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Walter G. Duffett

THE ELECTRICAL APPARATUS AND
SUPPLIES INDUSTRY

1951



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THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY
1951

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NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 4 volumes, as follows: **Volume I**—The Primary Industries, including mining, forestry and fisheries, **Volume II**—Manufacturing; **Volume III**—Construction; **Volume IV**—Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries 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, by Provinces
 - Section 1. Principal Statistics of Major Industrial Groups and Leading Industries, 50¢.
 - Section 2. Principal Statistics of Individual Industries, 75¢.
 - Section 3. Principal Statistics by Regional Distribution, 75¢.
- III—Foods and Beverages
- IV—Tobacco and Tobacco Products
- V—Rubber Products
- VI—Leather Products
- VII—Textiles
- VIII—Wood and Paper Products
- IX—Printing Trades
- X—Iron and Steel Products
- XI—Transportation Equipment
- XII—Non-ferrous Metal Products
- XIII—Electrical Apparatus and Supplies
- XIV—Non-metallic Mineral Products
- XV—Products of Petroleum and Coal
- XVI—Chemicals and Allied Products
- XVII—Miscellaneous Manufactures

This is the only report for Part XIII. It gives separately the principal statistics for the five subdivisions of this major group. It is punched to permit filing in a ring binder. 25¢.

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THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY

1951

Production by firms in the Electrical Apparatus and Supplies Industry was valued at \$676,008,959 in 1951, an increase of 16.4 per cent over the 1950 total of \$580,578,386. The 373 firms which reported in this group for 1951 were distributed across Canada as follows: 1 in Nova Scotia; 76 in Quebec; 247 in Ontario; 18 in Manitoba; 4 in Alberta and 27 in British Columbia. These plants gave employment to a total of 67,626 workers who were paid \$194,749,038 in salaries and wages. Materials worth \$316,561,307 were purchased for use in manufacturing processes and an additional \$5,844,780 were spent for fuel and electricity.

This industrial group includes most of the concerns in Canada which manufacture equipment for use in the generation, transmission and utilization of electricity. However, it is not possible to include all such producers in this group under the Standard Industrial Classification which is used for the annual Census of Industry. According to this system, which combines the concept of "purpose" with that of "chief component material", some important producers must be allotted to other industries. For example, since clay is the chief material used in making porcelain insulators, the producers of these goods have been classified to the Clay Products Industry under the main group which embraces all manufactures of non-metallic minerals; similarly, the makers of electric washing machines have been included in the Machinery Industry of the iron and steel group. Again, some electrical supplies were made as minor products of plants which were primarily engaged in other lines of business and, therefore, were included in other industries. The output of electrical apparatus in these other industries, including electrical accessories for automobile and household use, but excluding office and industrial machinery, amounted in value to about \$108 millions in 1951.

Statistics given in Tables 1 to 5 and 36 of this report cover only the concerns in the Electrical Apparatus and Supplies Industry. Tables 6 to 34 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 35 is a special compilation covering imports and exports of certain specified electrical products.

The Standard Industrial Classification, which has been used by the Dominion Bureau of Statistics in its compilations since 1949, provides for a breakdown of the Electrical Apparatus and Supplies group into five divisions, and individual firms were classified to each of these divisions according to the nature of their principal product. For example, a firm primarily concerned with the production of radios (that is, 50% or more of its output by value being accounted for by radios) was classified to the Radios and Radio Parts group. It follows, of course, that by using this principle not all producers of radios are coded in this class. For instance, a firm chiefly engaged in, say the production of refrigerators, might also make radios as a secondary product. In this case it would properly be classified to the Refrigerators, Vacuum Cleaners and Appliances group. Principal statistics for the five groups are detailed in Table 2.

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

TABLE 1. Principal Statistics of the Electrical Apparatus and Supplies Industry, 1947-1951

Year	Number of plants	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works	Net ¹ value of production
			\$	\$	\$	\$	\$
1947	296	52,736	103,891,016	3,515,897	162,131,266	366,506,203	200,859,040
1948	314	53,873	122,113,644	4,046,490	180,344,829	425,725,279	241,333,960
1949	365	55,916	137,278,521	4,483,959	212,460,413	486,355,355	269,341,983
1950	382	60,262	155,334,065	5,136,183	260,306,027	580,578,386	315,136,176
1951	373	67,626	194,749,038	5,844,780	316,561,307	676,008,959	353,602,872
Percent change 1951 from 1950	-	+12.2	+25.4	+13.8	+21.6	+16.4	+12.2

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

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

TABLE 2. Principal Statistics, by Sub-groups¹ 1950 and 1951

Group	Number of plants	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
1950						
Batteries	26	2,174	5,555,442	340,595	21,202,084	34,557,606
Heavy electrical machinery and equipment	49	20,825	57,380,065	1,689,741	73,966,855	187,758,282
Radios and radio parts	67	8,499	20,047,764	458,050	31,257,857	66,597,406
Refrigerators, vacuum cleaners and appliances	95	9,518	22,843,556	888,578	59,570,593	120,929,701
Miscellaneous electrical products	145	19,246	49,507,238	1,759,219	74,308,638	170,735,391
Total	382	60,262	155,334,065	5,136,183	260,306,027	580,578,386
1951						
Batteries	25	2,139	6,139,832	370,256	23,983,736	37,721,356
Heavy electrical machinery and equipment	50	25,296	75,598,912	1,823,329	96,604,451	221,569,105
Radios and radio parts	70	10,131	28,268,089	620,269	41,158,787	85,624,192
Refrigerators, vacuum cleaners and appliances	87	8,803	24,052,114	1,093,730	54,789,621	110,012,514
Miscellaneous electrical products	141	21,257	60,690,091	1,937,196	100,024,712	221,081,792
Total	373	67,626	194,749,038	5,844,780	316,561,307	676,008,959

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

TABLE 3. Principal Statistics, by Provinces, 1950 and 1951

Province	Number of plants	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
1950						
Nova Scotia	1	16,507	42,432,558	1,272,596	61,645,338	142,592,814
Quebec	81					
Ontario	250	42,628	110,542,316	3,756,579	194,002,398	428,337,963
Manitoba	17	632	1,190,121	66,387	2,887,825	5,864,224
Alberta	4	17	26,040	2,362	24,597	64,713
British Columbia	29	478	1,143,030	38,259	1,745,869	3,718,672
Canada	382	60,262	155,334,065	5,136,183	260,306,027	580,578,386
1951						
Nova Scotia	1	18,726	52,990,581	1,536,899	79,159,110	172,700,400
Quebec	76					
Ontario	247	47,681	138,733,370	4,194,597	230,639,879	490,151,476
Manitoba	18	698	1,515,509	69,254	3,866,371	7,476,642
Alberta	4	16	37,977	2,052	73,236	195,757
British Columbia	27	505	1,471,601	41,978	2,822,711	5,484,684
Canada	373	67,626	194,749,038	5,844,780	316,561,307	676,008,959

TABLE 4. Products Made in the Electrical Apparatus and Supplies Industry, 1950 and 1951

Product	1950		1951	
	Quantity	Selling value at works	Quantity	Selling value at works
	Number	\$	Number	\$
Apparatus:				
Converter equipment (see Table 30)	—	2,897,888	—	4,131,521
Industrial control (see Table 23)	—	7,807,546	—	11,033,924
Generators and parts (see Table 6)	—	12,344,305	—	16,779,571
Motors (x) and parts (see Table 7)	—	35,445,037	—	41,824,702
Switchgear and protective equipment (x) (see Table 10)	—	29,787,393	—	35,626,220
Transformers and parts (x) (see Table 8)	—	38,785,064	—	48,160,728
Welding apparatus (x) (see Table 22)	—	2,907,126	—	3,747,597
Appliances:				
Cooking and heating equipment:				
Stoves, rangettes, cooking plates (x) (see Table 21)	322,238	12,194,399	268,484	12,801,908
Heating elements for stoves, etc. (x)	—	2,196,700	—	2,733,354
Radiant heaters, electric (x)	66,503	467,199	86,347	581,148
Unit heaters (x)	11,207	198,690	1,138	67,716
Heating pads, electric (x)	134,846	506,491	124,608	477,493
Water heaters, electric (x) (see Table 24)	203,277	1,657,538	227,893	1,480,668
Flat irons, electric (x) (see Table 17)	472,531	2,722,112	407,504	2,646,079
Toasters, electric (x) (see Table 18)	325,480	1,827,533	240,152	1,540,411
All other cooking and heating apparatus	—	3,946,039	—	2,714,133
Motor-driven equipment:				
Food mixers, electric	78,303	1,929,135	56,525	1,744,052
Vacuum cleaners and parts (x) (see Table 11)	—	8,540,901	—	8,901,731
Fans, A.C. and D.C.:				
Portable type	118,471	1,075,718	95,478	946,892
All other types (x)	47,639	632,396	35,363	604,367
All other motor-driven appliances, including washing machines, air conditioners, etc.	—	12,120,599	—	11,369,364
Refrigeration equipment (x) (see Tables 25 and 26)	—	78,920,901	—	63,906,511
Batteries:				
Storage batteries (see Table 13)	—	17,105,282	—	20,199,803
Dry cell batteries (see Table 12)	—	8,747,378	—	8,903,143
Parts and supplies for batteries, and wet cell type batteries ..	—	2,044,996	—	2,459,649
Conduit and fittings (x) (see Table 9)	—	6,629,734	—	7,494,488
Cutouts and fuses (see Table 27)	—	3,168,651	—	4,392,828
Electro-therapeutic apparatus (X-ray machines, therapeutic lamps, etc.)	—	569,525	—	727,019
Electrical industrial heating equipment:				
Furnaces:				
Resistance type (x)	—	364,651	—	355,889
Other types (x)	—	—	—	—
Industrial ovens (x)	—	1,574,967	—	1,812,229
Other industrial heating equipment	—	—	—	—
Instruments and meters:				
Watt hour meters	488,932	6,668,164	509,752	7,211,494
Electrical indicating instruments (x)	—	399,243	—	539,508
Other electrical instruments and meters (x)	—	1,284,473	—	1,183,369
Parts for instruments and meters	—	669,968	—	1,321,563
Lamps (bulbs):				
Incandescent (except therapeutic) (see Table 19)	103,086,840	13,371,032	94,006,324	12,176,899
Fluorescent (see Table 19)	5,138,552	4,110,949	5,262,530	3,252,267
Lighting fixtures (x) (see Table 28)	—	19,329,210	—	21,564,969
Line material, including pole line hardware (x) (see Table 31) ..	—	4,499,259	—	6,173,148

TABLE 4. Products Made in the Electrical Apparatus and Supplies Industry, 1950 and 1951
Concluded

Product	1950		1951	
	Quantity	Selling value at works	Quantity	Selling value at works
	Number	\$	Number	\$
Radio apparatus and supplies:				
Radio receiving sets for civilian use (x) (see Table 14).....	820,772	33,497,785	628,395	29,635,311
Phonographs, electrically operated.....	17,512	562,849	9,959	248,057
Record players, electrically operated.....	26,760	494,215	49,970	1,164,917
Radio transmission equipment for civilian use	—	2,311,703	—	3,530,019
Radio condensers.....	—	2,270,380	—	2,524,557
Television equipment — Complete sets (see Table 15).....	32,971	7,764,952	48,657	12,902,090
Other equipment.....	—	165,413	—	364,685
All other radio equipment, except tubes and transformers.....	—	8,808,492	—	21,562,128
Signal systems:				
Traffic	—	367,691	—	321,190
Fire alarm.....	—	368,305	—	499,873
Interior signal and clock systems, excluding telephone	—	573,846	—	999,405
Vacuum tubes (see Table 16).....	—	5,871,221	—	6,282,858
Wiring devices (x) (see Table 29).....	—	14,805,491	—	15,628,798
Wires and cables (x) (see Table 20).....	—	83,915,561	—	115,203,948
Miscellaneous:				
Fencers, electric (x).....	10,463	99,144	13,650	117,652
Rectifiers for storage battery charging ¹	—	503,903	—	767,498
Telephone materials, including exchange switchboards, tele- phones, transmitters, etc.....	—	29,720,985	—	40,255,317
All other products, not separately specified	—	34,756,141	—	45,485,743
Amount received for repair work	—	4,272,117	—	4,926,558
Total all products	—	580,578,386	—	676,008,959

1. Includes "fast" battery chargers.

Note. In the Census of Industry the reporting firms are classified to certain industries in accordance with the nature of the main products which they manufacture. Data in this table represent only the output of concerns classified to the Electrical Apparatus and Supplies Industry. The figures for the individual items do not necessarily represent the total output in Canada as these articles may have been produced as minor products by companies which have been classified to other industrial groups. The (x) indicates that the article was made also in other industries. For the total Canadian output of certain major items, see Tables 6 to 33.

