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THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY

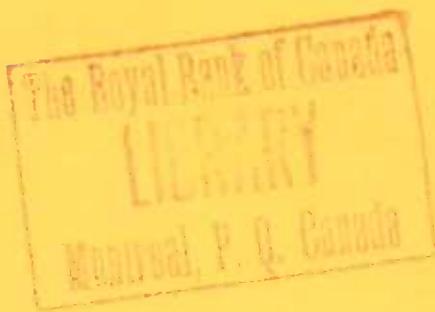
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DOMINION BUREAU OF STATISTICS

Industry and Merchandising Division

Metal and Chemical Products Section

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THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY

1954

Published by Authority of
The Right Honourable C. D. Howe, Minister of Trade and Commerce

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
- II—The Manufacturing Industries of Canada, (7 sections, as follows:)
 - Section A. Summary for Canada, 25¢
 - Section B. Atlantic Provinces, 25¢
 - Section C. Quebec, 25¢
 - Section D. Ontario, 25¢
 - Section E. Prairie Provinces, 25¢
 - Section F. British Columbia, 25¢
 - Section G. The Manufacturing Industries of Canada,
Regional Distribution, 75¢
- III—Foods and Beverages
- IV—Tobacco and Tobacco Products
- V—Rubber Products
- VI—Leather Products
- VII—Textile Mills
- VIII—Knitting Mills
- IX—Clothing
- X—Wood and Paper Products
- XI—Printing Trades
- XII—Iron and Steel Products
- XIII—Transportation Equipment
- XIV—Non-ferrous Metal Products
- XV—Electrical Apparatus and Supplies
- XVI—Non-metallic Mineral Products
- XVII—Products of Petroleum and Coal
- XVIII—Chemicals and Allied Products
- XIX—Miscellaneous Manufactures

This is the only report for Part XV, Electrical Apparatus and Supplies. It gives separately the principal statistics for the five subdivisions of this major group. It is punched to permit filing in a ring binder.

A—The Electrical Apparatus and Supplies Industry, 25¢

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THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY

1954

Factory shipments reported by firms in the Electrical Apparatus and Supplies Industry in 1954 were valued at \$863,942,144, an increase of 1.9 per cent over the 1953 total of \$848,190,254. The 457 firms which reported in this group in 1954 were distributed across Canada as follows: 1 in Nova Scotia; 92 in Quebec; 301 in Ontario; 19 in Manitoba; 1 in Saskatchewan; 6 in Alberta and 37 in British Columbia. These plants gave employment to a total of 75,075 workers who were paid \$258,509,601 in salaries and wages. Expenditures for materials amounted to \$396,583,427 and an additional \$7,423,726 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 manufacturers of non-metallic minerals; similarly, the makers of electric washing machines have been included in the Machinery Industry of the iron and steel group. Again, some electrical supplies were made as minor products of plants which were primarily engaged in other lines of business and, therefore, were included in other industries. The output of electrical apparatus in these other industries, including electrical accessories for automobile and household use, but excluding office and industrial machinery, amounted in value to about \$122,849,000 in 1954.

Statistics given in Tables 1 to 5 and 38 to 40 of this report cover only the concerns in the Electrical Apparatus and Supplies Industry. Tables 6 to 37 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 41 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.

Note: Figures for value added by manufacture shown in Table 1 prior to 1952 were obtained by subtracting the cost of materials used, including fuel and electricity, from the value of production. In 1952, the gross value of production was replaced by value of factory shipments, f.o.b. plant. As no information on inventory change is available for 1952 and 1953, value added figures for these years were obtained by subtracting from the value of shipments the cost of materials, fuel and electricity. In 1954, information on the value of year-end inventory holdings at plant and plant warehouses was collected as part of the annual Census of Industry and information thus made available was taken into account in calculating the value added figure for 1954.

ELECTRICAL APPARATUS AND SUPPLIES

TABLE 1. Principal Statistics of the Electrical Apparatus and Supplies Industry, Significant Years 1929-54, and by Provinces, 1953 and 1954

Year and province	Establishments	Employees	Earnings	Cost of fuel and electricity at works	Cost at works of materials used	Value added by manufacture ¹	Gross selling value of products ¹
	No.	No.	\$	\$	\$	\$	\$
1929	139	20,871	26,725,215	1,098,506	49,623,322	64,172,680	113,796,002
1933	174	11,767	12,428,430	851,575	14,504,269	22,508,240	37,012,509
1937	191	21,706	26,291,436	1,331,249	41,695,446	55,815,297	98,841,992
1939	190	20,261	25,711,092	1,266,471	39,331,766	48,462,341	89,060,578
1944	234	48,834	82,304,460	2,488,432	120,413,034	160,169,974	283,071,440
1946	266	43,998	74,510,479	2,667,477	101,939,272	129,965,904	234,572,653
1949	365	55,916	137,278,521	4,483,959	212,460,413	269,410,983	486,355,355
1950	382	60,262	155,334,065	5,136,183	260,306,027	315,136,176	580,578,386
1951	373	67,626	194,749,038	5,844,780	316,561,307	353,602,872	676,008,959
1952	401	69,200	217,564,936	6,226,367	313,713,170	395,933,805	715,873,342
1953							
Canada	422	76,856	250,646,777	6,956,744	383,743,994	457,489,516	848,190,254
Nova Scotia	1	20,596	68,444,155	1,619,574	92,905,653	108,739,481	203,264,708
Quebec	86	54,735	177,721,037	5,184,563	281,698,048	339,744,085	626,626,696
Ontario	274	832	2,266,920	81,753	4,332,918	4,648,226	9,062,897
Manitoba	19	50	120,844	8,395	302,947	261,017	572,359
Alberta	6	643	2,093,821	62,459	4,504,428	4,096,707	8,663,594
British Columbia	36						
1954							
Canada	457	75,075	258,509,601	7,423,726	396,583,427	462,960,141	863,942,144
Nova Scotia	1	20,569	72,174,511	1,725,612	90,527,895	121,235,429	207,832,600
Quebec	92	52,882	181,593,191	5,523,628	296,312,863	331,918,528	636,590,856
Ontario	301	919	2,446,749	84,470	4,451,645	4,941,834	9,447,946
Manitoba	19	64	172,738	10,072	500,184	465,579	977,755
Saskatchewan	1	641	2,122,412	79,944	4,790,840	4,398,771	9,092,987
Alberta	6						
British Columbia	37						

1. See footnote to text.

TABLE 2. Principal Statistics, by Sub-groups¹, 1953 and 1954

Group	Establishments	Employees	Earnings	Cost of fuel and electricity at works	Cost at works of materials used	Value added by manufacture ²	Value of factory shipments ²
	No.	No.	\$	\$	\$	\$	\$
1953							
Batteries	26	2,091	6,979,527	440,680	19,486,735	15,536,192	35,463,607
Heavy electrical machinery	55	25,454	88,359,663	1,974,108	87,704,273	154,594,631	244,273,012
Radios and radio parts	103	17,213	51,234,692	703,696	112,634,139	86,791,493	200,129,328
Refrigerators and appliances	87	9,427	29,496,808	1,237,274	54,597,677	58,758,075	114,593,026
Miscellaneous electrical products	151	22,671	74,576,087	2,600,986	109,321,170	141,809,125	253,731,281
Total	422	76,856	250,646,777	6,956,744	383,743,994	457,489,516	848,190,254
1954							
Batteries	31	2,122	7,256,190	419,830	19,582,999	14,713,016	35,302,822
Heavy electrical machinery	63	22,220	83,108,479	2,006,771	70,205,741	127,755,011	202,150,926
Radios and radio parts	120	18,020	56,392,238	945,091	124,696,952	104,044,924	228,511,630
Refrigerators and appliances	86	9,089	29,500,116	1,628,002	58,941,561	70,807,843	130,402,343
Miscellaneous electrical products	157	23,624	82,252,578	2,424,032	123,156,174	145,639,347	267,574,423
Total	457	75,075	258,509,601	7,423,726	396,583,427	462,960,141	863,942,144

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

2. See footnote to text.

TABLE 3. Inventories¹, 1954

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	\$	\$	\$	\$
(a) By sub-groups				
Opening:				
Batteries.....	2,544,422	1,522,175	3,088,397	7,154,994
Heavy electrical machinery and equipment	16,157,044	32,582,197	15,884,682	64,623,923
Radios and radio parts	18,449,062	19,557,095	14,211,999	52,218,156
Refrigerators, vacuum cleaners and appliances	12,322,722	9,264,996	16,492,125	38,079,843
Miscellaneous electrical products	31,975,340	9,719,989	25,217,382	66,912,711
Canada	81,448,590	72,646,452	74,894,585	228,989,627
Closing:				
Batteries	2,888,527	1,823,711	2,501,420	7,213,658
Heavy electrical machinery and equipment	15,204,467	25,049,844	13,701,279	53,955,590
Radios and radio parts	15,549,444	15,118,596	15,387,336	46,055,376
Refrigerators, vacuum cleaners and appliances	9,060,651	6,025,923	17,467,188	32,553,762
Miscellaneous electrical products	30,054,820	9,857,817	28,862,512	68,775,149
Canada	72,757,909	57,875,891	77,919,735	208,553,535
(b) By provinces				
Opening:				
Nova Scotia and Quebec	24,115,178	11,895,642	17,305,888	53,316,708
Ontario	55,561,606	59,853,197	56,635,501	172,050,304
Manitoba	845,915	505,014	448,021	1,798,950
Saskatchewan and Alberta	41,606	70,189	43,544	155,339
British Columbia	884,285	322,410	461,631	1,668,326
Canada	81,448,590	72,646,452	74,894,585	228,989,627
Closing:				
Nova Scotia and Quebec	22,869,583	9,294,433	22,962,224	55,126,240
Ontario	47,609,398	47,653,903	53,799,664	149,062,965
Manitoba	840,096	487,238	478,024	1,805,358
Saskatchewan and Alberta	115,527	92,909	41,624	250,060
British Columbia	1,323,305	347,408	638,199	2,308,912
Canada	72,757,909	57,875,891	77,919,735	208,553,535

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

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

TABLE 4. Products Made in the Electrical Apparatus and Supplies Industry, 1953 and 1954

