Race Street, St. Catharines
Powerlite Devices Ltd. ....	1870 Davenport Road, Toronto
Progressive Welder (Canada) Ltd. ....	635 Richmond St., Chatham
Redmond Motors of Canada Ltd. ....	121 Woodworth Ave., St. Thomas
Reliance Electric & Engineering (Canada) Limited ....	130 Dennistoun St., Welland
Richardson-Allen of Canada Ltd. ....	370 Victoria St., Toronto
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., Mimico

## Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1953 - Continued

Name of firm	Location of plant
<b>(b) Heavy Electrical Machinery and Equipment — Concluded</b>	
Manitoba:	
Amalgamated Electric Corp. Ltd. ....	677 Notre Dame Ave., Winnipeg
Pioneer Electric Limited .....	102 Herbert St., St. Boniface
Alberta:	
Pioneer Electric Alberta Ltd. ....	5727 - 53A Ave., Red Deer
British Columbia:	
Cemco Electrical Mfg. Co. Limited .....	22 E. 5th Avenue, Vancouver
Electric Panel Manufacturing Ltd. ....	1250 Richards St., Vancouver
<b>(c) Radios and Radio Parts</b>	
Nova Scotia:	
Cossor (Canada) Ltd. ....	301 - 303 Windsor St., Halifax
Quebec:	
Aerialite (Canada) Ltd. ....	5275 Cote St. Paul Rd., Montreal
Amplitrol Electronics Ltd. ....	844 William St., Montreal
Berry, C.M., Ltd. (owners of Can. Aero. Radio) .....	243 Dunbar Ave., Montreal
Canadian Aviation Electronics Ltd. ....	8280 St. Lawrence Blvd., Montreal
Canadian Marconi Company .....	2440 Trenton Road, Montreal
Chaput, Paul, Limitée .....	2222 Ontario St. E., Montreal
Electrical Products Mfg. Co. Ltd. ....	5680 Fullum St., Montreal
Electrolabs Reg'd. ....	7385 St. Lawrence Blvd., Montreal
Electronic Enterprises Ltd. ....	930 St. George St., Montreal
Emerald Television Corp. Ltd. ....	7857 Decarie Blvd., Montreal
Federal Electric Manufacturing Co. Ltd. ....	9600 St. Lawrence Blvd., Montreal
Lifco Record Players .....	408 St. James St. W., Montreal
Monarch Radio Mfg. Co. ....	3839 Arcade St., Montreal
Norel Electrical Products .....	7780 Birnam St., Montreal
RCA Victor Company Limited .....	1001 Lenoir St., Montreal
Radio Communications Equipment & Engineering Ltd. ....	850 Fifth Ave., Lachine
Radio Engineering Products Ltd. ....	4305 Iberville St., Montreal and 325 Decelles St., Granby
Record Players Corp. ....	9600 St. Lawrence Blvd., Montreal
S.K.S. Electronics Mfg. Ltd. ....	19 Notre Dame E., Montreal
Televox Systems Reg'd. ....	788 St. Bernard St., Montreal
Ontario:	
Aerovox Canada Limited .....	1551 Barton St. E., Hamilton
Antiference (Canada) Ltd. ....	140 Kendal Ave., Toronto
Arcan Corporation Ltd. ....	Reid and Dunsmure Ave., Hamilton
Arrow Radio Co. ....	1829 Davenport Rd., Toronto
Audio Transformer Co. ....	56 King St. N., Waterloo
Automatic Radio of Canada, Ltd. ....	56 Esplanade St. E., Toronto
Baldwin-International Limited .....	3006 Bloor St. W., Toronto
Benco Television Associates Ltd. ....	130 Simcoe St., Toronto
Cahoon, L.D., & Company Ltd. ....	2271 Danforth Ave., Toronto
Canadian Admiral Corp. Ltd. ....	501 Lakeshore Rd., Port Credit
Canadian Arsenals Limited, Instrument & Radar Division .....	Vanderhoof Ave., Leaside, and Scarborough
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
Canadian Stack Pole Ltd. ....	550 Evans Ave., Toronto
Cannon Electric Co. Ltd. ....	2451 Danforth Ave., Toronto
Capital Television Ltd. ....	2197 Gerrard St., Toronto
Centerlab A Div. of Globe Union Canada Ltd. ....	Ajax
Consolidated Electronic Equipment Co. ....	1156 Yonge St., Toronto
Copper Wire Products Ltd. ....	137 Oxford St., Guelph
Coronet Television Corporation .....	1801 Walker Rd., Windsor
Crosley Radio & Television Division, Avco of Canada Ltd. ....	121 McCormack St., Toronto
Crystal Radio of Canada Ltd. ....	56 Esplandade St. E., Toronto
Deca Mfg. ....	870 Eastern Ave., Toronto
Delhi Metal Products Co. ....	Waverly St., Delhi
Dominion Electrohome Industries Ltd. ....	39 Edward St., and 480 Victoria St., Kitchener
Electronic Materiels International Ltd. ....	342 Gladstone Ave., Ottawa
Erie Resistor of Canada Ltd. ....	7 Fraser Ave., Trenton
Essex Electronics of Canada Ltd. ....	99 Wragge St., Trenton
Farley, T.S., Limited .....	174 Catherine St. N., Hamilton
Hallicrafter Canada Ltd. ....	51 Camden St., Toronto
Ideai Vender Co. of Canada Ltd. ....	Deseronto
Industrial Electronics of Canada Ltd. ....	4889 Dundas St. W., Toronto

## Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1953 - Continued

Name of firm	Location of plant
<b>(c) Radios and Radio Parts - Concluded</b>	
Ontario - concluded:	
International Resistance Co. Ltd.	349 Carlaw Ave., Toronto
Kelk, G.F., & Co.	1195A Lawrence Ave. W., North Park
Manning Radio Ltd.	7 St. Clair Ave. W., Toronto
Marsland, Eric, & Co.	824 Victoria St. N., Kitchener
McCurdy Radio Industries	74 York St., Toronto
Measurement Engineering Limited	Arnprior
Meredith, C.C., & Co., Limited	Queen N. and Elgin Sts., Streetsville
Micro Engineering Laboratory	1195 Lawrence Ave. W., Toronto
Millard Electric Ltd.	27 Cockburn St., Perth
Motorola Canada Ltd.	211 Geary Ave., Toronto
Northern Electric Co. Ltd.	250 Sidney St., Belleville
Philco Corporation of Canada Ltd.	1244 Dufferin St., Toronto
Product Engineering Co.	1660 Durham Place, Windsor
Pye Canada Limited	First Street, Ajax
Radio Condenser Co. Ltd.	6 Bermondsey Rd., Toronto
Radio Speakers (Canada) Ltd.	37 Hanna Ave., Toronto
Radio Valve Co. of Canada Ltd.	189 Dufferin St., Toronto
R.C.A. Victor Co. Ltd.	Prescott
Sigmar Mfg. Co. Ltd.	29 Milford Ave., Delray
Smallwood, S.G., Limited	397 King St. E., Kitchener
Snelgrove, C.R., Co. Ltd.	391 Sammon Ave., Toronto
Soundmaster Equipment	256 Kent St., Ottawa
Sparton 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 Corp. of Canada Ltd.	MacDonald Avenue, Belleville
Superb Electric Industries Ltd.	751 Bathurst St., Toronto
Telecom Limited	93 Church St., Toronto
Televquipment Mfg. Co.	729 Dundas St. (rear), London
Tipping, Stanley, Esq.	36 Esgore Drive, Toronto
United Television Co. Ltd.	625 Yonge St., Toronto
Valeriote Electronics Ltd.	11 Victoria Rd., Guelph
Watt Electronic Products Ltd.	140 Sydney St. S., Kitchener
White Radio Ltd.	41 West Ave. N., Hamilton
Manitoba:	
Canadian Aviation Electronics Ltd.	387 Sutherland Ave., Winnipeg
Alberta:	
Electronic Research & Development Co. Ltd.	512-9th St. W., Calgary
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
Elrad Electronics Ltd.	3293 Main St., Vancouver
Humble Manufacturing Co. Ltd.	1695 West 2nd Ave., Vancouver
Magneton Panel Co. Ltd.	1840 W. 1st Ave., Vancouver
McCarter Radio & Television Co.	1625 W. 3rd Ave., Vancouver
Research Industries Ltd.	1777 W. 3rd Ave., Vancouver
Sims Laboratories	Sidney
Spilsbury & Tindall Ltd.	44 Water St., Vancouver
West Coast Radio Telephone Mfg. Co.	1366 W. Pender St., Vancouver
<b>(d) Refrigerators, Vacuum Cleaners and Appliances</b>	
Quebec:	
Canadian Armature Works	6595 St. Urbain St., Montreal
Canadian General Electric Company Ltd.	5781 Notre Dame St. E., Montreal
Colsan Limited	636 St. Paul St. W., Montreal
Danby Appliance Co., The	2157 St. Patrick St., Montreal
Electriglas Distributors of Canada Ltd.	2456 Des Carrières St., Montreal
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
Imperial Electrical Mfg. & Contracting Co.	1617 St. Urbain St., Montreal

## Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1953 - Continued

Name of firm	Location of plant
<b>(d) Refrigerators, Vacuum Cleaners and Appliances - Continued</b>	
Quebec - concluded:	
Lalonde, Frank P., Ltd.	Dorval
Progress Restaurant & Equipment Mfg. Ltd.	4865 St. Lawrence Blvd., Montreal
Racine Mfg. Co.	Granby
Roy, E., Industries, Ltd.	L'Assomption
Wright, P.M., Electrical Co.	1327 Dorchester St. W., Montreal
Ontario:	
Addison Industries Limited	9-11 Hanna Ave., Toronto
Air-Coils Mfg. Co. Ltd.	29 Brock St. N., Oakville
Backer, C.B., Company Ltd.	25 Aberdeen St., Ottawa
Brantford Washing Machine Ltd.	1623 St. Clair Ave. W., Toronto
Brock Snyder Mfg. Co., The	21 John St., Grimsby
Canadian Chromalox Co. Ltd.	251 Queen St. E., Toronto
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
Canadian General Electric Co. Ltd.	Etobicoke
Carrier Engineering Ltd.	857 Queensway, Toronto
Chandler Electric Co.	3160 Dundas St. W., Toronto
Clyde Fans Limited	162 King St. E., Toronto
Continental Electric Co. Ltd.	310 Spadina Ave., Toronto
Domestic Electric Co.	272 Church St., Toronto
Dowe, Geo. P., Co. Ltd.	Spruce St., Richvale
Durable Electric Appliance Co.	81-83 Jarvis St., Toronto
Electric Magnetic Blanket Co.	52 King St. W., Cobourg
Endress, George W., Co. Ltd.	Third St., Ajax
Ever-Bright Ltd.	1415 Weston Rd., Toronto
Filtro Products	37 Mansion Ave., Toronto
Force Electric Products Limited	163 Church St., Acton
Frigidaire Products of Canada Ltd.	1901 Eglinton Ave. E., Scarborough
Gilson Manufacturing Co. Ltd.	York Road, Guelph
Glassheat of Canada Ltd.	150-7th St., New Toronto
Graham Metal Products Ltd.	Bishop St., Preston
Groh's Cooler Limited	Concession Rd., Preston
HanksCraft, (Canada) Ltd.	Third St., Ajax
High Test Electrical Mfg. Ltd.	127 Lennox St., Toronto
Hoover Company Ltd., The	Gage and Barton Sts., Hamilton
Hygrade Electric Mfg. Co.	841-843 College St., Toronto
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.	361 Jackson St. W., Hamilton
McGraw Electric Co. (Canada) Ltd.	75 Chisholm St., Oakville
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
Pittsburg Water Heater Co. of Canada	Elizabeth St., Grimsby
Premier Vacuum Cleaner Co. Ltd., The	18 Breadalbane St., Toronto
Pyrexon Ray Company Ltd.	1254 Dundas St. W., Toronto
Radianit Devices Ltd.	94 Yonge St., 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.	131 McCormack St., Toronto
Samson United of Canada Ltd.	69 Sherbourne St., Toronto
Schultz Mfg. Co. Ltd.	154-158 York St., Hamilton
Sea Breeze Mfg. Ltd. and Audio Tool & Eng. Ltd.	32 Water St., Toronto
Sidco Mfg. Co.	14 Breadalbane St., Toronto
Simms Motor Units of Canada Ltd.	88 Merton St., Toronto
Standard Appliance Mfg. Co. 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
Switson Industries Ltd.	201 Major St., Welland
Taymouth Industries Ltd.	426 Queen Elizabeth Blvd., Toronto
Thermax Limited	Orillia
Traid Appliances	1 Torbarrie Rd., 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

## Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1953 — Continued

Name of firm	Location of plant
<b>(d) Refrigerators, Vacuum Cleaners and Appliances — Concluded</b>	
Manitoba:	
Carter, J.B., Ltd., .....	902 Home St., Winnipeg
Coldstream Refrigerator Mfg. Ltd. ....	166 Osborne St., Winnipeg
Element Specialty Mfg. Co. ....	223 Morley Ave., Winnipeg
Master Products Co. ....	552 Selkirk Ave., Winnipeg
Red Devil Heating & Mfg. Co. ....	272 Selkirk Ave., Winnipeg
Supreme Electric Appliances Ltd. ....	1098 Winnipeg Ave., Winnipeg
British Columbia:	
Allied Engineering of B.C. Ltd. ....	Granville Island, Zone 1
Leeders Pacific Ltd. ....	New Westminster
Sweden Freezer Mfg. Co. of Canada	8107 Selkirk St., Vancouver
<b>(e) Miscellaneous Electrical Products</b>	
Quebec:	
Cables, Conduits & Fittings, Limited .....	77 Richelieu St., St. Johns
Canadian Cameo Chime Co. Ltd. ....	10332 Lille St., Montreal
Canadian General Electric Co. Ltd. ....	St. Malo
Canadian Laco Lamps Limited .....	745 Guy St., Montreal
Canadian Westinghouse Co. Ltd. ....	Granby
Canadian Westinghouse Co. Ltd. ....	Trois Rivières
Columbia Electric Limited .....	261 Queen St., Montreal
Conduits National Company Ltd. ....	10150 Notre Dame St. E., Montreal
Dominion Electric Protection Co. ....	2040 Clark St., Montreal
Economy Fuse & Mfg. Co. of Canada Ltd. ....	1030 St. Alexander St., Montreal
Electrolier Manufacturing Co. Ltd. ....	5849 Boyer St., Montreal
Flex-I-Con Mfg. Company Ltd. ....	6155 Lafontaine St., Montreal
Gaymont Manufacturing Corp. ....	455 Craig St. W., 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
Keith Lighting Co. ....	975 Aqueduct St., Montreal
L'Air-Liquide Society .....	5030 Rouen St., Montreal
Metal Spinning Works.....	1610 De Bullion St., Montreal
Mid-Day Fluorescent Fixtures Inc. ....	931 Amherst St., Montreal
Northern Electric Co. Ltd. ....	1261 Shearer St., Montreal
Peerless Electric Limited .....	5585 Fullum St., Montreal
Phillips Electrical Co. (1953) Ltd. ....	5795 De Gaspe St., Montreal
Rest-Glow Mfg. Co. Ltd. ....	5600 Pare St., Montreal
Rosemount Industries Co. Ltd. ....	2090 Moreau St., Montreal
Roy Industries Reg'd. ....	7848 Henri Julien, Montreal
Saxe Bros. Inc. ....	6215 Henri Julien Ave., Montreal
Solex Company Ltd., The, Dept. of C.G.E. Co. ....	280 Faillon St. W., Montreal
Spinning Craft Reg'd. ....	434 St. Pierre St., Montreal
Standard Electric Time Co. of Canada Ltd., The .....	726 St. Felix St., Montreal
Sylvania Electric "Canada" Ltd. ....	1 Sylvan Rd., Drummondville
Temco Electric Mfg. Co. ....	8045 Durocher Ave., Montreal
Tinsley, H., & Co. Ltd. ....	234, ave Ste-Paule, St-Jérôme
Val St. Laurent Crystal Co. Ltd. ....	704 Notre Dame St. W., Montreal
Ontario:	
Ardron-Mackie Ltd. ....	9 Niagara St., Toronto
Arrow-Hart & Hegeman (Canada) Ltd. ....	Industry Street, Toronto
Automatic Watchdog Controls Ltd. ....	4251 Dundas St. W., Toronto
Bach-Simpson Limited.....	1255 Brydges St., London
Baden-Electric Fence Co. ....	Baden
Bayly Engineering Ltd. ....	5-1st Street, Ajax
Bell Electricord & Safety Equipment Co. ....	11 Watkinson Ave., Toronto
Boston Insulated Wire & Cable Co. Ltd. ....	118 Shaw St., Hamilton
Bowman Electric Heraer .....	Petersburg
Branston, Chas. A., Limited .....	2508 Yonge St., Toronto
Burger Lighting Products Ltd. ....	27 Sackville Place, 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

## Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1953 — Continued

Name of firm	Location of plant
<b>(e) Miscellaneous Electrical Products — Continued</b>	
Ontario — continued:	
Canadian Electric Resistors Ltd.	Curity Ave., Toronto
Canadian Fluorescent Light Co.	308-310 Adelaide St. W., Toronto
Canadian General Electric Co. Ltd.	Dufferin St., Toronto
Canadian General Electric Co. Ltd.	Queen Elizabeth Highway, Oakville
Canadian General Electric Co. Ltd.	Peterborough
Canadian General Electric Co. Ltd.	940 Lansdowne Ave., Toronto
Canadian Line Materials Ltd.	St. Clair Ave., Scarborough Junction
Canadian Strobe & Electric Corp.	222 Front St. E., Toronto
Chadwick-Carroll Brass & Fixtures Limited	365 Wilson St., Hamilton
Colonial Lighting Co., The	608 King St., Port Colborne
Commercial Fixture Co. Ltd.	2368 Dundas St. W., Toronto
Conduits National Company Ltd.	33 Labatt Ave., Toronto
Cords (Canada) Ltd.	482 Wellington St. W., Toronto
Crouse-Hinds Company of Canada Ltd.	7-21 Labatt Ave., Toronto
Crown Electrical Mfg. Ltd.	19 Sydenham St., Brantford
Curtis Lighting of Canada Ltd.	195 Wicksteed Ave., Toronto
Dagleish Electric Supply	124 McNab St. N., Hamilton
Daly-Arrow Ltd.	140 Kendal Ave., Toronto
Dominion Carbon Brush Co. Ltd.	250 Richmond St. W., Toronto
Dominion Machine & Tool Co. Ltd.	12 Bater Ave., Toronto
Edwards of Canada Ltd.	625-6th St. E., Owen Sound
Electrical Mfg. Co. of Canada	208 Christie St. (rear), Toronto
Etlin, H. B., Co. Ltd.	1850 Wilson Ave., Toronto
Federal Wire & Cable Co. Ltd.	265 Suffolk St., Guelph
Five In One Fuse Ltd.	36-38 Caledonia Rd., Toronto
Fleck, R.D., & Co. Ltd.	184 Bond St. W., Oshawa
Garcy Company of Canada Ltd.	191 Niagara St., Toronto
Glen Electrical Mfg. Co.	8 Beaconsfield Ave. (rear), Toronto
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
Henderson Electric Co. Ltd.	927 Dupont St., Toronto
Holden Lighting Mfrs. Ltd.	15 Yorkville Ave., Toronto
Industrial Wire & Cable Ltd.	35 Golden Ave., Toronto
Kam-Lite Co. Ltd.	474 Bathurst St., Toronto
Kamro Lighting Products	R. R. No. 1, Weston
Kearney, James R., Corp. of Canada Ltd.	3 Crawford St., Guelph
Kondu Mfg. Co. Limited	South Street, Preston
Kruger Mfg. Company Ltd.	35 Carson St., Toronto
Landy, M.A., Co. Ltd.	47 Lucy Ave., Toronto
Line & Cable Accessories Ltd.	347 Sorauren Ave., Toronto
Markel Electric Products Ltd.	23 Lewis St., Fort Erie
Marr Electric Ltd.	160 Perth Ave., Toronto
Merit Fluorescent Co. Ltd.	369 Sorauren Ave., Toronto
Metal Industries Limited	24 Dunbar St., Hamilton
Milstark Ltd.	Stark Bldg., Ajax
Mitchell Mfg. Co. Ltd.	19 Waterman Ave., Toronto
Morganite Carbon Products, Canada, Ltd.	195 Eastern Ave., Toronto
Neosid (Canada) Ltd.	Vansco Rd., Toronto
Nichols, R. H., Ltd.	2781 Dufferin St., Toronto
Noma Lites Canada Ltd.	Second Ave. & 14th St., Owen Sound
Osborne Electric Co. Ltd.	95 Wesley St., Etobicoke
Pasteuray of Canada Ltd.	426 Cannon St. E., Hamilton
Phillips Electrical Co. (1953) Ltd.	Kingston Road, Brockville
Pierce Fuse Corporation Ltd.	143 Lavina St., Fort Erie
Pilot Mfg. Co.	530 Richmond St. W. (rear), Toronto
Powertronic Equipment Limited	50 Bermondsey Rd., Toronto
Rayo Electrical Products	65 Maticce Ave., Toronto
Regent Equipment Mfg. Co. Ltd.	455 King St. W., Toronto
S. & C. Electric Canada Ltd.	8 Vansco Rd., Toronto
Service Lamp Co. Ltd.	197 King St., London
Slater, N., Co. Ltd.	2 Sydney St., Hamilton
Smith, Lawrence F., & Sons	530 Richmond St. W. (rear), Toronto
Smith & Stone Limited	Georgetown
Sterne Equipment Co. Ltd.	152 Lappin Ave., Toronto
Swift Devices Limited	14 George St., Hamilton
Taylor Electric Mfg. Co. Ltd.	625 Princess Ave., London
Toronto Metal Spinning Ltd.	32 Eastern Ave., Toronto
Triangle Conduit & Cable (Canada) Ltd.	4006 Dundas St. W., Toronto
Triangle Conduit & Cable (Canada) Ltd.	Scarborough
Virden, John C., Limited	19 Curity Ave., Toronto

## Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1953 — Concluded

Name of firm	Location of plant
<b>(e) Miscellaneous Electrical Products — Concluded</b>	
Ontario — concluded:	
Vulcan Electric Products Ltd. ....	3180 Dundas St. W., Toronto
Wakefield Lighting Ltd. ....	395 Wellington St. S., London
Wakfer Electronics Co. Ltd. ....	35 Cameron St., Dundas
Waldman, Harvey, & Co. ....	52 Dickens Ave., Toronto
Walker Metal Products Ltd. ....	1500 Kildare Road, Walkerville
Wilson, J.A., Lighting & Display Ltd. ....	280 Lakeshore Rd., Toronto 14
Wynston, A.L., Jr., Ltd. ....	251 Spadina Ave., Toronto
Manitoba:	
Advance Lighting Co. ....	55 Myrtle St., Winnipeg
Caswell, W.A. ....	190 Chestnut St., Winnipeg
C.T. Electrical Controls & Subsidiary of Melco Electric Co. ....	11th St. & Queens Ave., Brandon
Globe Electric Mfg. Co. Ltd. ....	573 Main St., Winnipeg
Ideal Electric Mfg. Co. ....	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. ....	1465 Notre Dame Ave., Winnipeg
Alberta:	
Technical Enterprises ....	6328-104th St., Edmonton
British Columbia:	
Canada Wire & Cable Co. Ltd. ....	1494 Powell St., Vancouver
Canadian Lighting Products Co. ....	319 W. Pender St., Vancouver
Duck, John, & Son, Limited ....	1246 Hornby St., Vancouver
Electrical Industries Ltd. ....	550 Cambie St., Vancouver
Freeman, W., & Son ....	275 Woodland Drive, Vancouver
Lenkurt Electric Co. of Canada Ltd. ....	926 East Hastings St., Vancouver
Marine Electric Limited ....	137 W. 2nd St., North Vancouver
Rainbow Lighting Co. Ltd. ....	3715 Commercial Drive, Vancouver
Richmond Electric Co. Ltd. ....	2030 Alberta St., Vancouver
West Coast Electric Ltd. ....	1980 Cypress St., Vancouver
Western Lighting Fixture Co. Ltd. ....	246 West Second Ave., Vancouver

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