TABLE 5. Materials Used in the Electrical Apparatus and Supplies Industry, 1950 and 1951

Material	1950		1951	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Aluminum:				
Castings	lb. 3,693,884	2,496,921	3,845,009	2,429,005
Ingots.....	lb. 989,730	201,439	1,972,001	468,174
Rods and bars.....	lb. 7,945,145	1,831,254	11,119,498	2,941,502
Scrap	lb. —	17,644	—	27,421
Sheets	lb. 3,090,814	1,094,498	3,703,309	1,454,499
Other	—	546,071	—	1,054,365
Ammonium chloride (sal ammoniac).....	lb. 2,657,067	164,633	2,390,694	165,561
Antimony	lb. 136,489	31,220	143,176	32,795
Argon.....	cu. ft. 613,702	86,874	622,619	86,404

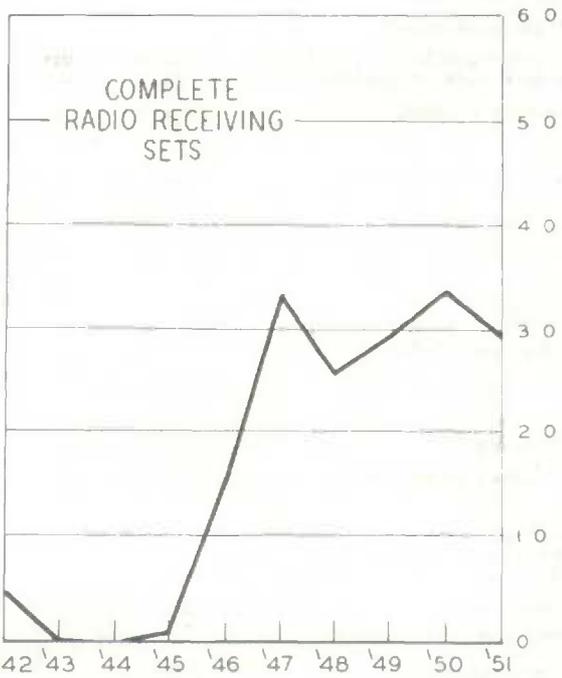
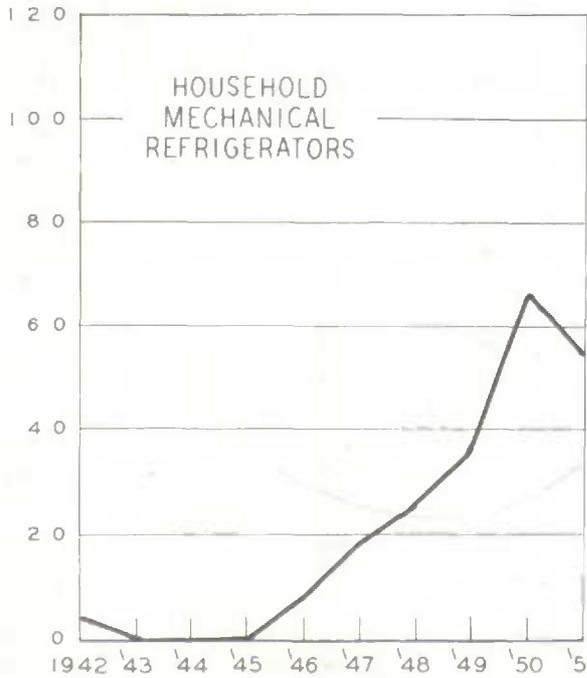
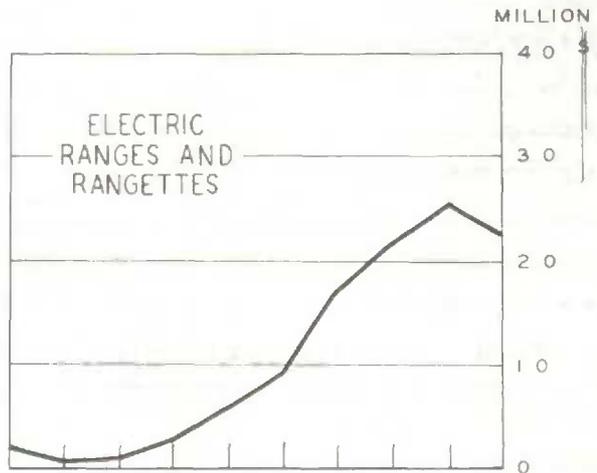
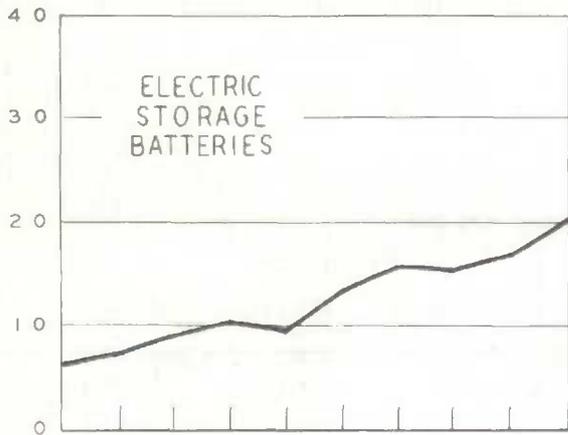
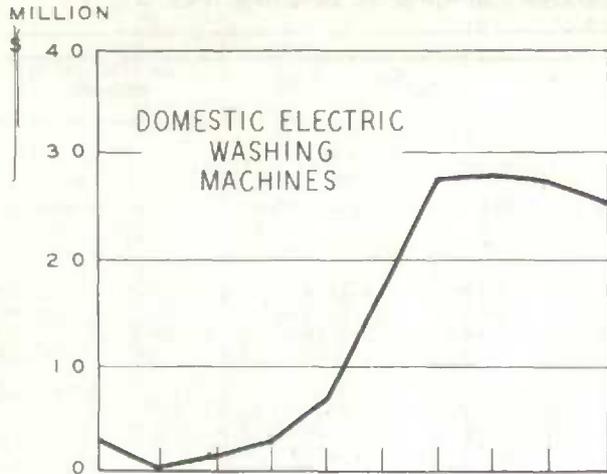
TABLE 5. Materials Used in the Electrical Apparatus and Supplies Industry, 1950 and 1951
Continued

Material	1950		1951	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Battery boxes and containers.....	—	2,221,968	—	2,463,127
Brass and bronze:				
Castings.....	lb. 1,608,762	819,357	2,183,803	1,325,659
Ingots.....	lb. 849,957	188,472	1,259,359	402,885
Rods and bars.....	lb. 4,103,347	1,356,126	5,913,908	2,312,196
Tubing and pipe.....	lb. 320,910	159,998	387,621	199,388
Sheets and plates.....	lb. 2,553,395	980,968	4,073,993	1,744,502
Scrap.....	lb. 132,106	13,128	183,771	32,833
Other.....	—	1,276,868	—	1,863,456
Carbon plates, blanks, etc.....	—	252,946	—	281,273
Carbon brushes.....	—	107,217	—	70,786
Carbon electrodes.....	—	220,494	—	202,067
Chalk or whiting.....	lb. 1,526,945	25,485	1,332,629	19,428
China clay (kaolin).....	tons	No separate data	4,253	142,593
Copper:				
Castings.....	lb. 298,680	114,027	467,829	219,643
Ingots, slabs, wire bars, etc.....	lb. 535,737	171,956	1,545,392	620,376
Rods.....	lb. 105,198,389	25,918,540	24,817,176	36,711,342
Scrap.....	lb. 89,983	13,502	32,608	6,596
Sheets and plates.....	lb. 3,643,158	1,335,465	5,789,475	2,411,272
Tubing and pipe.....	lb. 2,514,659	1,277,439	2,920,406	1,564,134
Wire, bare.....	lb. 6,296,362	1,775,447	4,620,177	1,529,868
Wire, enamelled.....	lb. 10,426,090	3,488,064	9,617,866	4,396,956
Wire, other insulated.....	—	4,381,263	—	5,582,288
Other.....	—	562,262	—	983,741
Cotton and linen sheets, tapes, etc.....	—	3,283,926	—	4,473,544
Glass bulbs, tubing and cane.....	—	2,222,976	—	2,193,115
Insulating varnishes and japans.....	—	883,831	—	1,090,781
Insulating waxes.....	—	747,495	—	489,734
Insulators, porcelain.....	—	2,029,871	—	2,164,906
Iron and steel (except alloy):				
Pig iron.....	Net tons 8,535	422,652	9,100	515,065
Iron castings.....	Net tons 7,797	2,719,030	11,306	3,713,928
Steel bars.....	Net tons 13,827	1,775,615	16,400	2,362,961
Steel castings.....	Net tons 1,792	620,273	1,142	700,208
Steel forgings.....	Net tons 880	319,938	1,525	754,260
Steel rods.....	Net tons 4,494	1,078,599	8,614	1,188,294
Iron and steel pipe.....	—	3,018,249	—	2,677,973
Steel strips.....	Net tons 13,341	2,651,995	12,665	2,583,497
Steel sheets.....	Net tons 81,689	11,991,712	78,505	14,397,115
Steel wire.....	Net tons 12,249	1,949,840	14,813	2,597,029
Structural steel.....	Net tons 10,348	1,439,900	13,164	1,969,932
Steel stampings.....	—	1,426,307	—	2,577,776
Bolts, nuts and screws.....	—	1,884,534	—	2,560,267
Scrap iron and steel.....	Net tons 4,491	148,640	4,810	192,939
Other iron and steel.....	—	912,571	—	907,243

TABLE 5. Materials Used in the Electrical Apparatus and Supplies Industry, 1950 and 1951
Concluded