Product	1953		1954	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
	No.	\$	No.	\$
Apparatus:				
Converter equipment (see Table 31)	—	3,315,130	—	2,364,348
Industrial control (see Table 24)	—	12,351,129	—	13,487,893
Generators and parts (see Table 6)	—	20,589,514	—	14,366,087
Motors (x) and parts (see Table 7)	—	41,427,273	—	35,670,977
Switchgear and protective equipment (x) (see Table 10)	—	40,852,030	—	41,466,715
Transformers and parts (x) (see Table 8)	—	59,143,212	—	49,256,868
Welding apparatus (x) (see Table 23)	—	6,544,890	—	5,530,657
Capacitors (x) (see Table 37)	1	1	—	5,189,324
Appliances:				
Cooking and heating equipment:				
Stoves, rangettes, cooking plates (x) (see Table 22)	—	15,096,662	—	13,808,285
Heating elements for stoves, etc. (x)	—	3,235,806	—	3,315,540
Air heaters, electric, portable type —with fan (x)	42,721	443,957	31,694	317,298
without fan (x)	52,491	963,012	50,233	741,104
Heating pads, electric (x) (see Table 35)	124,914	460,897	107,295	383,574
Water heaters, electric (x) (see Table 25)	210,902	1,244,364	—	1,139,815
Flat irons, electric (x) (see Table 17)	451,003	3,893,966	—	3,756,456
Toasters, electric (x) (see Table 18)	306,044	2,522,067	—	2,756,834
All other cooking and heating apparatus	—	3,626,826	—	4,328,627
Motor-driven equipment:				
Food mixers, electric (x) (see Table 35)	83,218	2,241,029	115,413	2,401,558
Vacuum cleaners and parts (x) (see Table 11)	—	7,905,946	—	7,217,634
Fans, A.C. and D.C.:				
Portable type (x)	114,176	1,192,271	119,078	1,261,499
All other types (x)	7,849	321,139	4,349	205,852
All other motor-driven appliances, including washing machines, air conditioners, etc.	—	15,069,411	—	14,742,319
Refrigeration equipment (x) (see Tables 26 and 27)	—	58,385,824	—	52,058,084
Batteries:				
Storage batteries (see Table 13)	—	19,896,710	—	21,366,340
Dry cell batteries (see Table 12)	—	7,770,113	—	7,827,077
Parts and supplies for batteries, and wet cell type batteries	—	1,993,143	—	1,602,320
Conduit and fittings (x) (see Table 9)	—	9,138,022	—	8,896,617
Cutouts and fuses (see Table 28)	—	2,945,037	—	3,076,614
Electro-therapeutic apparatus (X-ray machines, therapeutic lamps, etc.)	—	706,328	—	366,542
Electrical industrial heating equipment:				
Furnaces:				
Resistance type (x)	—	348,429	—	251,652
Other types (x)	—	—	—	—
Industrial ovens (x)	—	1,110,843	—	1,189,301
Other industrial heating equipment	—	—	—	—
Instruments and meters:				
Electrical indicating instruments (x)	—	977,826	—	438,083
Other electrical instruments and meters, including watt-hour meters and demand meters (x) (see Table 36)	—	8,393,058	—	8,854,114
Parts for instruments and meters	—	980,284	—	985,065
Lamps (bulbs):				
Incandescent (except therapeutic) (see Table 19)	—	16,444,410	—	16,594,682
Fluorescent (see Table 20)	4,882,012	3,598,998	4,203,105	3,109,279
Lighting fixtures (x) (see Table 29)	—	22,818,411	—	24,769,604
Line material, including pole line hardware (x) (see Table 32)	—	5,725,988	—	6,232,156

1. Not available separately.

TABLE 4. Products Made in the Electrical Apparatus and Supplies Industry, 1953 and 1954 — Concluded

Product	1953		1954	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
Radio apparatus and supplies:		No.	No.	\$
Radio receiving sets for civilian use (x) (see Table 14)	725,536	27,621,948	439,536	14,789,483
Record players — With amplifier	63,445	1,570,755	90,869	2,317,379
Without amplifier	12,037	524,825	24,681	621,926
Radio transmission equipment for civilian use (x)	—	6,285,090	—	5,217,754
Radio communication equipment for military purposes (x) (except radar)	—	20,746,454	—	31,198,472
Radar equipment (x)	—	31,441,992	—	28,781,456
Radio condensers	—	4,271,346	see "capacitors"	
Television equipment — Complete sets (see Table 15)	391,974	81,304,912	611,206	105,682,414
Other equipment	—	1,526,606	—	4,283,922
All other radio and electronic equipment, except tubes and transformers	—	14,588,566	—	24,636,883
Signal systems:				
Traffic	—	313,744	—	410,313
Fire alarm	—	637,097	—	788,489
Interior signal and clock systems, excluding telephone	—	1,003,426	—	1,194,900
Vacuum tubes (see Tables 16)	—	14,011,940	—	14,125,018
Wiring devices (x) (see Table 30)	—	14,672,439	—	12,193,599
Wires and cables (x) (see Table 21)	—	117,577,834	—	115,694,726
Miscellaneous:				
Fencers, electric (x)	12,787	109,181	13,544	126,955
Rectifiers, except power type	—	1,343,560	—	1,357,054
Telephone materials, including exchange switchboards, telephones, transmitters, etc.	—	43,352,382	—	53,291,829
All other products, not separately specified	—	52,206,067	—	59,899,011
Amount received for repair work	—	9,406,135	—	6,003,767
Total all products	—	848,190,254	—	863,942,144

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 37.

TABLE 5. Materials Used in the Electrical Apparatus and Supplies Industry, 1953 and 1954

Material	Unit of measure	1953		1954	
		Quantity	Cost at works	Quantity	Cost at works
		\$	\$		
Aluminum:					
Casting	lb.	3,358,047	2,400,530	4,103,949	2,029,695
Ingots	"	1,832,671	422,868	1,801,607	395,236
Rods and bars	"	5,798,527	1,391,383	12,550,438	3,074,272
Scrap	—	—	12,353	—	6,729
Sheets	lb.	2,464,880	1,040,853	2,727,985	1,160,953
Other	—	—	1,467,384	—	2,177,638
Ammonium chloride (sal ammoniac)	lb.	1,914,833	125,670	1,889,228	118,177
Antimony	"	46,315	11,497	1,109	588
Argon	cu. ft.	695,987	85,474	569,184	69,586

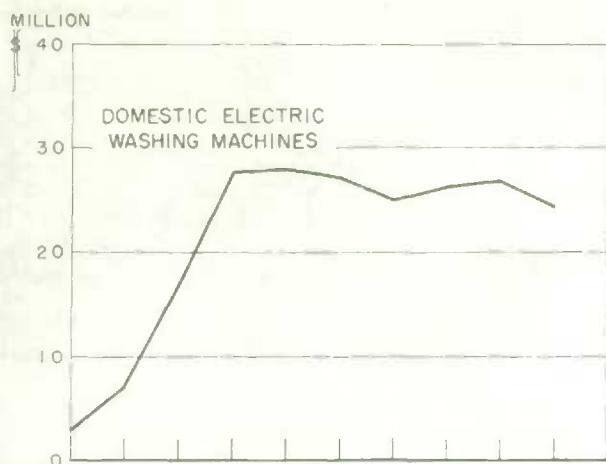
ELECTRICAL APPARATUS AND SUPPLIES

TABLE 5. Materials Used in the Electrical Apparatus and Supplies Industry,
1953 and 1954 - Continued

Material	Unit of measure	1953		1954	
		Quantity	Cost at works	Quantity	Cost at works
Battery boxes and containers.....	-	-	\$ 2,707,916	-	\$ 3,435,886
Brass and bronze:					
Castings	lb.	1,423,537	933,550	1,251,543	836,957
Ingots	"	1,373,178	436,350	1,109,371	326,009
Rods and bars	"	4,244,850	1,721,969	2,738,639	1,200,768
Tubing and pipe	"	356,245	267,635	272,210	185,083
Sheets and plates	"	6,681,941	2,649,157	5,380,950	2,157,433
Scrap	"	82,824	17,381	179,865	36,471
Other	-	-	2,939,271	-	2,094,626
Carbon plates, blanks, etc.		-	369,690	-	358,654
Carbon brushes		-	122,723	-	128,702
Carbon electrodes		-	150,321	-	165,221
Chalk or whiting.....	lb.	928,600	13,286	923,434	15,437
China clay (kaolin)	ton	2,192	75,038	2,629	83,000
Copper:					
Castings	lb.	613,871	178,785	1,358,983	396,129
Ingots, slabs, wire bars, etc.	"	907,340	379,223	636,787	294,420
Rods	"	121,471,270	38,125,008	117,731,246	38,226,186
Scrap	"	38,059	11,723	48,791	12,213
Sheets and plates	"	1,513,677	677,261	1,346,325	616,170
Tubing and pipe	"	1,639,876	1,047,662	1,942,395	1,145,209
Wire, bare	"	3,263,439	1,627,830	2,989,215	1,444,080
Wire, enamelled	"	8,090,184	4,006,886	8,080,369	4,406,551
Wire, other insulated	-	-	8,357,646	-	9,084,863
Other	-	-	789,037	-	1,197,883
Cotton and linen sheets, tapes, etc.		-	2,981,700	-	2,865,342
Glass bulbs, tubing and cane		-	3,218,521	-	3,111,352
Insulating varnishes and japans		-	1,068,479	-	946,317
Insulating waxes		-	445,622	-	387,313
Insulators, porcelain		-	1,976,648	-	1,816,762
Iron and steel (except alloy):					
Pig iron	net ton	6,182	374,425	3,612	195,851
Steel bars and rods	" "	15,223	2,939,443	14,198	2,562,430
Steel strips	" "	10,071	2,084,534	8,194	1,694,261
Steel sheets	" "	86,229	13,259,843	69,941	10,461,627
Steel wire	" "	14,582	2,708,804	16,670	2,487,330
Structural steel	" "	8,172	1,245,526	7,557	1,161,027
Scrap iron and steel	" "	3,947	160,873	2,761	67,710
Other iron and steel	-	-	9,486,555	-	10,001,904
Alloy steel:					
Carbon and alloy tool steel, including high-speed	-	-	201,725	-	279,682
Stainless	-	-	1,012,880	-	895,755
Silicon sheets and strips	net ton	28,266	8,642,437	21,454	6,505,664
Other alloy steel	-	-	389,240	-	308,814