Material	1950		1951	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Alloy steel:				
Carbon and alloy tool steel, including high speed Net tons	—	367,721	—	298,396
Stainless	—	675,115	—	1,274,093
Silicon sheets and strips	Net tons 21,083	5,357,193	30,747	7,718,582
Other alloy steel	—	148,838	—	445,207
Lead:				
Pig (pure)	lb. 40,479,222	5,597,177	41,040,084	7,151,512
Antimonial	lb. 27,322,903	4,154,842	27,508,064	6,071,592
Scrap	lb. 107,702	7,407	64,362	4,758
Other	—	148,120	—	292,345
Lead oxide (litharge and red lead)	lb. 5,292,832	867,747	6,139,319	1,222,641
Lumber	M bd. ft. 12,926	1,206,069	17,040	1,890,974
Magnesium	lb. No separate data		19,068	18,416
Manganese dioxide	lb. 8,971,138	355,655	7,632,678	318,626
Mercury	lb. 6,534	12,778	19,362	44,441
Mica	lb. 485,602	780,598	737,030	1,176,294
Nickel-silver, all forms	—	182,860	—	289,383
Nitrogen	cu. ft. 2,188,214	28,361	2,370,773	37,853
Oil:				
Transformer	Imp. gal. 2,657,933	1,000,685	2,768,377	1,011,746
Switch	Imp. gal. 8,584	4,960	3,426	2,486
Paints, stains, lacquers, etc.	—	2,474,291	—	2,339,904
Radio cabinets	—	5,887,317	—	5,905,126
Radio parts for assembling	—	15,710,306	—	17,557,820
Radio tubes purchased and used to equip radio receiving sets made by manufacturer in own plant	No. 5,268,964	3,419,100	4,894,621	3,915,539
Refrigerator cabinets	—	1,769,063	—	1,566,141
Rubber:				
Crude	lb. 903,453	227,848	800,435	493,309
Other	—	1,662,709	—	2,229,961
Resistance wire	—	826,065	—	915,362
Silk, artificial	lb. 190,359	311,229	209,039	312,680
Silver	Troy oz 67,616	72,962	72,971	86,966
Steel tanks	No. —	877,064	—	1,214,520
Sulphuric acid, 100%	lb. 11,425,758	168,831	10,571,669	172,991
Talc	lb. 950,596	10,349	1,281,752	24,609
Tin	lb. 275,361	271,078	234,725	352,900
Tungsten wire	—	208,204	—	331,686
Wood battery separators	—	993,949	—	948,513
Zinc:				
Ingots and bars	lb. 5,836,101	881,275	7,186,634	1,436,889
Sheets and strip	lb. 2,154,263	399,208	2,195,253	575,457
Other	—	533,552	—	1,030,531
Zinc chloride	lb. 1,561,576	74,628	1,044,853	78,867
Electric motors, purchased	—	2,018,732	—	2,273,267
All other materials	—	100,402,048	—	114,119,120
Containers and packing material	—	5,550,593	—	5,553,102
Total Materials	—	260,306,027	—	316,561,307

PRODUCTION*
IN
CANADA
FROM
ALL INDUSTRIES
OF
SPECIFIED ELECTRICAL
PRODUCTS
1942-1951



* PRODUCTION = SELLING VALUE AT WORKS.

TABLE 6. Production¹ of Electric Generators and Parts, 1950 and 1951

	Number	Total rating	Selling value at works
1950			
A.C., 1000 k.v.a. and under:			\$
500 r.p.m. and above.....	131	14,798 k. v. a.	500,078
Under 500 r.p.m.....	3	3,250 k. v. a.	89,000
A.C., 1001 k.v.a. and above, all speeds.....	28	847,837 k. v. a.	10,999,196
D.C. and including exciters:			
½ k.w. and ¾ k.w.....	60	45 k. w.	7,248
1 k.w. to 1000 k.w.....	460	6,496 k. w.	265,793
1001 k.w. and over.....	1	1,750 k. w.	45,100
Accessories and parts for generators.....	—	—	437,890
Total	—	—	12,344,305
1951			
A.C., 1000 k.v.a. and under:			
500 r.p.m. and above.....	141	33,932 k. v. a.	500,174
Under 500 r.p.m.....	8	6,750 k. v. a.	89,800
A.C., 1001 k.v.a. and above, all speeds.....	34	851,037 k. v. a.	14,797,673
D.C. and including exciters:			
½ k.w. and ¾ k.w.....	24	10 k. w.	1,850
1 k.w. to 1000 k.w.....	413	8,557 k. w.	487,941
1001 k.w. and over.....	8	11,000 k. w.	322,975
Accessories and parts for generators.....	—	—	579,158
Total	—	—	16,779,571

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

TABLE 7. Production of Electric Motors and Parts, 1950 and 1951 (From All Industries)

	Number	Total rating	Selling value at works
1950			
Single phase, induction:		H.P.	\$
⅓ h.p. and under ¹	1,115,015	244,803	13,761,670
½ h.p. and ¾ h.p.....	43,155	24,697	1,995,760
1 h.p. to 5 h.p., inclusive.....	18,460	33,879	1,561,067
Polyphase, induction:			
⅓ h.p. and under ¹	5,281	1,762	179,425
½ h.p. and ¾ h.p.....	11,858	7,711	558,073
1 h.p. to 5 h.p., inclusive.....	45,112	117,737	4,140,703
D.C.:			
⅓ h.p. and under ¹	443,830	15,015	1,258,198
½ h.p. and ¾ h.p.....	467	263	35,028
1 h.p. to 5 h.p., inclusive.....	258	586	49,056
Polyphase, induction:			
6 h.p. to 25 h.p., inclusive.....	17,661	187,838	3,176,723
26 h.p. to 100 h.p., inclusive.....	2,951	144,733	2,063,698
101 h.p. to 200 h.p., inclusive.....	335	49,380	949,356
201 h.p. and over.....	83	24,267	368,243
D.C.:			
6 h.p. to 25 h.p., inclusive.....	167	2,049	126,678
26 h.p. to 100 h.p., inclusive.....	151	7,398	271,240
101 h.p. to 200 h.p., inclusive.....	8	1,200	16,640
201 h.p. and over.....	3	6,600	55,840
Railway and vehicle motors, A.C. and D.C.	766	258,155	3,064,940
Shaded pole type motors, all ratings.....	86,599	—	392,298
Universal type motors, all ratings.....	63,294	—	398,382
Synchronous motors and condensers:			
1000 h.p. or k.v.a. and under.....	132	47,926 k. v. a.	893,643
1001 h.p. or k.v.a. and over.....	13	80,150 k. v. a.	1,981,472
Accessories and parts for motors.....	—	—	2,691,978
Total	—	—	39,990,111

1. Does not include shaded pole or universal motors.

TABLE 7. Production of Electric Motors and Parts, 1950 and 1951 (From All Industries) -- Concluded

	Number	Total rating		Selling value at works
		H.P.		\$
1951				
Single phase, induction:				
$\frac{1}{3}$ h.p. and under ¹	949,454	249,452		14,243,943
$\frac{1}{2}$ h.p. and $\frac{3}{4}$ h.p.	61,515	36,515		2,376,108
1 h.p. to 5 h.p., inclusive	19,304	35,016		1,739,456
Polyphase, induction:				
$\frac{1}{3}$ h.p. and under ¹	7,229	1,904		236,242
$\frac{1}{2}$ h.p. and $\frac{3}{4}$ h.p.	14,032	7,974		650,395
1 h.p. to 5 h.p., inclusive	49,939	137,195		4,944,090
D.C.:				
$\frac{1}{3}$ h.p. and under ¹	414,133	6,546		1,362,230
$\frac{1}{2}$ h.p. and $\frac{3}{4}$ h.p.	290	174		19,659
1 h.p. to 5 h.p., inclusive	173	410		41,803
Polyphase, induction:				
6 h.p. to 25 h.p., inclusive	19,184	212,204		3,751,437
26 h.p. to 100 h.p., inclusive	5,082	240,085		3,450,023
101 h.p. to 200 h.p., inclusive	504	74,432		950,743
201 h.p. and over	234	74,498		1,188,515
D.C.:				
6 h.p. to 25 h.p., inclusive	123	1,844		135,379
26 h.p. to 100 h.p., inclusive	59	3,057		165,025
101 h.p. to 200 h.p., inclusive	19	3,100		171,365
201 h.p. and over	9	19,900		856,609
Railway and vehicle motors, A.C. and D.C.	856	222,313		3,017,286
Shaded pole type motors, all ratings	219,130	—		934,182
Universal type motors, all ratings	104,516	—		462,411
Synchronous motors and condensers:				
1000 h.p. or k.v.a. and under	196	63,858 k. v. a.		1,153,330
1001 h.p. or k.v.a. and over	13	55,510 k. v. a.		1,386,059
Sets of rotors and stators for hermetically sealed refrigeration units, all ratings	—	—		2,771,424
Accessories and parts for motors	—	—		—
Total	—	—		46,007,714

1. Does not include shaded pole or universal motors.

TABLE 8. Production of Transformers, by Types, 1950 and 1951

Type	1950			1951		
	Number	Total rating	Selling value at works	Number	Total rating	Selling value at works
		k. v. a.	\$		k. v. a.	\$
Distribution transformers, 200 k. v. a. and under, and 15,000 volts and below	44,871	—	9,859,721	66,777	1,033,697	15,939,673
Power transformers, 201 k. v. a. to 7,500 k. v. a., inclusive, and over 15,000 volts to and including 132,000 volts	1,141	—	8,690,681	1,163	1,418,132	8,088,506
Power transformers, over 7,500 k. v. a. or over 132,000 volts	142	3,911,129	10,409,281	151	3,915,800	11,363,574
Feeder regulators:						
Induction type	22	2,185	110,114	—	—	747,669
Step voltage type	177	—	857,470	—	—	972,018
Current transformers	12,468	—	872,378	18,312	—	964,089
Potential transformers	3,890	—	558,012	—	—	412,377
Constant current transformers	83	—	64,939	—	—	—
Luminous tube transformers	30,121	—	545,647	37,498	—	601,447
Ignition transformers	115,420	—	1,230,855	114,584	—	1,109,599
Radio transformers	551,688	—	505,150	798,066	—	922,243
Fluorescent transformers and ballasts	760,291	—	3,179,924	815,606	—	3,820,334
All other transformers	—	—	1,419,114	—	—	2,112,395
Parts and supplies	—	—	595,651	—	—	1,232,629
Total	—	—	38,898,937	—	—	48,286,553

TABLE 9. Production of Conduit¹ for Electrical Wiring, 1950 and 1951

Item	1950		1951	
	Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$
Rigid conduit:				
Iron	28,616,000 lb.	4,035,937	29,212,000	4,137,624
Electrical metallic tubing	2,557,000 lb.	668,167	2,926,000	774,671
Flexible conduit (steel and non-metallic)	2,334,693 ft.	121,984	2,756,358	191,179
Total	-	4,826,088	-	5,103,474

1. Does not include aluminum conduit.

TABLE 10. Production of Electrical Switch Gear and Protective Equipment (Except telephone switchboards) 1950 and 1951

Item	Selling value at works	
	1950	1951
	\$	\$
Switchboard panels and equipment	9,349,198	10,428,368
Panel boards and cabinets	3,151,957	5,312,970
Lightning arresters, other than radio:		
15,000 volts and under	378,061	513,260
Over 15,000 volts	351,276	430,633
Power circuit breakers	6,792,484	5,290,309
Low voltage air circuit breakers	2,041,437	2,970,933
Disconnecting switches:		
Up to and including 15,000 volts	868,680	948,630
Over 15,000 volts	1,187,427	1,591,385
Switches, enclosed safety type	3,282,835	4,676,508
Generator voltage regulators and accessories	183,742	244,749
Current limiting apparatus	205,657	128,212
Relays	603,692	907,612
Parts and supplies for above	509,613	909,313
Other protective equipment	1,134,913	1,273,338
Total	30,040,972	35,626,220

TABLE 11. Production of Electric Vacuum Cleaners and Parts, 1942-1951 (From all Industries)