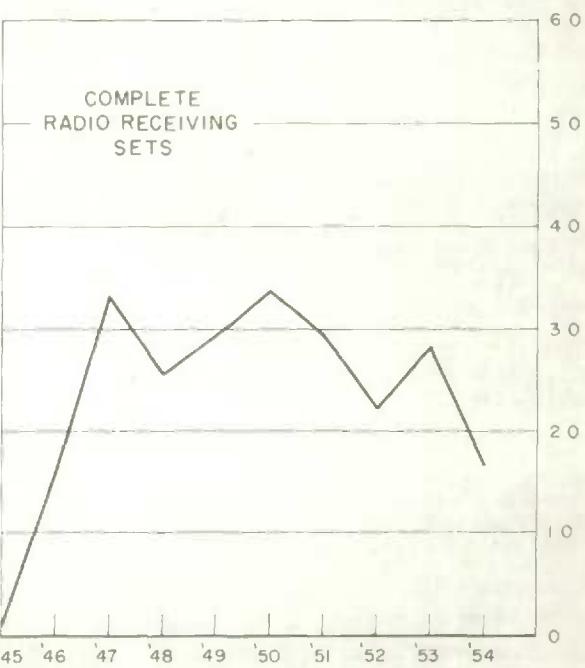
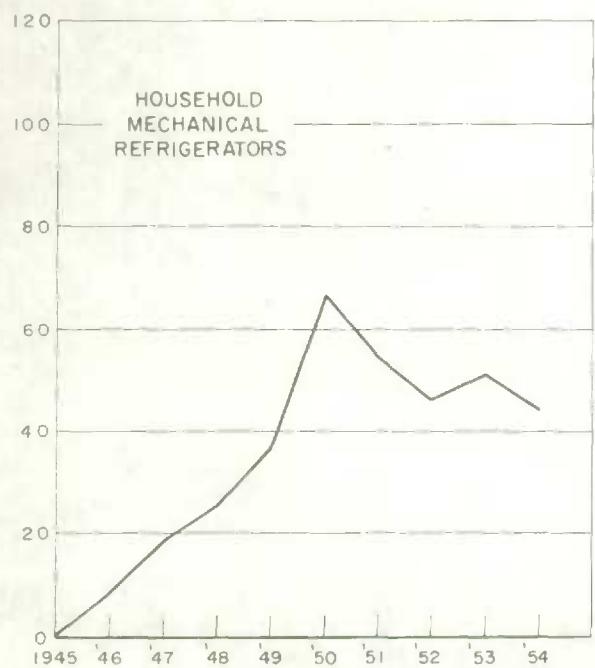
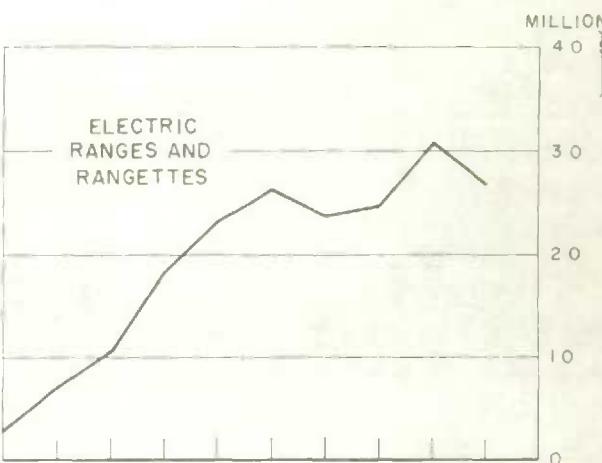
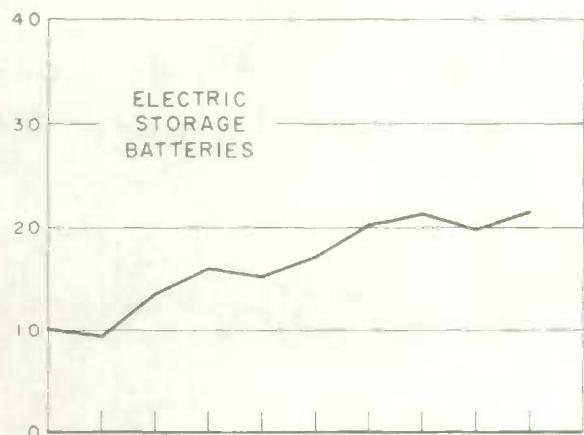
TABLE 5. Materials Used in the Electrical Apparatus and Supplies Industry,
1953 and 1954 — Concluded

Material	Unit of measure	1953		1954	
		Quantity	Cost at works	Quantity	Cost at works
		\$		\$	
Lead:					
Pig (pure)	lb.	47,620,190	6,015,029	52,005,354	6,653,436
Antimonial	"	30,377,616	4,320,451	30,966,077	4,361,319
Scrap	"	98,522	8,082	79,081	6,725
Other	"	—	172,481	—	82,227
Lead oxide (litharge and red lead)	lb.	5,668,268	884,691	8,669,201	1,335,941
Lumber	M bd. ft.	14,965	2,054,345	14,351	1,589,251
Magnesium	lb.	9,308	7,389	21,124	21,201
Manganese dioxide	"	6,263,958	279,006	6,053,632	330,074
Mercury	"	11,598	25,490	6,383	17,769
Mica	"	498,433	927,107	473,352	697,876
Nickel-silver, all forms	—	—	291,144	—	270,555
Nitrogen	cu. ft.	3,397,433	46,073	4,042,277	60,045
Oil:					
Transformer	Imp. gal.	2,681,553	1,073,864	2,537,596	806,403
Switch	"	85,441	38,001	36,861	17,259
Paints, stains, lacquers, etc.	—	—	2,591,354	—	2,406,645
Radio and television cabinets	—	—	16,833,180	—	13,817,307
Radio and television parts for assembling	—	—	40,264,903	—	45,087,756
Radio and television tubes purchased and used to equip radio and television receiving sets made by manufacturer in own plant	No.	12,811,109	16,725,013	13,297,265	22,972,963
Refrigerator cabinets	—	—	344,177	—	430,693
Rubber:					
Crude	lb.	829,929	245,102	583,650	144,192
Other	—	—	1,633,668	—	1,394,504
Resistance wire	—	—	839,611	—	647,362
Silk, artificial	lb.	536,580	509,625	465,468	462,094
Silver	troy oz.	55,540	60,865	79,409	86,140
Steel tanks	—	—	1,417,471	—	1,226,520
Sulphuric acid, 100%	lb.	11,335,581	208,748	11,976,799	217,283
Talc	"	980,386	15,346	1,195,613	19,237
Tin	"	237,130	229,053	227,736	217,795
Tungsten wire	—	—	413,816	—	479,156
Wood battery separators	—	—	999,760	—	1,003,884
Zinc:					
Ingots and bars	lb.	4,335,028	507,294	4,303,599	468,682
Sheets and strip	"	1,339,875	265,674	1,061,596	187,408
Other	—	—	965,879	—	833,595
Zinc chloride	lb.	993,485	68,074	942,852	71,043
Electric motors, purchased	—	—	1,788,763	—	1,804,632
All other materials	—	—	146,861,825	—	156,746,982
Containers and packing material	—	—	7,051,025	—	6,975,507
Total materials	—	—	383,743,994	—	396,583,427



PRODUCTION*
IN
CANADA
FROM
ALL INDUSTRIES
OF
SPECIFIED ELECTRICAL
PRODUCTS

1945 — 1954



* PRODUCTION = SELLING VALUE AT WORKS

TABLE 6. Factory Shipments¹ of Electric Generators and Parts, 1953 and 1954

	Number	Total rating	Selling value at works
			\$
1953			
A.C., 1000 k.v.a. and under:			
500 r.p.m. and above	141	28,384 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
Total	—	—	20,589,514
1954			
A.C., 1000 k.v.a. and under:			
500 r.p.m. and above	106	16,948 k.v.a.	591,735
Under 500 r.p.m.	5	4,275 k.v.a.	53,000
A.C., 1001 k.v.a. and above, all speeds.....	36	801,119 k.v.a.	13,032,099
D.C. and including exciters:			
½ k.w. and ¾ k.w.	20	11 k.w.	1,800
1 k.w. to 1000 k.w.	337	5,045 k.w.	479,386
1001 k.w. and over	—	—	208,067
Accessories and parts for generators	—	—	—
Total	—	—	14,366,087

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

TABLE 7. Factory Shipments of Electric Motors and Parts, 1953 and 1954 (From All Industries)

	Number	Total rating	Selling value at works
	H.P.		\$
1953			
Single phase, induction:			
½ h.p. and under ¹	862,432	222,420	13,798,417
½ h.p. and ¾ 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:			
½ h.p. and under ¹	6,455	1,604	191,399
½ h.p. and ¾ 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.:			
½ h.p. and under ¹	475,848	10,972	1,422,556
½ h.p. and ¾ 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	—	—	—
Total	—	—	46,714,789

1. Does not include shaded pole or universal motors.

TABLE 7. Factory Shipments of Electric Motors and Parts, 1953 and 1954. (From All Industries) — Concluded

	Number	Total rating	Selling value at works
		H.P.	\$
1954			
Single phase, induction:			
$\frac{1}{2}$ h.p. and under ¹	746,106	179,951	11,113,086
$\frac{1}{2}$ h.p. and $\frac{3}{4}$ h.p.	50,541	29,374	1,900,912
1 h.p. to 5 h.p., inclusive	14,432	25,950	1,326,210
Polyphase, induction:			
$\frac{1}{2}$ h.p. and under ¹	5,305	1,444	155,819
$\frac{1}{2}$ h.p. and $\frac{3}{4}$ h.p.	10,148	6,247	410,237
1 h.p. to 5 h.p., inclusive	36,254	88,435	3,094,399
D.C.:			
$\frac{1}{2}$ h.p. and under ¹	—	—	881,076
$\frac{1}{2}$ h.p. and $\frac{3}{4}$ h.p.	146	97	14,275
1 h.p. to 5 h.p., inclusive	532	1,061	312,445
Polyphase, induction:			
6 h.p. to 25 h.p., inclusive	11,959	150,162	2,493,595
26 h.p. to 100 h.p., inclusive	2,835	153,765	2,242,265
101 h.p. to 200 h.p., inclusive	485	73,665	1,096,437
201 h.p. and over	236	155,986	2,552,092
D.C.:			
6 h.p. to 25 h.p., inclusive	291	4,040	298,319
26 h.p. to 100 h.p., inclusive	142	7,165	570,258
101 h.p. to 200 h.p., inclusive			
201 h.p. and over	856	285,726	4,157,092
Railway and vehicle motors, A.C. and D.C.			
Shaded pole type motors, all ratings			
Universal type motors, all ratings	238,744	—	1,062,477
Synchronous motors and condensers:			
1000 h.p. or k.v.a. and under	177	40,883 k.v.a.	1,252,517
1001 h.p. or k.v.a. and over	19	120,340 k.v.a.	1,504,963
Sets of rotors and stators for hermetically-sealed refrigeration units, all ratings			
Accessories and parts for motors			
Total			39,860,515

1. Does not include shaded pole or universal motors.

TABLE 8. Factory Shipments of Transformers, by Types, 1953 and 1954

Type	1953			1954		
	Number	Total rating	Selling value at works	Number	Total rating	Selling value at works
Distribution transformers, 200 k.v.a. and under and 15,000 volts and below, except dry type		k.v.a.	\$		k.v.a.	\$
transformers 2 k.v.a. and below ²	65,575	1,047,182	16,624,623	62,313	1,104,116	15,460,338
Power transformers, 201 k.v.a. to and including 7,500 k.v.a. and 15,000 volts to and including 132,000 volts ²	1,413	1,825,803	12,237,190	1,111	2,107,007	9,865,536
Power transformers, over 7,500 k.v.a. or over 132,000 volts ²	148	4,202,202	15,681,506	92	2,456,938	8,990,503
Feeder regulators — induction type	54	6,728	358,221			
— step voltage type	54	—	967,549	118	—	992,177
Current transformers	16,187	—	899,474	19,313	—	799,849
Potential transformers	3,245	—	501,830	3,107	—	509,438
Constant current transformers (street lighting)	1	1	1	1	1	1
Series lamp transformers	1	1	1	2,289	—	93,862
Luminous tube transformers	28,896	—	382,169	36,776	—	522,725
Ignition transformers (oil and gas)	133,690	—	1,301,952	167,360	—	1,393,286

1. Included with "All other transformers".

2. Figures for 1953 represent revisions of those shown in 1953 bulletin for these categories.

TABLE 8. Factory Shipments of Transformers, by Types, 1953 and 1954 — Concluded

Type	1953			1954		
	Number	Total rating	Selling value at works	Number	Total rating	Selling value at works
Radio and TV transformers — Air core.....		k.v.a.	\$	348,243	—	433,675
— Powdered iron and therite core.....	2,118,929	—	3,329,046	780,533	—	463,632
— Laminated core ..				1,580,108	—	2,153,157
Electronic transformers (other than radio and TV)	1	—	—	161,412	—	1,195,221
Fluorescent transformers and ballasts.....	725,596	—	3,611,177	766,514	—	3,455,425
Mercury lamp transformers	1	—	—	—	—	—
Bell ringing and chime transformers.....	66,053	—	104,156	60,679	—	93,466
Control and signalling transformers	1	—	—	1	—	—
General purpose dry type transformers, up to and including 2 k.v.a.....	1	—	—	43,906	—	353,796
All other transformers.....	—	—	2,118,562	—	—	1,681,469
Parts and supplies for transformers	—	—	1,025,757	—	—	1,157,037
Total	—	—	59,143,212	—	—	49,614,592

1. Included with "All other transformers".

2. Figures for 1953 represent revisions of those shown in 1953 bulletin for these categories.

TABLE 9. Factory Shipments of Conduit¹ for Electrical Wiring, 1953 and 1954

Item	Unit of measure	1953		1954	
		Quantity	Selling value at works	Quantity	Selling value at works
Rigid conduit:			\$		\$
Steel and non-ferrous	lb.	36,945,705	5,281,188	37,723,672	5,598,272
Electrical metallic tubing, steel and non-ferrous ..	lb.	2,778,000	806,417	5,192,500	1,351,014
Flexible conduit (steel and non-metallic).....	ft.	2,388,491	186,355	2,363,752	192,899
Total		—	6,273,960	—	7,142,185

1. Does not include non-ferrous type in 1953.

TABLE 10. Factory Shipments of Electrical Switch Gear and Protective Equipment
(Except telephone switchboards), 1953 and 1954

Item	Selling value at works
1953	\$
Switchboard panels and equipment.....	15,148,264
Panel boards and cabinets	5,563,454
Lightning arresters, other than radio:	
15,000 volts and under.....	376,313
Over 15,000 volts	269,536
Power circuit-breakers.....	6,882,732
Low-voltage air circuit-breakers	2,376,880
Disconnecting switches:	
Up to and including 15,000 volts	880,042
Over 15,000 volts	669,075
Switches, enclosed safety type	3,891,880
Generator voltage regulators and accessories	15,727
Current limiting apparatus	226,180
Relays	553,123
Parts and supplies for above	1,141,665
Other protective equipment	3,244,159
Total	41,239,030

ELECTRICAL APPARATUS AND SUPPLIES

**TABLE 10. Factory Shipments of Electrical Switch Gear and Protective Equipment
(Except telephone switchboards), 1953 and 1954 — Concluded**

Item	Selling value at works
1954	\$
Switchgear assemblies.....	11,394,683
Low voltage switchboards (fused or circuit breaker types)	3,016,112
Distribution, lighting and residential panelboards (fused or circuit breaker types).....	3,878,549
Industrial and residential enclosed safety switches and circuit breakers.....	4,516,528
Miscellaneous cabinets, wireways, gutters, surface raceways (excluding conduit and metallic tubing) and bus ducts including feeder, plug and trolley types.....	3,372,789
Lightning arresters, other than radio, 15,000 volts and under.....	396,773
Lightning arresters, over 15,000 volts	316,296
Power circuit breakers.....	5,439,646
Low voltage air circuit breakers (except moulded case breakers)	1,187,200
Disconnecting switches.....	2,762,509
Other switchgear and protective equipment	5,596,002
Total	41,877,087

TABLE 11. Production² of Electric Vacuum Cleaners and Parts, 1946-1954 (From All Industries)

Year	Floor models		Cylinder models		Hand models		Attachments and parts		Total	
	Number	Value	Number	Value	Number	Value	Number	Value	Number	Value
		\$		\$		\$		\$		\$
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 ¹	—	8,111,944
1950	43,075	2,337,136	109,395	5,161,920	for publication		—	1,271,363 ¹	—	8,770,419
1951	39,170	2,121,966	90,837	5,587,627	5,145	93,420	—	1,114,719	—	8,917,732
1952	41,323	2,380,470	85,587	5,059,012	2,828	59,618	—	1,156,332	—	8,655,432
1953	37,126	2,239,354	70,833	4,334,187	7,705	137,497	—	1,211,414	—	7,922,452
1954	22,801	1,523,306	88,381	4,752,451	5,435	119,772	—	967,785	—	7,363,314

1. Includes hand models.

2. Factory shipments since 1952.

TABLE 12. Factory Shipments of Dry Cell Batteries, 1953 and 1954

Type	Unit of measure	Quantity	Selling value at works
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
Dry cell:			
6-inch batteries	No. of cells	1,999,714	995,352
Radio batteries for portable sets	" "	27,913,842	1,160,002
Radio batteries for non-portable sets	" "	32,074,756	2,817,950
Flashlight batteries	" "	24,835,404	2,342,411
Hearing-aid batteries:			
"A" batteries	No. of cells		
"B" batteries	" "		511,362
All other dry batteries	" "		
Total			7,827,077

TABLE 13. Factory Shipments of Electric Storage Batteries, by Types, 1953 and 1954

Type	1953		1954	
	Number	Selling value at works	Number	Selling value at works
For internal combustion engine starting and ignition	1,769,708	\$ 16,641,612	1,790,756	\$ 16,805,610
For farm lighting plants (cells)	29,331	310,153	22,582	238,939
For railway service (cells)	17,388	697,557	29,441	1,294,081
For direct motive power (industrial trucks, mine locomotives, etc.)	2,847	1,440,212	2,460	1,434,969
For all other purposes	—	807,176	—	1,592,741
Total	—	19,896,710	—	21,366,340

TABLE 14. Production¹ of Complete Radio Receiving Sets, 1945-1954

Year	Number of sets	Selling value at works	Year	Number of sets	Selling value at works
		\$			\$
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
1949	791,051	29,411,911	1954	487,620	16,509,275

1. Factory shipments since 1952.

TABLE 15. Production¹ of Television Sets, 1948-1954

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
1954	611,206	105,682,414

1. Factory shipments since 1952.

TABLE 16. Production² of Radio and Television Receiving Tubes¹, 1945-1954

Year	Number	Selling value at works	Year	Number	Selling value at works
		\$			\$
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
1949	4,682,943	2,787,421	1954	11,368,561	6,608,481

1. Does not include television picture tubes.

2. Factory shipments since 1952.

ELECTRICAL APPARATUS AND SUPPLIES

TABLE 17. Production¹ of Flat Irons, 1945-1954

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
		\$		\$		\$		\$
1945			52,268	237,420	126,991	357,717	179,259	595,137
1946		Not available according to this breakdown	208,476	1,273,007	293,247	875,595	501,723	2,148,602
1947			222,304	1,526,635	218,234	750,553	440,538	2,277,188
1948			233,437	2,224,472	138,213	425,610	371,650	2,650,082
1949			322,060	2,245,242	145,186	401,715	467,246	2,646,957
1950			387,657	2,815,299	130,257	391,252	517,914	3,206,551
1951	108,824	1,167,633	235,885	1,583,904	108,511	347,844	453,220	3,099,381
1952	107,181	1,135,245	234,535	1,494,987	92,029	286,489	433,745	2,916,721
1953	160,478	1,666,554	252,306	2,350,136	69,444	217,026	482,228	4,233,716
1954	234,624	2,509,362	207,620	1,410,704	54,724	168,614	496,968	4,088,680

1. Factory shipments since 1952.

TABLE 18. Production³ of Electric Toasters, 1947-1954

Year	Domestic, automatic		Domestic, non-automatic		Domestic sandwich ¹		Other ²		Total	
	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works
		\$		\$		\$		\$		\$
1947	1,183	17,816	275,467	1,011,548	35,014	174,265	1,023	13,886	312,687	1,217,515
1948	22,918	224,392	189,839	1,070,654	47,763	276,377	5,581	25,184	266,101	1,596,607
1949	53,885	756,764	261,928	1,182,910	67,263	447,593	1,021	29,048	384,097	2,416,315
1950	52,424	686,852	228,021	869,703	46,225	267,508	258	10,605	326,928	1,834,668
1951	39,031	591,031	168,576	716,763	33,667	197,860	793	42,724	242,067	1,548,378
1952	26,718	476,225	127,617	462,441	41,473	241,606	2,392	77,137	198,200	1,257,409
1953	134,146	1,903,442	114,775	328,225	54,477	274,388	2,646	16,012	306,044	2,522,067
1954	159,878	2,259,324	110,455	301,333	38,623	183,271	275	12,906	309,231	2,756,834

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

2. Includes commercial type.

3. Factory shipments since 1952.

TABLE 19. Production³ of Incandescent Electric Lamps (Bulbs), 1945-1954

Year	Standard size		Miniature size ¹		Photo flash ²	
	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works
		\$		\$		\$
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	32,418,428	2,512,041		
1951	60,499,640	9,715,612	33,506,684	2,461,287		
1952	65,978,887	10,963,303	21,657,619	1,967,531	9,228,384	1,067,828
1953	77,421,515	12,217,077	30,885,185	2,668,048	15,071,759	1,559,285
1954	76,193,807	12,088,636	31,422,200	2,591,966	20,057,249	1,914,080

1. All types, including Christmas tree, flashlight, automobile, etc.

2. Not available separately prior to 1952.

3. Factory shipments since 1952.

TABLE 20. Production¹ of Fluorescent Electric Lamps (Bulbs), 1945-1954

Year	Number	Selling value at works
		\$
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, 481	3, 383, 134
1950	5, 138, 552	4, 110, 949
1951	5, 262, 530	3, 252, 267
1952	4, 098, 522	2, 817, 174
1953	4, 882, 012	3, 598, 998
1954	4, 203, 105	3, 109, 279

1. Factory shipments since 1952.

TABLE 21. Factory Shipments of Electrical Wires and Cables, 1953 and 1954 (From All Industries)