Year	Floor models ¹		Cylinder models		Hand models		Attachments and parts		Total	
	Number	\$	Number	\$	Number	\$	Number	\$	Number	\$
1942	34,547	1,306,686			487	9,943	-	245,674	-	1,562,303
1943	2,577	79,850			1,586	18,662	-	143,379	-	241,891
1944	1,403	30,955			494	6,037	-	227,406	-	264,398
1945	14,220	580,542			-	-	-	345,942	-	926,484
1946	24,274	1,229,992	31,247	1,158,844	-	-	-	731,038	-	3,119,874
1947	42,748	2,198,136	62,547	2,610,013	-	-	-	1,014,807	-	5,822,956
1948	33,583	1,992,757	85,002	4,008,347	1	19	-	825,881	-	6,827,004
1949	34,308	1,985,022	106,952	5,021,712	Not available for publication		-	1,105,210 ²	-	8,111,944
1950	43,075	2,337,136	109,395	5,161,920	for publication		-	1,271,363 ²	-	8,770,419
1951	39,170	2,121,966	90,837	5,587,627	5,145	93,420	-	1,114,719	-	8,917,732

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

TABLE 12. Production of Dry Cell Batteries, 1950 and 1951

Type		Quantity	Selling value at works
			\$
1950			
Dry cell:			
6 inch batteries	No. of cells	2,624,585	1,061,414
Radio batteries for portable sets	" "	15,514,944	814,125
Radio batteries for non-portable sets	" "	53,594,834	4,387,535
Flashlight batteries	" "	33,110,118	2,316,529
Hearing-aid batteries:			
"A" batteries	No. of cells	919,145	98,694
"B" batteries	" "	1,452,095	69,081
All other dry batteries	" "		
Total		-	8,747,378
1951			
Dry cell:			
6 inch batteries	No. of cells	1,977,940	996,195
Radio batteries for portable sets	" "	13,851,193	725,117
Radio batteries for non-portable sets	" "	39,178,105	3,558,226
Flashlight batteries	" "	45,727,144	3,402,069
Hearing-aid batteries:			
"A" batteries	No. of cells	876,701	97,532
"B" batteries	" "	2,272,418	124,004
All other dry batteries	" "		
Total		-	8,903,143

TABLE 13. Production of Electric Storage Batteries, by Types, 1950 and 1951

Type	1950		1951	
	Number	Selling value at works	Number	Selling value at works
		\$		\$
For internal combustion engine starting and ignition	1,657,660	14,330,087	1,611,229	16,556,947
For farm lighting plants (cells)	30,043	318,196	27,062	281,853
For railway service (cells)	16,061	622,795	20,466	862,715
For all other purposes	45,829	1,834,204	54,331	2,498,288
Total	-	17,105,282	-	20,199,803

TABLE 14. Production of Complete Radio Receiving Sets, 1942-1951

Year	Number of sets	Selling value at works	Year	Number of sets	Selling value at works
		\$			\$
1942	177,149	4,682,401	1947	984,276	33,063,220
1943	979	18,840	1948	639,493	25,411,443
1944	-	-	1949	791,051	29,411,911
1945	50,317	979,173	1950	820,772	33,497,785
1946	603,199	15,759,724	1951	628,395	29,635,311

TABLE 15. Production of Television Sets, 1948-1951

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

TABLE 16. Production of Radio Receiving Tubes, 1942-1951

Year	Number	Selling value at works	Year	Number	Selling value at works
		\$			\$
1942.....	3,442,352	1,277,862	1947.....	7,985,211	3,747,175
1943.....	4,106,047	2,256,086	1948.....	4,040,949	1,831,036
1944.....	5,904,517	3,746,266	1949.....	4,682,943	2,787,421
1945.....	5,679,037	3,280,500	1950.....	8,181,925	4,964,463
1946.....	5,933,363	2,438,268	1951.....	9,976,801	5,215,684

TABLE 17. Production of Electric Flat Irons, 1942-1951

Year	Steam		Automatic		Not automatic		Total	
	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works
		\$		\$		\$		\$
1942.....			27,207	120,009	106,579	267,407	133,786	387,516
1943.....			11,795	70,698	48,688	141,853	60,483	212,551
1944.....			1,720	25,074	111,764	283,027	113,484	308,101
1945.....		Not available	52,268	237,420	126,991	357,717	179,259	595,137
1946.....		according to this	208,476	1,273,007	293,247	875,595	501,723	2,148,602
1947.....		breakdown	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

TABLE 18. Production of Electric Toasters, 1942-1951

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
		\$		\$		\$		\$		\$
1942.....									131,327	349,784
1943.....				Not available					7,788	52,476
1944.....				according to this					6,981	44,785
1945.....				breakdown					142,044	493,248
1946.....	—	—	321,648	987,287	9,735	46,920	295	10,230	331,678	1,044,437
1947.....	1,183	17,816	275,467	1,011,548	35,014	174,265	1,023	13,886	312,687	1,217,515
1948.....	22,918	224,392	189,839	1,070,654	47,763	276,377	5,581	25,184	266,101	1,596,607
1949.....	53,885	756,764	261,928	1,182,910	67,263	447,593	1,021	29,048	384,097	2,416,315
1950.....	52,424	686,852	228,021	869,703	46,225	267,508	258	10,605	326,928	1,834,668
1951.....	39,031	591,031	168,576	716,763	33,667	197,860	793	42,724	242,067	1,548,378

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

TABLE 19. Production of Electric Lamps (Bulbs), 1942-1951

Year	Incandescent type				Fluorescent type	
	Standard size		Miniature size		All sizes	
	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works
		\$		\$		\$
1942	40,982,505	6,631,613	27,159,064	1,405,313	Not collected separately	
1943	35,334,233	5,618,011	21,737,956	1,220,676		
1944	39,298,127	4,922,362	19,522,020	1,049,025	736,535	346,691
1945	44,397,206	5,628,626	20,216,048	1,151,350	1,509,555	696,291
1946	49,174,360	6,553,989	30,973,583	1,454,748	2,018,658	1,090,062
1947	53,990,563	7,172,059	38,580,950	1,768,405	2,899,330	1,522,527
1948	53,104,627	7,547,409	40,363,003	1,951,320	3,984,900	2,422,940
1949	54,793,834	7,823,042	34,380,250	2,253,262	5,359,484	3,383,134
1950	70,668,414	10,858,991	32,418,426	2,512,041	5,138,552	4,110,949
1951	60,499,640	9,715,612	33,506,684	2,461,287	5,262,530	3,252,267

TABLE 20. Production of Electrical Wires and Cables, 1950 and 1951 (From all Industries)

Item	Selling value at works	
	1950	1951
	\$	\$
Un-insulated conductors:		
Copper, copperweld, including trolley wire.....	9,477,886	13,464,359
Copperweld-copper composite conductors and C.C.S.R.	590,517	638,896
Aluminum and A.C.S.R. conductors and aluminum alloys.....	10,428,332	13,546,689
Brass and bronze wires and cables	757,879	1,244,555
Galvanized steel conductors	300,981	258,970
Weatherproof wires. (All types).....	7,078,687	11,215,666
Rubber-insulated and braided. (Type R, RP, RH, RW, high voltage, inner member, aircraft, automobile, non-metallic underground, plain R.C., service entrance cable, all other R.C. types, n.o.p.).....	7,623,918	9,662,734
Cambric-insulated and braided. (All types where V.C. is used as the insulant)	683,357	1,089,612
Thermo-plastic wires and cables. (All types except telephone wires and cables)	5,621,496	8,241,920
Rubber-insulated leaded power cable. (Including armoured cable of this type and L.C. control cable)	1,654,769	2,303,020
Cambric-insulated leaded power cable (including armoured cable of this type)	631,761	918,693
Paper-insulated leaded power cable (including armoured cable of this type)	3,085,849	5,090,190
Rubber-insulated telephone wires (Including PVC) (drop, duct, inside, station, bridle, etc.)	3,211,017	3,415,223
Paper-insulated telephone cable (including armoured cable of this type)	9,659,788	12,783,322
Flexible cords (except telephone and switchboard) including jacketed types	3,080,842	3,968,179
Flexible armoured cable (AC and ACL)	3,711,147	4,401,182
Signal and control cable, non-leaded	352,482	717,037
Non-metallic sheathed cables	6,887,348	6,675,849
Magnet wires:		
Enamelled	7,382,018	9,840,115
All others	3,213,594	4,492,777
Asbestos-insulated (all types)	1,031,056	1,473,501
Cord assemblies	1,503,158	1,683,609
All other types of wire and cable	2,891,054	6,642,426
Total	90,858,936	123,768,524

TABLE 21. Factory Sales of Stoves Made in Canada, 1949-1951 (Data Assembled from all Industries)

		1949	1950	1951
Coal, wood and sawdust burning cooking stoves and ranges, including ranges with gas or electric extension	No.	114,749	92,968	69,134
	\$	9,295,200	8,057,632	6,592,378
Coal, wood and sawdust burning heating stoves and space heaters, including all heaters, circulators, Quebec, box, oak, Franklin, globular and laundry	No.	128,679	117,553	90,115
	\$	2,093,163	2,046,400	1,829,538
Solid fuel and gas combination or oil and gas combination (not including stoves or ranges with gas extension)	No.	11,313	12,330	10,377
	\$	1,292,254	1,483,897	1,453,257
Solid fuel and electric combination or oil and electric combination (not including stoves or ranges with electric extension)	No.	5,155	10,752	6,817
	\$	824,456	1,515,821	1,074,234
Gas cooking stoves and ranges (not combinations), including all styles with ovens	No.	53,779	50,751	33,731
	\$	4,851,380	4,641,707	3,360,850
Gas heating stoves and space heaters	No.	15,439	11,985	12,380
	\$	356,365	315,771	394,365
Gas cooking plates - no oven	No.	10,230	3,713	1,883
	\$	36,745	49,300	24,434
Electric cooking stoves or ranges (over 35 amperes), all styles with ovens	No.	135,810	160,382	131,854
	\$	19,472,494	23,491,183	21,105,110
Electric rangettes, including cord attachment and oven as one unit	No.	61,692	50,722	37,021
	\$	2,321,702	1,677,200	1,388,544
Electric cooking plates and grills, including stoves for glass coffee makers	No.	245,584	256,493	194,030
	\$	1,246,156	1,031,968	1,100,113
Oil (kerosene) and gasoline cooking stoves and ranges	No.		43,649	64,626
	\$		315,534	632,966
Oil (kerosene) and gasoline heating stoves and space heaters	No.		-	1,803
	\$	182,696	-	27,766
Fuel oil (distillate) cooking stoves and ranges	No.	2,894,026	10,519	12,748
	\$		680,197	537,165
Fuel oil (distillate) heating stoves and space heaters	No.		62,504	67,506
	\$		2,689,205	3,487,761
Total	\$	44,683,941	47,995,815	49,669,988

TABLE 22. Production of Electric Welding Apparatus and Welding Rod¹, 1942-1951

Year	Welding apparatus		Welding rod ²	
	Electric arc welding equipment with controls	Other electric welding apparatus	Quantity	Value of sales
	\$	\$	Tons	\$
1942	1,205,502	109,083		
1943	1,076,250	87,139		
1944	546,521	145,601		Not available separately
1945	674,478	205,600		
1946	713,308	173,006		
1947	579,321	226,016	8,951	1,880,014
1948	764,033	232,215	10,494	2,315,402
1949	740,797	243,107	9,277	2,399,825
1950	894,397	108,406	10,436	2,708,819
1951	1,384,136	100,108	11,183	3,344,755