Item	Value of factory shipments	
	1953	1954
	\$	\$
Un-insulated conductors:		
Copper, copperweld, including trolley wire	11, 332, 489	8, 825, 387
Copperweld copper composite conductors and C.C.S.R.	546, 303	558, 902
Aluminum and A.C.S.R. conductors and aluminum alloys	8, 619, 592	11, 855, 063
Brass and bronze wires and cables	707, 231	628, 715
Galvanized steel conductors	358, 287	548, 093
Weatherproof wires (all types)	10, 793, 717	9, 597, 250
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.)	13, 296, 626	13, 821, 089
Cambric-insulated and braided (all types where V.C. is used as the insulant)	1, 085, 844	723, 340
Thermo-plastic wire and cables (all types except telephone wires and cables)	9, 465, 587	8, 229, 146
Rubber-insulated leaded power cable (including armoured cable of this type and L.C. control cable)	2, 692, 083	1, 561, 478
Cambric-insulated leader power cable (including armoured cable of this type)	979, 392	732, 133
Paper-insulated leaded power cable (including armoured cable of this type)	5, 697, 563	7, 228, 906
Rubber-insulated telephone wires (including PVC) (drop, duct, inside, station, bridle, etc.)	3, 847, 359	4, 371, 377
Paper-insulated telephone cable (including armoured cable of this type)	14, 235, 953	16, 049, 904
Flexible cords (except telephone and switchboard), including jacketed types	4, 427, 237	3, 531, 682
Flexible armoured cable (AC and ACL)	4, 918, 282	4, 825, 847
Signal and control cable, non-leaded	1, 584, 582	1, 131, 872
Non-metallic sheathed cables	7, 773, 975	7, 074, 314
Magnet wires:		
Enamelled	9, 098, 578	8, 320, 449
All others	3, 988, 952	3, 394, 864
Asbestos-insulated (all types)	1, 962, 967	2, 361, 522
Cord assemblies	2, 103, 892	1, 940, 304
All other types of wire and cable	3, 924, 292	5, 617, 123
Total	123, 440, 783	122, 928, 760

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TABLE 22. Factory Shipments of Stoves Made in Canada, 1952-1954
(Data Assembled From All Industries)

		1952	1953	1954
Coal, wood and sawdust-burning cooking stoves and ranges, including ranges with gas or electric extension	No. \$	56,847 5,661,110	43,870 4,466,853	30,364 3,062,377
Coal, wood and sawdust-burning heating stoves and space-heaters, including all heaters, circulators, Quebec, box, oak, Franklin, globular and laundry	No. \$	71,220 1,126,309	54,518 894,011	44,739 771,118
Solid fuel and gas combination or oil and gas combination (not including stoves or ranges with gas extension)	No. \$	13,374 1,979,968	13,234 1,854,891	9,514 1,711,801
Solid fuel and electric combination or oil and electric combination (not including stoves or ranges with electric extension)	No. \$	8,273 1,632,600	8,939 1,600,534	8,275 1,833,984
Gas cooking stoves and ranges (not combinations), including all styles with ovens	No. \$	38,394 4,068,825	31,810 3,696,607	27,848 3,109,619
Gas heating stoves and space-heaters	No. \$	11,203 340,262	9,253 293,893	5,961 167,197
Gas cooking plates — no oven	No. \$	869 7,432	1,592 18,229	2,057 32,990
Electric cooking stoves or ranges (over 35 amperes), all styles with ovens	No. \$	143,160 22,032,038	171,776 27,819,362	167,716 25,340,646
Electric rangettes, including cord attachment and oven as one unit	No. \$	46,903 1,706,429	51,828 1,873,194	42,078 1,501,587
Electric cooking plates and grills, including stoves for glass coffee-makers	No. \$	218,637 1,054,580	249,208 1,058,949	173,954 975,556
Oil (kerosene) and gasoline cooking stoves and ranges	No. \$	37,892 385,267	36,862 359,028	41,644 435,723
Oil (kerosene) and gasoline heating stoves and space-heaters	No. \$	4,047 168,682	2,156 31,375	1,874 28,545
Fuel oil (distillate) cooking stoves and ranges	No. \$	13,893 907,676	11,534 1,083,289	7,380 1,141,746
Fuel oil (distillate) heating stoves and space-heaters	No. \$	58,475 3,083,818	53,996 2,863,404	49,542 2,436,841
Total	\$	44,154,996	47,913,619	42,549,729

TABLE 23. Production of Electric Welding Apparatus and Welding Rod¹, 1945-54

Year	Welding apparatus		Welding rod ²	
	Electric arc welding equipment with controls	Other electric welding apparatus ³	Quantity	Value of sales
				\$
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
1954	1,213,051	1,530,201	11,926	3,634,811

1. Includes both gas and electric welding rod of ferrous type. Complete data on non-ferrous types not available.
 2. Factory sales.
 3. Includes "Resistance welding equipment with controls".

TABLE 24. Factory Shipments of Industrial Control Equipment, 1953 and 1954

Item	Value of factory shipments	
	1953	1954
Traction control — railway and mine locomotive, trolley coach, street car and self-propelled battery-operated lift trucks	650,000	503,700
A.C. full voltage manual starters for use with single and polyphase motors.....	956,359	1,097,243
(a) A.C. full voltage magnetic starters (single-speed) 600 volt maximum	1,767,938	3,111,551
(a) A.C. magnetic contactors and relays	409,542	548,532
(a) A.C. reduced voltage starters, manual and magnetic, for use with squirrel cage induction motors, 600 volt maximum	861,638	290,596
(a) A.C. low voltage control centres (factory assembled groups of combination magnetic switches)	1,094,904	1,918,294
(a) Synchronous motor starters	397,882	470,273
A.C. magnetic starters and panels (exclusive of types covered by items marked (a)).....	2,214,377	1,436,334
A.C. and D.C. drum switches and dial starters; and resistors for use with drum switches	388,698	277,535
D.C. magnetic starters, contactors, relays and panels	782,275	834,442
A.C. and D.C. brakes	261,373	136,864
Accessories (pushbuttons, limit switches, etc.)	799,958	792,756
Industrial electronic control (relays, photo-electric timing, capacitance, etc.; and electronic control panels for industrial applications	412,060	357,409
All other industrial control, including repair parts	1,354,125	1,712,364
Total	12,351,129	13,487,893

TABLE 25. Factory Shipments of Domestic Water-Tank Heaters, 1953 and 1954 (From all Industries)

	1953		1954	
	Number	Value of factory shipments	Number	Value of factory shipments
		\$		\$
Cast iron, for coal, wood or oil (120 gallons or less).	1,507	68,853	414	13,170
Gas, automatic.....	25,341	1,810,833	26,642	1,906,338
Gas, not automatic	14,496	190,662	9,986	130,708
Electric, circulating type	42,819	351,608	34,284	279,229
Electric, immersion type	133,216	378,821	134,456	381,111
Clamp-on type	36,549	161,337	27,735	124,700
Electric, automatic storage tank type, including tank and controls.....	35,824	2,644,329	41,768	2,923,792
Total.....	289,752	5,606,443	275,285	5,759,048

TABLE 26. Production² of Household Mechanical Refrigerators¹, 1945-54

Year	Number	Selling value at works
		\$
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
1954.....	229,945	44,033,304

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

2. Factory shipments since 1952.

TABLE 27. Factory Shipments of Refrigeration Equipment, 1953 and 1954 (From All Industries)

Type	1953		1954	
	Number	Selling value at works	Number	Selling value at works
		\$		\$
Household refrigerators:				
Household mechanical refrigerators, complete units (electric and gas), all sizes.....	275,415	50,943,211	229,945	44,033,304
Household ice refrigerators — Metal	1,329	27,658	50	5,000
— Wood.....	—	—	—	—
Steel cabinets for mechanical refrigerators	10,944	601,891	3,837	169,458
Self-contained units:				
Milk coolers, all sizes.....	969	262,232	1,080	233,275
Ice-cream cabinets, all sizes	5,089	1,794,055	5,447	2,044,804
Beverage coolers, all sizes	5,256	972,711	8,253	2,297,192
Water-coolers, all sizes.....	10	38,234	—	62,177
Freezers — Frosted food cabinets	828	571,306	446	360,118
— Home freezers, all sizes.....	7,456	2,133,304	8,159	2,172,818
Fixtures:				
Display cases, normal temperature	2,260	1,490,029	2,348	1,732,552
Low-temperature refrigerators.....	174	117,257	490	471,999
Reach-in refrigerators (remote only)	839	433,810	522	249,066
Sectional walk-in coolers, all types	410	381,196	465	422,924
Self-contained commercial refrigerator products:				
Display cases, all sizes	649	387,143	977	455,220
Reach-ins, all sizes.....	833	288,577	1,254	399,458
Evaporators:				
Unit cooler type, all sizes	3,187	485,238	3,135	391,560
Fin coils, all sizes	9,114	717,126	8,160	448,404
Ice-makers — Domestic	19,670	318,523	—	254,001
— All other sizes	—	117,329	—	—
Compressors and condensing units:				
Domestic, for assembly in individual household cabinets	80,862	4,308,395	28,265	2,208,793
Commercial — Low pressure	5,768	1,570,828	6,064	1,521,406
— Ammonia	21	76,135	20	85,800
Evaporative condensers:				
Low pressure.....	3,461	141,153	1,708	137,729
Ammonia.....	18	53,973	36	68,815
All other refrigeration equipment	—	7,550,149	—	7,396,390
Total.....	—	75,781,463	—	67,622,263

TABLE 28. Factory Shipments of Cutouts and Fuses, 1953 and 1954

Type	Selling value at works	
	1953	1954
Primary cutouts:	\$	\$
15,000 volts and less, except oil type	995,965	1,035,338
Over 15,000 volts, except oil type	122,515	24,576
Oil type		
Individual cutouts for cartridge and plug fuses	210,430	326,247
Cartridge fuses	669,468	495,232
Plug fuses	737,103	547,175
All other fuses	209,556	461,475
Renewal elements for fuses		186,571
Total	2,945,037	3,076,614

TABLE 29. Factory Shipments of Electric Lighting Fixtures, 1953 and 1954 (From all Industries)

Type	Selling value at works	
	1953	1954
Residential:	\$	\$
Incandescent	2,983,119	3,422,254
Fluorescent	2,152,392	950,540
Commercial and industrial:		
Incandescent	3,249,467	2,562,704
Fluorescent	9,290,300	12,505,846
Street-lighting	1,650,938	2,166,244
Searchlights and floodlights	758,868	592,176
Other lighting equipment ¹	3,157,905	3,377,308
Total	23,242,989	25,577,072

1. Does not include floor lamps or table lamps.

TABLE 30. Factory Shipments of Wiring Devices, 1953 and 1954

Type	Selling value at works	
	1953	1954
Incandescent sockets (lamp holders) — metal shell	\$	\$
— porcelain, plastic, rubber and others	317,146	223,733
1	875,805	871,780
Fluorescent sockets (lampholders) all types		259,680
Switches — surface and flush types (except switches enclosed safety type)	1,071,707	1,059,358
— appliance	1,275,994	1,110,353
— canopy, pendant and all others	475,098	491,390
Receptacles (convenience outlets) single and duplex	1,171,141	656,028
Wall plates for switches and outlets	242,228	350,325
Attachment plugs, caps and cord connectors	362,104	408,939
Heater (or appliance) plugs	262,480	190,188
Current taps and attachment plugs	1	5,000
Cord sets (all types)	1,078,155	724,458
Outlet and switch boxes including covers	2,203,297	1,944,143
Outlet box connectors for armoured and non-metallic sheathed cable	915,920	727,490
Other wiring devices (except automobile starting switches and time switches)	4,540,044	3,218,334
Total	14,794,119	12,241,199

1. Not available separately.

TABLE 31. Factory Shipments of Converter Equipment, 1953 and 1954

Type	Number	Total rating	Selling value at works
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	—	—	3,315,130
Total	—	—	3,315,130
1954			
Motor-generator sets:			
A.C. to D.C.	210	35,868 k.w.	1,741,544
A.C. to A.C.	3	45 k.w.	3,094
Synchronous converters and double-current generators	—	—	—
Dynamotors, balancer sets and boosters	—	—	—
Mercury arc rectifiers for power purposes	—	—	619,710
Parts and supplies for converter equipment	—	—	2,304,348

TABLE 32. Production¹ of Pole Line Hardware, 1945-1954 (From All Industries)

Year	Selling value at works	Year	Selling value at works
	\$		\$
1945	1,408,991	1950	6,395,003
1946	2,908,760	1951	9,339,000
1947	4,388,444	1952	10,212,583
1948	5,525,302	1953	8,169,035
1949	6,987,494	1954	8,654,000

1. Factory shipments since 1952.

TABLE 33. Production³ of Domestic Washing Machines, 1945-1954 (From All Industries)

Year	Hand		Electric				Gasoline		Total	
			Automatic		Conventional ²					
	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works
		\$		\$		\$		\$		\$
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	29,162,241
1951.....	382	6,672	26,951	5,409,527	198,149	19,611,547	11,248	1,418,120	236,730	26,445,866
1952.....	641	12,915	26,523	4,985,666	216,235	21,293,150	10,184	1,255,334	253,583	27,547,065
1953.....	1	22	26,427	5,149,210	211,278	21,747,767	10,118	1,164,607	247,824	28,061,606
1954.....	—	—	27,566	5,439,401	192,000	18,796,893	5,109	606,399	224,675	24,842,693

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; 1,896 units valued at \$107,768 in 1953 and 638 units valued at \$37,028 in 1954.

3. Factory shipments since 1952.

TABLE 34. Production¹ of Domestic Electric Ironing Machines, 1945-1954 (From All Industries)

Year	Number	\$
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
1954.....	6,020	530,035

1. Factory shipments since 1952.

TABLE 35. Production of Miscellaneous Electrical Appliances, 1949-1954

Year	Heating pads		Clothes-dryers, automatic electric		Food mixers		Floor polishers	
	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	1	53,392	1,335,468	55,658	1,971,260
1950.....	143,613	539,092	1	1	78,303	1,929,135	86,055	3,539,727
1951.....	128,780	496,286	1	1	56,525	1,744,052	72,483	2,513,257
1952.....	118,454	460,742	7,931	1,291,145	57,513	1,683,112	92,099	3,377,181
1953.....	130,512	483,166	16,851	2,592,704	83,799	2,243,847	123,822	4,277,205
1954.....	112,948	407,570	20,775	3,017,964	115,413	2,401,558	130,239	4,595,004

1. Not available separately.

TABLE 36. Production¹ of Watthour Meters, 1945-1954

Year	Quantity	Selling value at works	Year	Quantity	Selling value at works
	No.	\$		No.	\$
1945.....	217,176	2,301,331	1950.....	488,932	6,668,164
1946.....	305,512	3,231,096	1951.....	509,752	7,211,494
1947.....	427,642	5,101,814	1952.....	391,232	6,190,325
1948.....	502,461	5,894,750	1953.....	411,523	6,936,263
1949.....	597,500	7,204,878	1954.....	434,169	7,368,439

1. Factory shipments since 1952.

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TABLE 37. Factory Shipments of Capacitors, 1954, (From all Industries)

Item	Quantity	Value of factory shipments
		No.
Power capacitors	6,980	650,222
Radio and TV capacitors, including radio condensers	—	4,929,588
Capacitors for electronic application (other than radio and TV)	}	472,990
Fluorescent ballast capacitors		
Miscellaneous capacitors		
Total	—	6,052,800

TABLE 38. Production Workers, by Months, 1953 and 1954

Month	1953			1954		
	Male		Female	Total	Male	Female
	No.	No.	No.	No.	No.	No.
January	37,849	14,431	52,280	37,719	15,542	53,261
February	38,285	14,865	53,150	37,312	15,078	52,390
March	38,397	15,212	53,609	37,039	14,713	51,752
April	38,901	15,407	54,308	36,537	13,998	50,535
May	39,118	15,582	54,700	35,856	13,964	49,820
June	39,251	15,911	55,162	35,798	13,773	49,571
July	38,821	15,867	54,688	35,409	13,500	48,909
August	38,914	16,523	55,437	35,287	14,224	49,511
September	39,424	17,140	56,564	35,631	15,072	50,703
October	39,055	17,501	56,556	35,098	15,459	50,557
November	38,954	17,361	56,315	34,966	15,701	50,867
December	38,472	16,394	54,866	34,432	15,179	49,611
Average	38,785	16,016	54,801	35,936	14,687	50,623

TABLE 39. Employees and Earnings in the Electrical Apparatus and Supplies Industry, by Provinces, 1953 and 1954

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				
1953								
Nova Scotia and Quebec	4,606	1,827	10,261	3,902	20,596	25,394,900	43,049,255	68,444,165
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	2,266,920
Alberta	8	4	34	4	50	38,082	82,782	120,844
British Columbia	148	42	403	50	643	763,928	1,329,893	2,093,821
Canada	15,634	6,401	38,785	16,016	76,856	86,573,525	164,073,252	250,646,777
1954								
Nova Scotia and Quebec	5,086	1,943	9,835	3,705	20,569	29,850,041	42,324,470	72,174,511
Ontario	11,765	5,264	25,081	10,772	52,882	67,490,758	114,102,433	181,593,191
Manitoba	135	56	589	139	919	816,934	1,629,815	2,446,749
Saskatchewan and Alberta ..	12	4	41	7	64	52,449	120,289	172,738
British Columbia	142	45	390	64	641	858,384	1,264,028	2,122,412
Canada	17,140	7,312	35,936	14,687	75,075	99,068,566	159,441,035	258,509,601

TABLE 40. Capital and Repair Expenditures in the Electrical Apparatus and Supplies Industry,
1950-1954

Industry	Capital expenditures		Repair and maintenance expenditures		Total capital and repair expenditures
	Construction	Machinery and equipment	Construction	Machinery and equipment	
\$'000					
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
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	2,865	12,004	58,214
1953					
Batteries	1,359	1,615	44	416	3,434
Heavy electrical machinery and equipment.....	8,126	6,123	1,023	5,476	20,748
Radios and radio parts.....	2,501	3,490	403	1,084	7,478
Refrigerators, vacuum cleaners, and appliances	1,140	2,182	258	1,511	5,091
Miscellaneous electrical products	2,705	6,806	928	5,694	16,133
Total	15,831	20,216	2,656	14,181	52,384
1954 ¹					
Batteries	1,077	1,109	54	412	2,652
Heavy electrical machinery and equipment.....	3,223	5,634	1,170	4,394	14,421
Radios and radio parts.....	1,838	4,012	392	1,362	7,605
Refrigerators, vacuum cleaners, and appliances	1,898	1,491	236	968	4,593
Miscellaneous electrical products	2,678	5,872	801	5,037	14,388
Total	10,714	18,118	2,653	12,174	43,659

1. Preliminary.

TABLE 41. Imports and Exports of Selected Commodities Considered to be of Interest to the Electrical Industry, 1953 and 1954

Product	1953		1954	
	Quantity	Value	Quantity	Value
(a) IMPORTS:		\$		\$
Batteries for flashlights, and parts.....	—	130,336	—	128,894
Batteries, hearing-aid, and parts.....	—	487,794	—	502,611
Batteries, electric and galvanic primary, and complete parts, n.o.p.	—	394,541	—	321,027
Storage batteries, n.o.p., and parts, including separator walls of wood.....	—	1,323,082	—	1,835,556
Cleaners, electric vacuum..... No.	104,068	3,456,726	102,672	3,135,003
Cleaners, hand-vacuum, and attachments, and complete parts of all vacuum cleaners.....	—	1,478,516	—	1,272,682
Cooking stoves, electric, valued at more than \$25 each No.	14,328	1,838,411	16,250	2,016,177
Space-heating and cooking apparatus, electric, n.o.p.	—	2,949,718	—	2,832,103
Heating apparatus, electric, other than for cooking or space-heating.....	—	1,257,446	—	1,146,651
DYNAMOS OR GENERATORS, AND PARTS.....	—	9,982,162	—	9,351,418
Fuses, fuse plugs and cutouts, electric, and complete parts, n.o.p.	—	797,900	—	956,446
Fluorescent tubes and other arc lamps..... No.	542,342	405,983	763,745	675,935
Home or farm freezers, electric No.	35,302	7,683,776	23,691	4,943,731
Photoflash lamps..... No.	3,474,209	280,102	5,191,019	322,688
Lamps, electric, incandescent, carbon filament No.	16,501	2,981	432	194
Lamps, electric, incandescent, metal filament No.	26,586,738	3,228,585	17,245,928	1,777,558
Lights — electric, head, side and tail lights, n.o.p.: electric torches or flashlights and parts.....	—	1,078,325	—	1,106,295
Electric light fixtures and appliances, n.o.p., and complete parts	—	5,470,324	—	5,549,678
Lightning arresters, choke coils, reactors and other protective devices, and complete parts, n.o.p.	—	242,285	—	308,633
Magneton and complete parts, for the manufacture of internal combustion engines.....	—	51,419	—	71,023
Electrical instruments and apparatus of precision of a class or kind not made in Canada, as enumerated in tariff item 445n.....	—	4,447,845	—	5,813,761
Meters, electric, and complete parts.....	—	1,554,915	—	2,043,071
Motors, electric, valued at less than \$10 each No.	119,740	359,370	65,173	255,312
Motors, electric, n.o.p., valued at \$10 or over and complete parts.....	—	15,539,332	—	11,969,892
Refrigerators, electric, domestic or store, completely equipped or not..... No.	184,749	30,449,035	105,723	17,759,590
Refrigerators, n.o.p., equipped or not No.	4,305	663,746	2,932	396,583
Refrigerators, parts of	—	16,733,904	—	15,763,295
Rheostats, controllers and other starting and controlling devices, and parts, n.o.p.	—	9,020,403	—	8,402,636
Sad irons, electric, and parts.....	—	406,124	—	654,790
Self-contained lighting outfits and parts, n.o.p.	—	62,357	—	53,473
Sockets, outlets and receptacles and parts, n.o.p.	—	1,722,431	—	1,807,752
Spark plugs, magnetos, n.o.p., and other ignition apparatus and parts.....	—	106,639	—	90,462
Switches, switchboards, n.o.p., circuit breakers and parts.....	—	10,650,623	—	10,766,881
Switch gear, flame-proof, electric, for use underground in coal mines, and parts.....	—	144,894	—	95,567
TELEGRAPH APPARATUS, ELECTRIC, AND PARTS.....	—	4,108,351	—	3,270,369
Telephone apparatus, electric, and parts.....	—	8,946,907	—	10,514,153
Television receiving sets No.	16,973	2,253,643	19,085	2,080,429
Transformers and parts, n.o.p.	—	5,014,497	—	5,709,407
Washing machines, electric, domestic..... No.	29,233	2,605,057	25,201	3,024,855
Washing machines, domestic, parts of.....	—	2,610,956	—	2,405,533
Radio tubes No.	12,458,719	14,718,403	7,213,359	8,803,019
Radio receiving sets No.	24,364	1,253,634	15,781	921,172
Radio receiving sets, parts of, as enumerated in tariff item 445o	—	10,889,816	—	11,057,397
Radio tube parts as enumerated in tariff item 445p.....	—	3,655,554	—	4,775,959
Radio and wireless apparatus, electric, n.o.p.	—	41,695,034	—	58,453,993
Electric dry-shaving machines, for use in removing human hair, and parts thereof.....	—	2,385,024	—	3,185,960
Electric steam turbo generator sets, 700 h.p. and greater, of a class or kind not made in Canada, and parts..... No.	11	7,354,067	11	3,012,563
Electric or gas welding apparatus, not including motors.....	—	5,259,564	—	4,177,835
Sound equipment.....	—	1,993,013	—	2,693,611
Electrical apparatus, n.o.p., and parts.....	—	19,879,738	—	23,197,884
Welding rods or welding wires of all kinds..... Cwt.	93,200	2,008,405	92,289	2,154,529
Equipment for generating electric power for farm purposes only.....	—	119,814	—	90,672
Sewing machines..... No.	109,684	5,911,785	89,450	4,451,104