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

2. Factory sales.

TABLE 23. Production of Industrial Control Equipment, 1950 and 1951

Item	Selling value at works	
	1950	1951
	\$	\$
Starting and control equipment for electric railway and vehicle motors	780, 207	1, 027, 842
(a) A.C. reduced voltage starters, manual and magnetic, for use with squirrel cage induction motors	443, 189	545, 113
A.C. manual starting switches for use with single phase and polyphase induction motors ..	375, 285	630, 283
A.C. magnetic control (exclusive of magnetic type in items (a) and (b)).....	638, 317	990, 499
Synchronous motor starters, all types	157, 603	248, 785
D.C. magnetic control, including D.C. magnetic switches (line starters).....	320, 485	434, 112
(b) A.C. magnetic switches (line starters)	2, 239, 097	4, 272, 923
A.C. control centres (assemblies of A.C. magnetic switches).....	455, 899	430, 821
A.C. and D.C. drum switches and resistors for use with drum switches	127, 202	125, 742
A.C. and D.C. dial starters, rheostats and resistors other than those used with drum switches	149, 046	243, 793
A.C. and D.C. brakes	123, 323	212, 239
All other industrial control, including accessories	1, 997, 893	1, 871, 772
Total	7, 807, 546	11, 033, 924

TABLE 24. Total Production of Domestic Water Tank Heaters, 1950 and 1951 (From all Industries)

Type	1950		1951	
	Number	Selling value at works	Number	Selling value at works
		\$		\$
Cast iron for coal, wood or oil (120 gallons or less)	4, 643	169, 263	2, 993	139, 087
Gas, automatic	17, 330	1, 184, 617	16, 400	1, 315, 980
Gas, not automatic	19, 660	230, 518	13, 901	183, 038
Electric, circulating type	38, 110	396, 373	42, 673	504, 286
Electric, immersion type	127, 979	544, 166	120, 647	470, 752
Clamp-on type	33, 977	152, 073	63, 449	228, 911
Electric, automatic storage tank type, including tank and controls	28, 316	2, 089, 063	31, 515	2, 275, 350
Total	270, 015	4, 766, 073	291, 578	5, 117, 404

TABLE 25. Production of Household Mechanical Refrigerators¹, 1942-1951

Year	Number	Selling value at works
		\$
1942.....	37, 792	4, 585, 701
1943.....	358	33, 470
1944.....	237	70, 690
1945.....	2, 418	355, 225
1946.....	56, 786	8, 597, 025
1947.....	108, 106	18, 584, 643
1948.....	138, 714	25, 164, 314
1949.....	206, 185	36, 736, 492
1950.....	341, 596	66, 225, 801
1951.....	277, 911	54, 547, 398

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

TABLE 26. Production of Refrigeration Equipment, 1951 (From all Industries)

Type	Number	Selling value at works	
		\$	
Household refrigerators:			
Household mechanical refrigerators, complete units (electric and gas), all sizes	277,911	54,547,398	
Household ice refrigerators - Metal	4,283	164,315	
- Wood	50	2,500	
Steel cabinets for mechanical refrigerators	62,099	1,326,490	
Self contained units:			
Milk coolers, all sizes	1,038	320,062	
Ice cream cabinets, all sizes	6,730	2,267,594	
Beverage coolers, all sizes	12,258	2,702,827	
Water coolers, all sizes	39	42,265	
Freezers - Frosted food cabinets	1,581	686,941	
Home freezers, all sizes	6,832	2,205,522	
Fixtures:			
Display cases, normal temperature	655	435,155	
Low temperature refrigerators	46	19,402	
Reach-in refrigerators (remote only)	301	135,236	
Sectional walk-in coolers, all types	342	234,393	
Self-contained commercial refrigerator products:			
Display cases, all sizes	2,133	1,349,339	
Reach-ins, all sizes	2,518	950,209	
Evaporators:			
Unit cooler type, all sizes	3,315	510,737	
Fin coils, all sizes	8,907	495,139	
Ice makers - Domestic	30,532	555,681	
All other sizes	-	97,260	
Compressors and condensing units:			
Domestic, for assembly in individual household cabinets	36,747	2,568,930	
Commercial - Low pressure	8,191	2,169,856	
Ammonia	58	200,190	
Evaporative condensers:			
Low pressure	2,401	230,612	
Ammonia	44	196,521	
All other refrigeration equipment	-	5,023,189	
Total	-	79,437,763	

TABLE 27. Production of Cutouts and Fuses, 1950 and 1951

Type	Selling value at works	
	1950	1951
	\$	\$
Primary cutouts:		
15,000 volts and less, except oil type	906,285	1,323,790
Over 15,000 volts, except oil type	89,856	87,910
Oil type		
Individual cutouts for cartridge and plug fuses	327,865	447,662
Cartridge fuses	270,512	453,321
All other fuses	1,436,177	1,827,448
Renewal elements for fuses	137,956	252,697
Total	3,168,651	4,392,828

TABLE 28. Production of Electric Lighting Fixtures, 1950 and 1951 (From all Industries)

Type	Selling value at works	
	1950	1951
	\$	\$
Residential:		
Incandescent	2,631,620	3,077,604
Fluorescent	419,735	501,498
Commercial and industrial:		
Incandescent	2,154,218	2,559,384
Fluorescent	9,632,908	11,599,830
Street-lighting	1,405,644	1,529,117
Searchlights and floodlights	354,995	544,450
Exterior lighting control devices and other lighting equipment ¹	1,726,107	2,215,588
Total	18,325,227	22,027,471

1. Does not include floor lamps or table lamps.

TABLE 29. Production of Wiring Devices, 1950 and 1951

Type	Selling value at works	
	1950	1951
	\$	\$
Sockets (lamp holders):		
Brass shell	455,885	504,010
Porcelain and moulded	902,489	1,281,176
Switches:		
Surface and flush types	1,074,097	1,155,037
Appliance	1,270,623	998,209
Canopy and pendant	106,247	25,323
All other	627,107	648,036
Receptacles (convenience outlets) single and duplex	1,180,865	1,270,816
Wall plates for switches and outlets	325,647	345,022
Attachment plugs, caps and cord connectors	348,802	440,576
Heater (or appliance) plugs and other plug devices	378,793	363,837
Cord sets (all types)	1,514,824	1,285,377
Outlet and switch boxes	2,030,584	3,052,887
Outlet box connectors	937,015	1,093,346
Other wiring devices (except automobile starting switches and time switches) ..	3,652,513	3,217,422
Total	14,805,491	15,681,074

TABLE 30. Production of Converter Equipment, 1950 and 1951

Type	Number	Total rating	Selling value at works
1950			
Motor-generator sets:			\$
A. C. to D. C.	95	19,094 k. w.	448,143
A. C. to A. C.	428	42,620 k. v. a.	2,196,662
Synchronous converters and double current generators	—	—	—
Dynamotors, balancer sets and boosters	—	—	—
Mercury arc rectifiers for power purposes	—	—	253,083
Parts and supplies for converter equipment	—	—	—
Total	—	—	2,897,888
1951			
Motor-generator sets:			
A. C. to D. C.	176	21,196 k. w.	1,250,489
A. C. to A. C.	17	7,553 k. w.	414,329
Synchronous converters and double current generators	—	—	—
Dynamotors, balancer sets and boosters	—	—	—
Mercury arc rectifiers for power purposes	—	—	2,466,703
Parts and supplies for converter equipment	—	—	—
Total	—	—	4,131,521

TABLE 31. Production of Pole Line Hardware, 1942-1951 (From All Industries)

Year	Selling value at works	Year	Selling value at works
	\$		\$
1942	2,133,225	1947	4,388,444
1943	1,102,705	1948	5,525,302
1944	1,098,582	1949	6,987,494
1945	1,408,991	1950	6,395,063
1946	2,908,760	1951	8,293,006

TABLE 32. Production of Domestic Washing Machines, 1942-1951 (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
		\$		\$		\$		\$		\$
1942	7,816	105,551			52,198	3,062,705	7,237	549,680	67,251	3,717,936
1943	7,789	98,200			5,373	336,300	38	3,323	13,200	437,823
1944	10,162	146,873			22,967	1,467,458	729	64,255	33,858	1,678,586
1945	9,753	129,353	1		44,809	2,974,767	5,346	432,642	59,908	3,536,762
1946	8,209	126,820			96,386	7,083,844	10,595	1,036,278	115,190	8,246,942
1947	6,225	100,017			193,168	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

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 in 1951 amounted to 2.751 units valued at \$145,261.

TABLE 33. Production of Domestic Electric Ironing Machines, 1942-1951 (From All Industries)

Year	Operated by own motor		Attached to washing machine		Total	
	Number	\$	Number	\$	Number	\$
1942	1,955	168,472	109	3,211	2,064	171,683
1943	77	5,973	1	25	78	5,998
1944	—	—	—	—	—	—
1945	9	1,030	—	—	9	1,030
1946	—	—	—	—	—	—
1947	7,923	529,231	—	—	7,923	529,231
1948	17,215	1,309,980	—	—	17,215	1,309,980
1949	18,058	1,349,433	—	—	18,058	1,349,433
1950	19,129	1,527,938	—	—	19,129	1,527,938
1951	10,142	895,429	—	—	10,142	895,429

TABLE 34. Production of Miscellaneous Electrical Appliances, 1949-1951

Year	Heating pads		Shavers		Food mixers		Electric blankets	
	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works
		\$		\$		\$		\$
1949	120,832	512,568	1	1	53,392	1,335,468	1	1
1950	143,613	539,092	170,611	1,908,927	78,303	1,929,135	1	1
1951	128,780	496,286	145,327	1,885,134	56,525	1,744,052	12,587	251,755

1. Not available.

TABLE 35. Imports and Exports of Specified Electrical Products, 1950 and 1951

Product	1950		1951	
	Number	Value	Number	Value
		\$		\$
(a) IMPORTS:				
Batteries for flashlights, and parts	—	11,141	—	141,753
Batteries, hearing-aid, and parts	—	285,465	—	340,579
Batteries, electric and galvanic primary, and complete parts, n.o.p.	—	193,917	—	493,401
Storage batteries, n.o.p., and parts, including separator walls of wood	—	677,823	—	764,028
Cleaners, electric vacuum.....	77,071	1,904,428	58,834	1,611,280
Cleaners, hand vacuum, and attachments, and complete parts of all vacuum cleaners	—	1,526,128	—	1,521,770
Cooking stoves, electric, valued at more than \$25 each	2,315	217,958	5,316	675,860
Space heating and cooking apparatus, electric, n.o.p.	—	1,694,048	—	1,816,535
Heating apparatus, electric, other than for cooking or space heating	—	628,741	—	886,064
Dynamos or generators, and parts	—	3,600,156	—	6,735,190
Fuses, fuse plugs and cutouts, electric, and complete parts, n.o.p.	—	450,749	—	891,658
Fluorescent tubes and other arc lamps	219,796	90,976	273,346	230,053

TABLE 35. Imports and Exports of Specified Electrical Products, 1950 and 1951 - Concluded

Product	1950		1951	
	Number	Value	Number	Value
		\$		\$
(a) IMPORTS - concluded:				
Lamps, electric, incandescent, carbon filament	8, 119	2, 187	20, 071	4, 370
Lamps, electric, incandescent, metal filament	4, 541, 906	289, 294	6, 766, 441	700, 790
Lights - electric, head, side and tail lights, n.o.p.; electric torches or flashlights and parts	-	736, 132	-	1, 020, 220
Electric light fixtures and appliances, n.o.p., and complete parts	-	3, 702, 775	-	4, 929, 131
Lightning arresters, choke coils, reactors and other protective devices, and complete parts, n.o.p.	-	168, 472	-	215, 088
Magnetos and complete parts, for the manufacture of internal combustion engines	-	97, 980	-	99, 440
Electrical instruments and apparatus of precision of a class or kind not made in Canada, as enumerated in tariff item 445n..	-	1, 960, 161	-	2, 563, 133
Meters, electric, and complete parts	-	969, 974	-	1, 689, 275
Motors, electric, valued at less than \$10 each	194, 333	695, 868	175, 133	749, 244
Motors, electric, n.o.p., valued at \$10 or over, and complete parts	-	10, 383, 443	-	15, 858, 976
Refrigerators, electric, domestic or store, completely equipped or not	11, 098	1, 555, 977	109, 624	17, 501, 816
Refrigerators, n.o.p., equipped or not	853	127, 518	4, 190	587, 519
Refrigerators, parts of	-	13, 669, 226	-	12, 530, 278
Rheostats, controllers and other starting and controlling devices, and parts, n.o.p.	-	6, 212, 186	-	8, 180, 805
Sad irons, electric, and parts	-	282, 901	-	252, 852
Self-contained lighting outfits and parts, n.o.p.	-	47, 614	-	90, 831
Sockets, outlets and receptacles and parts, n.o.p.	-	651, 131	-	1, 358, 007
Spark plugs, magnetos, n.o.p., and other ignition apparatus and parts	-	36, 115	-	72, 236
Switches, switchboards, n.o.p., circuit breakers and parts	-	5, 774, 577	-	8, 350, 725
Switch gear, flame proof, electric, for use underground in coal mines, and parts	-	69, 034	-	287, 992
Telegraph apparatus, electric, and parts	-	1, 336, 317	-	1, 822, 789
Telephone apparatus, electric, and parts	-	6, 904, 625	-	8, 207, 329
Transformers and parts, n.o.p.,	-	2, 124, 698	-	2, 749, 584
Washing machines, electric, domestic	1, 721	163, 568	4, 304	412, 757
Washing machines, domestic, parts of	-	2, 381, 905	-	2, 632, 185
Radio tubes	1, 811, 979	1, 653, 341	2, 575, 016	3, 352, 387
Radios, tourists' purchases	44, 124	1, 341, 204	46, 497	1, 574, 383
Radio receiving sets	2, 826	254, 004	9, 312	583, 084
Radio receiving sets, parts of, as enumerated in tariff item 445o	-	4, 159, 167	-	4, 054, 251
Radio tube parts as enumerated in tariff item 445p	-	1, 205, 263	-	1, 600, 050
Radio and wireless apparatus, electric, n.o.p.	-	9, 448, 800	-	13, 631, 516
Electric dry shaving machines, for use in removing human hair, and parts thereof	-	1, 225, 015	-	1, 227, 461
Electric steam turbo generator sets, 700 h.p. and greater, of a class or kind not made in Canada, and parts	6	3, 015, 889	7	6, 837, 235
Electric or gas welding apparatus, not including motors	-	3, 000, 056	-	4, 441, 134
Sound equipment	-	741, 337	-	1, 136, 300
Electrical apparatus, n.o.p., and parts	-	9, 477, 772	-	13, 552, 092
Total accounted for	-	107, 147, 056	-	160, 965, 436
(b) EXPORTS:				
Batteries, storage, and parts	-	448, 533	-	650, 263
Batteries and parts, n.o.p.	-	316, 186	-	1, 205, 410
Radio receiving sets (except batteries)	36, 837	1, 255, 861	35, 576	1, 200, 435
Radio and wireless apparatus, n.o.p. (except batteries)	-	2, 132, 834	-	2, 252, 921
Telegraph and telephone apparatus, n.o.p.	-	549, 238	-	874, 561
Transformers and parts	-	384, 643	-	2, 398, 589
Dynamos and generators, and parts	-	398, 354	-	1, 043, 992
Electric meters and parts	-	1, 940, 707	-	2, 380, 010
Electric motors and parts	161, 178	1, 503, 655	60, 535	1, 229, 324
Electric stoves and parts	1, 067	140, 968	2, 007	306, 528
Electric heating and cooking devices, domestic, n.o.p.	-	74, 364	-	22, 652
Spark plugs, magnetos and other ignition apparatus	-	852, 760	-	1, 594, 068
Switches, sockets and other wiring devices	-	157, 555	-	142, 034
Electric lamps and shades	-	21, 664	-	22, 812
Electric light fixtures and parts	-	48, 193	-	36, 640
Washing machines, domestic, electric	12, 601	1, 380, 422	19, 623	2, 059, 613
Electric vacuum cleaners and parts	142	15, 305	520	37, 934
Refrigerators, electric, and parts	2, 350	358, 255	3, 263	799, 896
Electrical apparatus, n.o.p.	-	1, 078, 435	-	2, 698, 248
Total accounted for	-	13, 057, 932	-	20, 955, 930

TABLE 36. Employees and Earnings in the Electrical Apparatus and Supplies Industry, by Provinces, 1950 and 1951

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				
						\$	\$	\$
1950								
Nova Scotia and Quebec	3,298	1,359	8,848	3,002	16,507	14,717,699	27,714,859	42,432,558
Ontario	6,706	3,110	23,583	9,229	42,628	29,919,046	80,623,270	110,542,316
Manitoba	114	37	301	180	632	439,989	750,132	1,190,121
Alberta	4	—	13	—	17	3,800	22,240	26,040
British Columbia	82	38	321	37	478	391,187	751,843	1,143,030
Canada	10,204	4,544	33,066	12,448	60,262	45,471,721	109,862,344	155,334,065
1951								
Nova Scotia and Quebec	3,665	1,505	9,931	3,625	18,726	17,663,126	35,327,455	52,990,581
Ontario	8,514	3,578	25,799	9,790	47,681	42,211,609	96,521,761	138,733,370
Manitoba	129	48	337	184	698	557,347	958,162	1,515,509
Alberta	3	1	11	1	16	10,639	27,338	37,977
British Columbia	90	32	357	26	505	481,412	990,189	1,471,601
Canada	12,401	5,164	36,435	13,626	67,626	60,924,133	133,824,905	194,749,038

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1951

Name of Firm	Location of Plant
(a) Batteries	
Quebec:	
Hart Battery Company Limited	170 St. George St., St. Johns
New Era Battery Company	2240 Bellechasse St., Montreal
Service Specialty Company Ltd.	1858 St. Luke St., Montreal
Ontario:	
Burgess Battery Company	415 Buttrey St., Niagara Falls
Exide Batteries of Canada Ltd.	153 Dufferin St., Toronto
General Dry Batteries of Canada Ltd.	228 St. Helen's Ave., Toronto
Gould Storage Battery Limited	P.O. Box 56, Kingston
Hay Battery Co., Limited, The	1122-24 Barton St. E., Hamilton
La Salle Lead Products Ltd.	680 Wyandotte St. E., Windsor
National Carbon Limited	805 Davenport Road, Toronto
Prest-O-Lite Battery Co. Ltd.	1352-60 Dufferin St., Toronto
Radium Battery	374 Barton St. E., Hamilton
Willard Storage Battery Co. of Canada Ltd.	269 Campbell Ave., Toronto
Manitoba:	
Globelite Batteries Limited	146 Alexander Ave., Winnipeg
Ray-O-Vac (Canada) Limited	Berry St. and Sargent, St. James
Alberta:	
Alberta Battery Company Ltd.	1312 Centre St. S., Calgary
Calgary Battery Co.	111-12th Ave. W., Calgary
British Columbia:	
Arrow Batteries	901 E. Hastings, Vancouver
Francis Battery Service	1412 Quadra St. W., Victoria
Giant Battery Co.	1249 Granville St., Vancouver
Globelite Batteries (B.C.) Limited	8650 Barnard St., Vancouver
International Battery Corp. Limited	1130 Richards St., Vancouver
Island Battery Service	116-2nd Ave., Port Alberni
Jones Bros. Batteries, Limited	1314 Quadra St., Victoria
Marshall Batteries Limited	532 E. Broadway St., Vancouver

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1951 - Continued

Name of Firm	Location of Plant
(b) Heavy Electrical Machinery and Equipment	
Quebec:	
Air Reduction Canada Limited..... Beaupre Engineering Works Co. Bepco Canada Ltd. Devoe Electric Switch Co. Ltd., The Electric Mfg. Co. Ltd. Electric Tapper & Equipment Co. of Canada Ltd. Electric Switchgear Ltd. Hughes, Benjamin, Electric Company Universal Wire & Cable Co. Ltd., The Veejo Metal Products White, T.N. & Sons Limited World Electric Products Ltd.	3081 Ontario St. E., Montreal 3935 Newmarch St., Verdun 4018 St. Catherine St. W., Montreal 475 Metropolitan Blvd., Lachine 4th St., Montmagny 2115 Workman St., Montreal 115 St. Denis Ave., St. Lambert, Montreal 12050 Reed St., Montreal 2155 Moreau St., Montreal 1945 Frontenac St., Montreal 471 De La Friponne St., Montreal 143 Lagauchetière St. W., Montreal
Ontario:	
Allanson Armature Mfg. Co. Ltd. Alliance Tool & Motor Co. Ltd., The Amalgamated Electric Corp. Ltd. Bepco Canada Limited Canadian Controllers Limited Canadian Electric Box Co. Ltd. Canadian General Electric Co. Ltd. Canadian General Electric Co. Ltd. Canadian Westinghouse Co. Ltd. Cansfield Electrical Works Limited Cooper Mfg. Co. Dominion Cutout Co. Limited Dominion Electric Mfg. Co. Ltd. Eastern Power Devices Limited Elora Industries Limited English Electric Company of Canada Ltd. Ferranti Electric Limited Fraser, D.M., Limited Hammond Manufacturing Co. Ltd. International Machinery Co. Jones & Moore Electric Co. Ltd. Leland Electric Canada Ltd. Lincoln Electric Co. of Canada Ltd. Lovatt Engineering Limited Moloney Electric Co. of Canada Ltd. Packard Electric Co. Limited Powerlite Devices Ltd. Redmond Motors of Canada Ltd. Reliance Electric & Engineering (Canada) Limited Robbins & Myers Co. of Canada Ltd., The Sangamo Company, Limited Shoe Machine Parts Ltd. Square D Company of Canada Limited Supreme Power Supplies Ltd.	21 McCaul St., Toronto Grand and Queensway, Toronto 384 Pape Ave., Toronto 33 Niagara St., Toronto 169 Eastern Ave., Toronto 1402 Queen St. E., Toronto 940 Lansdowne Ave., Toronto 107 Park St., Peterborough 286 Sanford Ave. N., Hamilton; Aberdeen Ave., Hamilton; Granby and Three Rivers, Quebec 260 Geary Ave., Toronto 1 Townes Rd., Etobicoke 250 Richmond St. W., Toronto 60 Leslie St., Toronto 29 Wabash Ave., Toronto Elora George Street, St. Catharines Industry St., Mount Dennis, Toronto 54-56 Lombard St., Toronto 40 Wellington St. W., Guelph 73 Robert St., Hamilton 296 Adelaide St. W., Toronto 50 Crimea St., Guelph 179 Wicksteed Ave., Leaside 3545 Danforth Ave., Toronto 213-219 Sterling Road, Toronto Race Street, St. Catharines 1870 Davenport Road, Toronto 121 Woodworth Ave., St. Thomas 130 Dennistoun St., Welland Morrell Street, Brantford 215 Laird Drive, Leaside, Toronto 60 Tecumseh St., Toronto Industry Street, Toronto Newcastle and Audley Sts., Mimico
Manitoba:	
Amalgamated Electric Corp. Ltd. Pioneer Electric Limited	677 Notre Dame Ave., Winnipeg 102 Herbert St., St. Boniface
British Columbia:	
Cemco Electrical Mfg. Co. Limited..... Electric Panel Manufacturing Ltd.	22 E. 5th Avenue, Vancouver 1250 Richards St., Vancouver