TABLE 41. Imports and Exports of Selected Commodities Considered to be of Interest to the Electrical Industry, 1953 and 1954 — Concluded

Product	1953		1954		
	Quantity	Value	Quantity	Value	
		\$		\$	
(a) IMPORTS—concluded:					
Dental engines, electric	No.	501	108,270	349	81,942
Ice-making and refrigerating machinery, n.o.p., and parts	—	4,025,066	—	4,659,061	
Water turbines, n.o.p., and parts	—	734,432	—	889,595	
Air conditioning apparatus, including blowers and ventilating machinery, and parts.....	—	6,639,348	—	8,203,049	
Oil burners, n.o.p.	No.	35,250	4,299,794	19,531	1,953,082
Heating and cooking apparatus, parts of	—	8,970,087	—	9,534,504	
Industrial furnaces and parts	—	3,446,997	—	2,037,218	
Water heater parts, including automatic pilots, thermostatic and other controlling devices.....	—	467,181	—	323,647	
Water heaters of all types	No.	31,241	1,377,629	43,948	1,782,001
Aluminum wire and cable, twisted, stranded or not, reinforced with steel or not	Cwt.	1,403	76,617	30,824	824,680
Copper wire, n.o.p.	Lb.	583,008	190,467	174,637	91,092
Non-ferrous wire, single or several, covered with any material, including cable so covered	—	2,678,940	—	2,916,435	
Non-ferrous wire twisted, braided or stranded, including wirerope and wire cable, coated or not, n.o.p.	—	404,553	—	248,776	
Non-ferrous wire of all kinds, n.o.p.	—	350,081	—	339,348	
Insulators, electric, porcelain and parts.....	—	517,821	—	502,471	
Insulators, electric, n.o.p., and complete parts.....	—	488,545	—	488,526	
Phonographs, graphophones, gramophones and finished parts.....	—	689,554	—	893,955	
Phonographs, coin-operated	No.	2,217	840,453	1,631	784,341
X-ray apparatus.....	—	2,777,361	—	3,814,970	
(b) EXPORTS:					
Storage batteries.....	No.	25,383	367,700	15,863	229,931
Storage battery parts	—	32,746	—	83,662	
Batteries and parts, n.o.p.	—	38,629	—	190,421	
Radio receiving sets (except batteries)	No.	23,329	994,208	16,049	1,516,442
Radio and wireless apparatus, n.o.p. (except batteries)	—	22,927,491	—	6,833,418	
Telegraph and telephone apparatus, n.o.p.	—	2,386,885	—	1,786,799	
Transformers and parts	—	718,123	—	1,194,308	
DYNAMOS AND GENERATORS, AND PARTS.....	—	1,677,658	—	2,368,806	
Electric meters and parts	—	1,477,682	—	1,369,957	
Electric motors and parts	No.	52,703	1,001,608	84,637	1,125,147
Electric stoves and parts	I.O.	532	84,036	498	90,707
Electric heating and cooking devices, domestic, n.o.p.	—	40,928	—	252,828	
Spark plugs	—	1,597,706	—	2,032,218	
Electrical parts for vehicles and engines.....	—	207,736	—	239,337	
Switches, sockets and other wiring devices.....	—	124,537	—	122,619	
Electric lamps and shades	—	19,314	—	26,065	
Electric light fixtures and parts.....	—	60,183	—	49,303	
Washing machines, domestic, electric.....	No.	5,705	625,504	4,886	529,681
Electric vacuum cleaners and parts.....	No.	26	6,493	17	6,695
Refrigerators and parts, power	No.	1,944	461,774	2,425	287,493
Electrical apparatus, n.o.p.	—	4,073,066	—	3,744,158	

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1954

Name of firm	Location of plant
(a) Batteries	
Quebec:	
Cipel (Canada) Ltd.	Rue Notre Dame, Valleyfield
Hart Battery Division, The Linseed Oil Co. Ltd.	170 St. George St., St. Johns
New Era Battery Company....	2240 Bellechasse St., Montreal
Service Specialty Company Ltd.	90 Bates Road, Outremont
Ontario:	
Burgess Battery Company	415 Buttrey St., Niagara Falls
Exide Batteries of Canada Ltd.	153 Dufferin St., Toronto & 663 Warden Ave., Scarborough
General Dry Batteries of Canada Ltd.	228 St. Helen's Ave., Toronto
Globe Union Canada (1953) Ltd.	Ajax
Gould-National Batteries of Canada, Ltd.	Maple St., Kingston and Fort Erie
Hay Battery Co., Limited, The....	1300 Barton St. E., Hamilton
La Salle Lead Products Ltd.	680 Wyandotte St. E., Windsor
National Carbon Company	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
Alberta:	
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
British Columbia:	
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	70 Departure Bay Road, Nanaimo
Jones Bros. Batteries, Limited	1314 Quadra St., Victoria
Major Batteries Ltd.	271 Ingram St., Duncan
X-LKO-Manufacturing Ltd.	1655 Main St., North Vancouver
(b) Heavy Electrical Machinery and Equipment	
Quebec:	
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
Cemco Switchgear Ltd.	561 Maisonneuve Street, Granby
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
Ontario:	
Acme Electric Corporation Ltd.	Northline Rd. #50, Toronto
Allanson Armature Mfg. Co. Ltd.	33 Cranfield Rd., Toronto
Allen-Bradley Canada Ltd.	135 Dundas St., Galt
Amalgamated Electric Corp. Ltd.	384 Pape Ave., Toronto
Bull Dog Electric Products Company (Canada) Ltd.	80 Clayton Road, Toronto
Canadian Controllers Limited.	169 Eastern Ave., Toronto
Canadian Electric Box and Stampings Ltd.	1402 Queen St. E., Toronto
Canadian General Electric Co. Ltd.	Guelph
Canadian General Electric Co. Ltd.	940 Lansdowne Ave., Toronto
Canadian General Electric Co. Ltd.	4 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
English Electric Company of Canada Ltd.	George Street, St. Catharines
Ferranti Electric Limited	Industry St., Mount Dennis, Toronto
F.H. Welding Machines Ltd.	12 Jutland Road, Toronto and Windsor

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1954 - Continued

Name of firm	Location of plant
(b) Heavy Electrical Machinery and Equipment - Concluded	
Ontario - Concluded:	
Fraser, D.M., Limited.....	1070 Birchmont Rd., Toronto
Hammond Manufacturing Co., Ltd.	40 Wellington St. W., Guelph
Hunt Capacitors (Canada) Ltd.	Ajax
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
Link Welder of Canada Ltd.	2930 College Ave., Windsor
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 Tyco 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
Union Switch Box Co. Ltd.	42 Vanauley St., Toronto
Weld-O-Matic Machines Ltd.	519 Parkdale Ave. N., Hamilton
Manitoba:	
Amalgamated Electric Corp. Ltd.	677 Notre Dame Ave., Winnipeg
Pioneer Electric Limited	1 Rockwood Place, Fort Garry
Saskatchewan:	
Drayland Mfg. Co. Ltd.	Lumsden
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
(c) Radios and Radio Parts	
Nova Scotia:	
Cossor (Canada) Ltd.	301-303 Windsor St., Halifax
Quebec:	
Aerialite (Canada) Ltd.	5275 Cote St. Paul Rd., Montreal
Amplitrol Electronics Ltd.	7080 Hutchison St., Montreal
Amplification and Communication Enrg.	9967 St. Michel Blvd., Montreal
Audio-Vox Company	4510 DeLarache, Montreal
Canadian Aviation Electronics Ltd.	8280 St. Lawrence Blvd., Montreal and 6214 Cote De Liesse Road, Montreal
Canadian Marconi Company	2442 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
King's Electronics (Canada) Ltd.	925 - 14th Avenue, Lachine
Lifco Record Players	408 St. James St. W., Montreal
Monarch Radio Mfg. Co.	3839 Arcade St., Montreal
Norel Electrical Products.....	355 Beaubien 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 & 325 Decelles St., Granby
Record Players Corp.	9500 St. Lawrence Blvd., Montreal
S.K.S. Electronics Mfg. Ltd.	19 Notre Dame E., Montreal
Standard Telephones and Cables Mfg. Co. (Canada) Ltd.	9600 St. Lawrence Blvd., Montreal
Televox Systems Reg'd.	788 St. Bernard St., Montreal
Ontario:	
Acro-Components Ltd.	729 Dundas St., London
Aerovox Canada Limited.....	1551 Barton St. E., Hamilton
Antiference (Canada) Ltd.	140 Kendal Ave., Toronto
Arrow Radio Co.	1829 Davenport Rd., Toronto
Audio Transformer Co.	56 King St. N., Waterloo
Automatic Coil Mfg. Ltd.	50 Wingold Ave., Toronto
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