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1951 - Continued

Name of Firm	Location of Plant
(c) Radios and Radio Parts	
Nova Scotia:	
Cossor (Canada) Ltd.	301-303 Windsor St., Halifax
Quebec:	
Amplitrol Electronics Ltd.	844 William St., Montreal
Canadian Aviation Electronics Ltd.	8280 St. Lawrence Blvd., Montreal
Canadian Marconi Company	2440 Trenton Road, Montreal
Chaput, Paul, Limitée	2222 Ontario St. E., Montreal
Electrical Products Mfg. Co. Ltd.	5680 Fullum St., Montreal
Electrolabs Reg'd	7385 St. Lawrence Blvd., Montreal
Federal Electric Manufacturing Co. Ltd.	9600 St. Lawrence Blvd., Montreal
Monarch Radio Mfg. Co.	3839 Arcade St., Montreal
RCA Victor Company Limited	1001 Lenoir St., Montreal
Radio Communications Equipment & Engineering Ltd.	850 Fifth Ave., Lachine
Radio Engineering Products Ltd.	4305 Iberville St., Montreal
Television Radio Aerial Mfg. Co. Ltd.	5275 Cote St. Paul Rd., Montreal
Televox Systems Reg'd	154 St. Bernard St., Quebec
Ontario:	
Aerovox Canada Limited	1551 Barton St. E., Hamilton
Amplifier Co. of Canada	2001 Eglinton Ave. E., Scarborough
Arelco Limited	1160 Lakeshore Rd., Long Branch
Arrow Radio Company	1825 Davenport Rd., Toronto
Baldwin-International Limited	3006 Bloor St. W., Toronto
Cahoon, L.D., & Company Ltd.	2271 Danforth Ave., Toronto
Canadian Admiral Corp. Ltd.	501 Lakeshore Rd., Port Credit
Canadian Arsenals Limited, Instrument & Radar Division	Vanderhoof Ave., Leaside
Canadian Astatic Limited	2271-2273 Danforth Ave., Toronto
Canadian General Electric Co. Ltd.	830 Lansdowne Ave., Toronto
Canadian Radio Mfg. Corp. Ltd.	11-19 Brentcliffe Rd., Toronto
Cannon Electric Co. Ltd.	2451 Danforth Ave., Toronto
Capital Television Ltd.	2197 Gerrard St., Toronto
Copper Wire Products Ltd.	137 Oxford St., Guelph
Coronet Television Corporation	1801 Walker Rd., Windsor
Delhi Metal Products Co.	Waverly St., Delhi
Deseronto Electronics Limited	Main St., Deseronto
Dominion Electrohome Industries Ltd.	39 Edward St. and 480 Victoria St., Kitchener
Electronic Recorder Limited	351 Carlaw Ave., Toronto
Erie Resistor of Canada Ltd.	1151 Roselawn Ave., Toronto
Farley, T.S., Limited	174 Catherine St. N., Hamilton
General Radionics Limited	Municipal Airport, Hamilton
High Frequency Development Co. Ltd.	3565 Dundas St. W., Toronto
Industrial Electronics of Canada Limited	Islington
International Resistance Co. Ltd.	349 Carlaw Avenue, Toronto
Manning Radio Ltd.	2 Northview Terrace, Toronto
Marstrand Engineering Co.	154 Victoria St. S., Kitchener
McCurdy Radio Industries	74 York St., Toronto
Measurement Engineering Limited	Arnprior and Renfrew
Meredith, C.C., & Co., Limited	Queen N. and Elgin Sts., Streetsville
Micro Engineering Laboratory	3317 Dufferin St., Toronto
Northern Electric Co. Ltd.	250 Sidney St., Belleville
Philco Corporation of Canada Ltd.	1244 Dufferin St., Toronto
Pye Canada Limited	First Street, Ajax
Radio Condenser Co. Ltd.	6 Bermondsey Rd., Toronto
Radio Speakers (Canada) Ltd.	37 Hanna Ave., Toronto
Radio Valve Co. of Canada Ltd.	189 Dufferin St., Toronto
Smallwood, S.G., Limited	397 King St. E., Kitchener
Soundmaster Equipment	256 Kent St., Ottawa
Sparton of Canada Limited	Elm and Pine Sts., London
Speight, N.H., Laboratories	145 Wellington St. W., Toronto
Standard Radio Products	108 Sydney St., Kitchener
Stewart-Warner Alemitte Corp. of Canada Ltd.	MacDonald Avenue, Belleville
Stromberg-Carlson Co. Ltd.	211 Geary Ave., Toronto
Technical Industries Ltd.	62 Eugene St., North Park P.O.
Telecom Limited	93 Church St., Toronto
Tipping, Stanley, Esq.	36 Esgore Drive, Toronto
Transvision-Television (Canada) Ltd.	Hamilton
White Radio Limited	41 West Ave. N., Hamilton

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1951 - Continued

Name of Firm	Location of Plant
(c) Radio and Radio Parts - Concluded	
British Columbia:	
Barvic Engineering Limited	1285 Homer St., Vancouver
Chisholm Industries Limited.....	4515 Main St., Vancouver
Ekolite Limited.....	369 East Hastings St., Vancouver
Electronics Products Co., Ltd.	1569 West 6th Ave., Vancouver
Humble Manufacturing Co. Ltd.	1695 West 2nd Ave., Vancouver
Research Industries Limited.....	1667 West 4th Ave., Vancouver
West Coast Radio Telephone Mfg. Co.	1366 West Pender St., Vancouver
(d) Refrigerators, Vacuum Cleaners and Appliances	
Quebec:	
Canadian Armature Works	6595 St. Urbain St., Montreal
Canadian General Electric Company Ltd.	5781 Notre Dame St. E., Montreal
Colsan Limited	636 St. Paul St. W., Montreal
Danby Appliance Co., The	2157 St. Patrick St., Montreal
Electrolux (Canada) Limited.....	201 Laurier Ave. E., Montreal
Electro-Steam Manufacturing Co. Ltd.	5316 Park Ave., Montreal
Giant Electric Mfg. Co. Ltd.	40 Hurtubise Blvd., Montreal E.
Home Steel Products Co.	148 Port Royal W., Montreal
Imperial Electrical Products.....	3529 St. Lawrence Blvd., Montreal
Lalonde, Frank P., Ltd.	Dorval
Northern Machinery Company Ltd.....	184 St. Paul St. W., Montreal
Progress Restaurant & Equipment Mfg. Ltd.	4865 St. Lawrence Blvd., Montreal
Racine Mfg. Co.	Granby
Roy, E., Industries.....	L'Assomption
Saulnier & Frère Enrg.....	St. Paul
Wright, P.M., Electrical Co.	1327 Dorchester St. W., Montreal
Ontario:	
Addison Industries Limited.....	9-11 Hanna Ave., Toronto
Aero-Vent Electric Co. Ltd.	1104 Bay St., Toronto
Air-Coils Mfg. Co. Ltd.	29 Brock St. N., Oakville
Backer, C.B., Company Ltd.	25 Aberdeen St., Ottawa
Bersted Manufacturing Co. (Canada) Ltd.	75 Chisholm St. S., Oakville
Brantford Washing Machine Ltd.	1623 St. Clair Ave. W., Toronto
Brewes Electrical Mfg. Co.	84 Duchess St., Toronto
Bridges Manufacturing Co.	185 Bay St., Toronto
Brock Snyder Mfg. Co., The	21 John St., Grimsby
Canadian Curtis Refrigeration Co. Ltd.	20 St. George St., Hamilton
Canadian General Electric Co. Ltd.	80 Bradford St., Barrie
Canadian General Electric Co. Ltd.	224 Wallace Ave., Toronto
Carrier Engineering Ltd.	857 Queensway, Toronto
Chandler Electric Co.	21 Scott St., Toronto
Clyde Fans Limited	162 King St. E., Toronto
Continental Electric Co. Ltd.	310 Spadina Ave., Toronto
Domestic Electric Co.	272 Church St., Toronto
Domestic Refrigerator Assembly	80 Murray St., Hamilton
Dowe, Geo. P., Co. Ltd.	Stop 22A Yonge St., Richvale
Electric Magnetic Blanket Co.	52 King St. W., Cobourg
Electro-Sun Limited	3487 Dundas St. W., Toronto
Endress, George W., Co. Ltd.	186 Munro St., Toronto
Ever-Bright Ltd.	2700 St. Clair Ave. W., Toronto
Force Electric Products Limited.....	163 Church St., Acton
Frigidaire Products of Canada Ltd.	Commercial Road, Leaside
Gelling Industries Limited	201 Major St., Welland
Gilson Manufacturing Co. Ltd.	York Road, Guelph
Graham Metal Products Ltd.	Bishop St., Preston
Groh's Cooler Limited	Duke and Laurel Sts., Preston
Hanscraft (Canada) Limited	186 Munro St., Toronto
Hoover Company Ltd., The	Gage and Barton Sts., Hamilton
Hygrade Electric Mfg. Co.	841-843 College St., Toronto
Ireland Manufacturing Co.	93 Cannon St. W., Hamilton
Keep Rite Refrigeration Ltd.	44 Elgin St., Brantford
Kelvinator of Canada Ltd.	1152 Dundas St. E., London
Keystone Electric Limited	111 Adelaide St. W., Toronto
Knight Rebound Controllers Ltd.....	361 Jackson St. W., Hamilton
MacLeod, J.K., & Co. Ltd.	2 River St., Toronto
McCormack Smyth Ltd.	242 Mineola Road, Port Credit