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1954 — Continued

Name of firm	Location of plant
(c) Radios and Radio Parts — Continued	
Ontario—Continued:	
Bennett and Collins Ltd., Mfg. Division.....	5 Thorpe St., Dundas
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., 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
Canadian Videocraft Mfg. Co.	42 Glastone Ave., Toronto
Canadian Westinghouse Co. Ltd.	Brantford
Cannon Electric Co. Ltd.	160 Bartley Drive, Toronto
Capital Television Ltd.	2197 Gerrard St., Toronto
Centralab Canada Ltd.	Ajax
Consolidated Electronic Equipment Co. Ltd.	1156 Yonge St., Toronto
Copper Wire Products Ltd.	300 Campbell Ave., Toronto
Crosley Radio & Television Division Avco of Canada Ltd.	Gibson and Wright Avenues, Toronto
Crystal Radio of Canada Ltd.	56 Esplanade 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
Electromark Ltd.	132 St. Marie Street, Collingwood
Electronic Materiels International Ltd.	342 Gladstone Ave., Ottawa
Erie Resistor of Canada Ltd.	7 Fraser Ave., Trenton
Essex Electronics of Canada Ltd.	99 Wragg St., Trenton
Executone Communication System Ltd.	331 Bartlett Avenue, Toronto
Farley, T.S. Limited.....	174 Catherine St. N., Hamilton
Glaser-Steers of Canada Ltd.	99 Wragg St., Trenton
Hackbusch Electronics Ltd.	23 Primrose Ave., Toronto
Hallicrafter Canada Ltd.	Don Mills
Halip Industries Ltd.	1660 Durham Place, Windsor
High Frequency Development Co.	3468 Dundas St., Toronto
Industrial Electronics of Canada.	4889 Dundas St., Toronto
International Resistance Co. Ltd.	349 Carlaw Ave., Toronto
Lindray Antenna Products	12 Durham St. E., Lindsay
Manning Radio Ltd.	552 Mt. Pleasant Road, Toronto
Marsland Engineering Ltd.	154 Victoria St., Kitchener
Marsland, Eric & Co.	824 Victoria St., Kitchener
McCurdy Radio Industries.	74 York St., Toronto
Measurement Engineering Limited.	Arnprior
Meredith, C.C. & Co. Limited.....	Thomas Street, Streetsville
Methode Mfg. Canada Ltd.	14 Raitherm Road, Toronto
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.	Don Mills Road, Don Mills
Precision Electronic Components Ltd.	50 Wingold Avenue, Toronto
Pye Canada Limited	Fist Street, Ajax
Radio Components Ltd.	560 King St. W., Toronto
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
RCA Victor Company Limited	Prescott
Robotronic Mfg. Co.	17 Scarlett Road, Toronto
Skyline Antenna Mfg. of Canada Ltd.	24 Alexandria St. Thomas
Smallwood, S.G., Limited.....	397 King St. E., Kitchener
Snelgrove, C.R., Co. Ltd.	391 Sammon Ave., Toronto
Soundmaster	283½ Bank St., Ottawa
Sparton of Canada Limited	Elm and Pine Sts., London
Speight, N.H., Laboratories	145 Wellington St. W., Toronto
Standard Television Products Ltd.	108 Sydney St., Kitchener
Stanwyck Coil Products Ltd.	17 Laurier St., Hawkesbury
Stewart-Warner Corp. of Canada Ltd.	MacDonald Avenue, Belleville
Superb Electric Industries Ltd.	751 Bathurst St., Toronto
Sylvania Electric (Canada) Ltd.	Broad Street East, Dunnville
Telecom Limited	163½ Church St., Toronto
Telequipment Mfg. Co.	729 Dundas St. (rear), London
Tenatronics Ltd.	Davis Drive, Newmarket
Tipping, Stanley, Esq.	36 Esgore Drive, Toronto
Valeriote Electronics Ltd.	3 Victoria Road, Guelph
Vicom & Co. (Canada) Ltd.	Norman Rogers Airport, Kingston
Watt Electronic Products Ltd.	151 Weber St., Waterloo

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1954 - Continued

Name of firm	Location of plant
(c) Radios and Radio Parts - Concluded	
Ontario - Concluded:	
Welwyn Canada Ltd.	1255 Brydges St., London
White Radio Ltd.	41 West Ave. N., Hamilton
Wright W. Gary, Electronics of Canada Ltd.	628 Kent St. W., Whitby
Manitoba:	
Canadian Aviation Electronics	387 Sutherland Ave., Winnipeg
Alberta:	
Electronic Research & Development Co. Ltd.	512 - 9th St. W., Calgary
British Columbia:	
Barvic Engineering Limited	1285 Homer St., Vancouver
Chisholm Industries Limited	4515 Main St., Vancouver
Ekelite 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
McCarter Radio & Television Ltd.	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
(d) Refrigerators, Vacuum Cleaners and Appliances	
Quebec:	
Canadian Armature Works	6595 St. Urbain St., Montreal
Canadian General Electric Company Ltd.	5781 Notre Dame St. E., Montreal
Colsan Limited	636 St. Paul St. W., Montreal
Danby Appliance Co., The	2157 St. Patrick St., Montreal
Electriglas Distributors of Canada	201 Craig Street W., 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
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.	35 Fieldway Road, Toronto
Brewes Electric	127 Raleigh Ave., 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.	180 Bradford St., Barrie
Canadian General Electric Co. Ltd.	224 Wallace Ave., Toronto
Canadian Westinghouse Co. Ltd.	Etobicoke
Carrier Engineering Ltd.	Longwood Road, Hamilton
Chandler Electric Co.	857 Queensway, Toronto
Clyde Fans Limited	3160 Dundas St. W., Toronto
Continental Electric Co. Ltd.	241 King St. East, Toronto
Cory Corporation Canada Ltd.	310 Spadina Ave., Toronto
Domestic Electric Co.	3300 Dufferin St., Toronto
Durable Electric Appliance Co.	272 Church St., Toronto
Electric Element & Mica Co. Ltd.	81-83 Jarvis St., Toronto
Electric Magnetic Blanket Co.	Spruce St., Richvale
Endress, George W., Co. Ltd.	52 King St. W., Cobourg
Ever-Bright Ltd.	Third St., Ajax
Filtro Products	1415 Weston Rd., Toronto
Force Electric Products Limited	37 Mansion Ave., Toronto
Frigidaire Products of Canada Ltd.	163 Church St., Acton
Gilson Manufacturing Co. Ltd.	1901 Eglinton Ave. E., Scarborough
Glassheat of Canada Ltd.	York Road, Guelph
Graham Metal Products Ltd.	1603 The Queensway, Toronto
Groh's Cooler Limited	Bishop St., Preston
Hanksraft, (Canada) Ltd.	Concession Rd., Preston
High Test Electrical Mfg. Ltd.	Third St., Ajax
	127 Lennox St., Toronto

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1954 - Continued

Name of firm	Location of plant
(d) Refrigerators, Vacuum Cleaners and Appliances - Concluded	
Ontario - Concluded:	
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
Lindavap Ltd.....	605 Caron Ave., Windsor
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
O.H.M. Rite Electric Ltd.	R.R. No. 1, Weston
Pittsburgh Water Heater Co. Limited	Grimsby
Pyrexon Ray Company Ltd.	1254 Dundas St. W., Toronto
Radiant Devices Ltd.	94 Yonge St., Toronto
Reed-Cameron	516 Richmond St. W., Toronto
Renfrew Electric & Refrigerator Co. Ltd.	Renfrew
Rotor Electric Company Ltd.	131 McCormack St., Toronto
Samson Dominion	24-30 Curity Ave., Toronto
Schultz Mfg. Co. Ltd.	154-158 York St., Hamilton
Sea Breeze Mfg. Ltd and Audio Tool & Eng. Ltd.	32 Water 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.	42 Queen Elizabeth Blvd., Toronto
Thermax Limited	Orillia
Triad Appliances	1 Torbarrie Rd., Weston
Universal Cooler Co. Ltd.	145 Brant St., Brantford
Wood, W.C. Co. Ltd., The	123 Woolwich St., Guelph
Manitoba:	
Coldstream Refrigerator Mfg. Ltd.	1855 Sargent Ave., Winnipeg
Element Specialty Mfg. Co.	223 Morley Ave., Winnipeg
Master Products Co.	548 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
(e) Miscellaneous Electrical Products	
Quebec:	
Cables, Conduits & Fittings, Limited	69 Richelieu St., St. Johns
Canadian Cameo Chime Co. Ltd.	10332 Lille St., Montreal
Canadian General Electric Co. Ltd.	St. Malo
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
Electric Sales & Service and Dave's Repair Shop	24 Craig St. W., Montreal
Electrolier Manufacturing Co. Ltd.	5849 Boyer St., Montreal
Flex-I-Con Mfg. Company Ltd.	6155 Lafontaine St., Montreal
Gaymont Manufacturing Corp.	4104 St. Catherine 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.	748 Lusignan St., Montreal
Kitai-Electric	5343 Hutchison 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

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1954 - Continued

Name of firm	Location of plant
(e) Miscellaneous Electrical Products - Continued	
Quebec - Concluded:	
Progress Luminaire Ltd.	5525 Pare, Town of Mount Royal
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.	8025 Dryden Ave., Ville St. Michel
Schonbek, A. & Co., Ltd.	704 Notre Dame St. W., 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
Universal Electric Products Co. Ltd.	2155 Moreau St., Montreal
Ontario:	
Ardron-Mackie Ltd.	9 Niagara St., Toronto
Arrow-Hart & Hegeman (Canada) Ltd.	Industry Street, Toronto
Automatic Electric (Canada) 1953 Ltd.	100 Stronger Blvd., Brockville
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 Herder	Petersburg
Branston, Chas. A., Limited	2508 Yonge St., Toronto
Burger Lighting Products Ltd.	27 Sackville Place, 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
Canada Wire & Cable Co. Ltd.	Laird Drive, Leaside
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-Carrol Brass & Fixtures Limited	365 Wilson St., Hamilton
Colonial Lighting Co., The	608 King St., Port Colborne
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
Dalgleish Electric Supply	124 McNab St. N., Hamilton
Daly-Arrow Ltd.	140 Kendal Ave., Toronto
de Sherbinin, I.F.	428 Rideau Street, Ottawa
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
Fixturlite Mfg. Co.	1457 Dundas St., Toronto
Fleck, R.D., & Co. Ltd.	184 Bond St. W., Oshawa
Garcy Company of Canada Ltd.	191 Niagara St., 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
Ilasco Industries	619 Yonge St., Toronto
Industrial Wire & Cable Ltd.	35 Golden Ave., Toronto
Kamro Lighting Products	R. R. No. 1, Weston
Kearney, James R., Corp. of Canada Ltd.	3 Crawford St., Guelph
Kelk, G.F., & Co.	70 Sheffield St., Toronto
Kondu Mfg. Co. Limited	South Street, Preston
Kruger Mfg. Company Ltd.	35 Carson St., Toronto
Landy, M.A., Co. Ltd.	47 Lucy Ave., Toronto

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1954 - Concluded

Name of firm	Location of plant
(e) Miscellaneous Electrical Products - Concluded	
Ontario - Concluded:	
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
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
Powertronic Equipment Limited	50 Bermondsey Rd., Toronto
Pyrotenax of Canada Ltd.	Trenton
Rayo Electrical Products	124 Mimico, 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
Stark Electronics Instruments Ltd.	Ajax
Steber-Woodhouse Ltd.	2368 Dundas Street W., Toronto
Sterne Equipment Co. Ltd.	152 Lappin Ave., Toronto
Swift Devices Limited	14 George St., Hamilton
Taylor Electric Mfg. Co. Ltd.	625 Princess Ave., London
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
Vulcan Electric Products Ltd.	3160 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
Wynston, A.L., Jr., Ltd.	14 251 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. & Richmond 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
Uni-Craft Ltd.	Fort Garry
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
Vancouver Lighting Co. Ltd.	924 Hastings St., Vancouver
West Coast Electric Ltd.	1980 Cypress St., Vancouver
Western Lighting Fixture Co. Ltd.	246 W. 2nd Ave., Vancouver

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