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1951 - Continued

Name of Firm	Location of Plant
(d) Refrigerators, Vacuum Cleaners and Appliances - Concluded	
Ontario - Concluded	
National Electric Mfg. Co. Opal Manufacturing Co. Ltd. Pittsburg Water Heater Co. of Canada Power Appliances Mfg. Co. Premier Vacuum Cleaner Co. Ltd., The Pyrexon Ray Company Ltd. Redi-Heat Electric Company Ltd. Reed-Cameron Renfrew Electric & Refrigerator Co. Ltd. Rotor Electric Company Ltd. Samson United of Canada Ltd. Schultz Mfg. Co. Ltd. Sea Breeze Mfg. Ltd. Simms Motor Units of Canada Ltd. Standard Electric Ltd. Steam Electric Products Ltd. Sunbeam Corporation (Canada) Ltd. Superior Electrics Limited Taymouth Industries Ltd. Thermax Limited Triad Appliances Universal Cooler Co. Ltd. Vendall Limited Wood, W.C., Co. Ltd., The	280 Lansdowne Ave., Toronto 526 Bay St., Toronto Civic Airport, Hamilton 330 Adelaide St. W., Toronto 18 Ereadalbane St., Toronto 1254 Dundas St. W., Toronto Mill Street, Deseronto 516 Richmond St. W., Toronto Elizabeth Street, Renfrew 121 McCormack St., Toronto 69 Sherbourne St., Toronto 154-158 York St., Hamilton 114-116 Jarvis St., Toronto 88 Merton St., Toronto 897 Queen St. W., Toronto 220 Adelaide St. W., Toronto 321 Weston Road, Toronto Pembroke St. E., Pembroke Taymall Avenue, Toronto Orillia 130 Queen's Drive, Weston 145 Brant St., Brantford 2040 Euchanan Ave., Niagara Falls 123 Woolwich St., Guelph
Manitoba:	
A.B.C. Electric Limited Carter, J.B., Ltd., Electric & Heating Mfg. Division Coldstream Refrigerator Mfg. Ltd. Electric Heating & Manufacturing Co. Ltd. Red Devil Heating & Mfg. Co. Supreme Electric Appliances Ltd.	505 Sherburn St., Winnipeg 85 Water Ave., Winnipeg 166 Osborne St., Winnipeg 902 Home St., Winnipeg 272 Selkirk Ave., Winnipeg 1098 Winnipeg Ave., Winnipeg
Alberta:	
Stermac Ltd.	5915-104th St., Edmonton
British Columbia:	
Allied Engineering of B.C. Ltd. Sweden Freezer Mfg. Co. of Canada	Granville Island, Zone 1 1055 Vernon Dr., Vancouver
(e) Miscellaneous Electrical Products	
Quebec:	
Cables, Conduits & Fittings, Limited Canadian Cameo Chime Co. Ltd. Canadian General Electric Co. Ltd. Canadian Laco Lamps Limited Columbia Electric Limited Conduits National Company Ltd. Dave's Repair shop Dominion Electric Protection Co. Economy Fuse & Mfg. Co. of Canada Ltd. Edwards of Canada Limited Electrolier Manufacturing Co. Ltd. Flex-I-Con Mfg. Company Ltd. Gaymont Manufacturing Corp. Hale Brothers Limited Haliburton & White Limited Hi-Scale Products (Canada) Ltd. Iberville Fittings Limited L'Air-Liquide Society Lightcraft Ltd. Mid-Day Fluorescent Fixtures Inc. Nagels Art Metal Works Northern Electric Co. Ltd. Peerless Electric Limited Phillips Electrical Works Limited Rest-Glow Mfg. Co. Ltd. Rosemount Industries Co. Ltd. Saxe Bros. Inc.	69 Richelieu St., St. Johns 10332 Lille St., Montreal Centre Industriel No. 5, Quebec 745 Guy St., Montreal 261 Queen St., Montreal 10150 Notre Dame St. E., Montreal 24 Craig St. W., Montreal 2040 Clark St., Montreal 1030 St. Alexander St., Montreal 675 Butler St., Montreal 5849 Boyer St., Montreal 6155 Lafontaine St., Montreal 455 Craig St. W., Montreal 6222 Chambord St., Montreal 686 Notre Dame St. W., Montreal 7893 St. Lawrence Blvd., Montreal 167 First St., Iberville 5030 Rouen St., Montreal 263 Nazareth St., Montreal 931 Amherst St., Montreal 15-6th Ave., Ville St. Pierre, Montreal 1261 Shearer St., Montreal 5585 Fullum St., Montreal 5795 De Gaspé St., Montreal 6845 St. Urbain St., Montreal 2090 Moreau St., Montreal 6215 Henri Julien Ave., Montreal

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1951 - Continued

Name of Firm	Location of Plant
(e) Miscellaneous Electrical Products - Continued	
Quebec - Concluded	
Solex Company Ltd., The Standard Electric Time Co. of Canada Ltd. Sylvania Electric "Canada" Ltd. Temco Electric Mfg. Co. Val St. Laurent Crystal Co. Ltd.	280 Faillon St. W., Montreal 726 St. Felix St., Montreal 452 Heriot St., Drummondville 8045 Durocher Ave., Montreal 704 Notre Dame St. W., Montreal
Ontario:	
Allman Electric Ardron Mfg. Co. Ltd. Arrow-Hart & Hegeman (Canada) Ltd. Bach-Simpson Limited. Baden-Electric Fence Co. Bayly Engineering Ltd. Bell Electricord Company Boston Insulated Wire & Cable Co. Ltd. Branston, Chas. A., Limited Burger Lighting Equipment Co. Burke Electric & X-Ray Co. Ltd. Burndy Canada Ltd. C. & M. Products Ltd. Camesco Fluorescent Corp. Ltd. Campbell Electric Limited Canada Wire & Cable Co. Ltd. Canadian Electric Resistors Ltd. Canadian Fluorescent Light Co. Canadian General Electric Co. Ltd. Canadian General Electric Co. Ltd. Canadian Line Materials Ltd. Canadian Sterling Electric Ltd. Canadian Strobe & Electric Corp. Canadian Triangle Wire & Cable Co. Ltd. Chadwick-Carrol Brass & Fixtures Limited. Colonial Lighting Co., The Commercial Fixture Co. Ltd. Conduits National Company Ltd. Cords (Canada) Crouse-Hinds Company of Canada Ltd. Crown Electrical Mfg. Ltd. Cumberland Supply Co. Ltd. Curtis Lighting of Canada Ltd. Dalglish Electric Supply Dominion Carbon Brush Co. Ltd. Dominion Machine & Tool Co. Ltd. Electric Steam Radiator Co. Ltd. Electronic Associates Limited Epheta Mfg. Co. (Canada) Ltd. Etilin, H.B., Mfg. Co. Federal Wire & Cable Co. Ltd. Fleck, R.D., & Co. Ltd. Globe Electric Manufacturing Grotell Electric Hallman, J.C., Mfg. Co. Ltd. Hart Manufacturing (Canada) Ltd. Hastie & Dupuis Henderson Electric Co. Ltd. Holden Lighting Mfrs. Ltd. Industrial Wire & Cable Ltd. Kamro Lighting Products Kearney, James R., Corp. of Canada Ltd. Kenny Electrical Mfg. Co. Ltd. Kondu Mfg. Co. Limited Kruger Mfg. Company Landy, M.A., Co. Ltd. Line & Cable Accessories Ltd. Markel Electric Products Ltd. Marr Machine & Mfg. Co. Ltd. Merit Manufacturing Co. Metal Industries Limited Millard Electric Limited Mitchell Mfg. Co. Ltd. Morganite Carbon Products, Canada, Ltd.	342 Keewatin Ave., Toronto 9 Niagara St., Toronto Industry Street, Toronto 1255 Brydges St., London Baden 5 - 1st Street, Ajax 11 Watkinson Ave., Toronto 118 Shaw St., Hamilton 2508 Yonge St., Toronto 27 Sackville Place, Toronto 61-63 Yorkville Ave., Toronto 381 Greenwood Ave., Toronto 255 Raleigh Ave., Toronto 2382 Dundas St. W., Toronto 131 Clarence St., Brantford Laird Drive, Leaside Curity Ave., Toronto 62 Major St., Toronto 221 Dufferin St., Toronto Queen Elizabeth Highway, Oakville St. Clair Ave., Scarborough Junction 428 Cannon St. E., Hamilton 222 Front St. E., Toronto 4006 Dundas St. W., Toronto 365 Wilson St., Hamilton 608 King St., Port Colborne 2368 Dundas St. W., Toronto 33 Labatt Ave., Toronto 482 Wellington St. W., Toronto 7-21 Labatt Ave., Toronto 19 Sydenham St., Brantford Port Credit 195 Wicksteed Ave., Toronto 124 McNab St. N., Hamilton 250 Richmond St. W., Toronto 12 Bater Ave., Toronto 52 Dickens Ave., Toronto 2760 Yonge St., Toronto R.R. No. 6, Indian Creek Road, Chatham 1850 Wilson Ave., Toronto 265 Suffolk St., Guelph 184 Bond St. W., Oshawa 3011 Dundas St. W., Toronto 214 Ossington Ave., Toronto 41 John St. W., Waterloo 155 Edwards St., Aurora 259 Bradley Ave., Eastview 927 Dupont St., Toronto 11A Yorkville Ave., Toronto 35 Golden Ave., Toronto R.R. No. 1, Weston 3 Crawford St., Guelph 3705 Bathurst St., Toronto South Street, Preston 443 King St. W., Toronto 47 Lucy Ave., Toronto 347 Sorauren Ave., Toronto 23 Lewis St., Fort Erie 160 Perth Ave., Toronto 422 Wellington St., Toronto 24 Dunbar St., Hamilton 27 Cockburn St., Perth 19 Waterman Ave., Toronto 195 Eastern Ave., Toronto

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1951 - Concluded

Name of Firm	Location of Plant
(e) Miscellaneous Electrical Products - Concluded	
Ontario - Concluded:	
Nichols, R.H., Limited Noma Electric Co. of Canada, Ltd. Osborne Electric Co. Ltd. Paramount Electric Co. Pasteruray of Canada Ltd. Phillips Electrical Works Ltd. Pierce Fuse Corporation Ltd. Polytronics Co. Powertronic Equipment Limited Regent Equipment Mfg. Co. Ltd. Service Lamp Co. Ltd. Slater, N., Co. Ltd. Smith, Lawrence F., & Sons Smith & Stone Limited Stark Electronic Instruments Ltd. Sterne Equipment Co. Ltd. Swift Devices Limited Taylor Electric Mfg. Co. Ltd. Toronto Metal Spinning Ltd. Virden, John C., Limited Vulcan Electric Products Ltd. Wakfer Electronics Co. Ltd. Waldman, Harvey, & Co. Walker Metal Products Ltd. Wickett, Bradford J. Wilson, J.A., Lighting & Display Ltd. Wynston, A.L., Jr., Ltd.	2781 Dufferin St., Toronto Second Ave. and 14th St., Owen Sound 95 Wesley St., Etobicoke 182 Adelaide St. W., Toronto 102 Bay St. N., Hamilton Kingston Road, Brockville 210 Courtwright St., Fort Erie 582 Bathurst St., Toronto 50 Bermondsey Rd., Toronto 455 King St. W., Toronto 197 King St., London 2 Sydney St., Hamilton 530 Richmond St. W. (rear), Toronto Georgetown Stark Bldg., Ajax 152 Lappin Ave., Toronto 14 George St., Hamilton 625 Princess Ave., London 32 Eastern Ave., Toronto 35 Front St. E., Toronto 3160 Dundas St. W., Toronto 35 Cameron St., Dundas 52 Dickens Ave., Toronto 1500 Kildare Road, Walkerville 2792 Yonge St., Toronto 280 Lakeshore Rd., Toronto 14 251 Spadina Ave., Toronto
Manitoba:	
Advance Lighting Co. Canadian Lighting & Lamp Mfg. Co. Caswell, W.A. C.T. Electrical Controls Globe Electric Mfg. Co. Ltd. Ideal Electric Mfg. Co. Lighting Materials Ltd. L. & S. Electric Mfg. Ltd. Super-Lite Electric Mfg. Co. Ltd.	55 Myrtle St., Winnipeg 1456 Main St., Winnipeg 190 Chestnut St., Winnipeg 11th St. & Queens Ave., Brandon 573 Main St., Winnipeg 372 Selkirk Ave., Winnipeg 803 Erin St., Winnipeg 466-70 Ross Ave., Winnipeg 1465 Notre Dame Ave., Winnipeg
Alberta:	
Technical Enterprises	7603-104th St., Edmonton
British Columbia:	
Canada Wire & Cable Co. Ltd. Duck, John, & Son, Limited Electrical Industries Ltd. Freeman, W., & Son Lenkurt Electric Co. of Canada Ltd. Marine Electric Limited Rainbow Lighting Co. Ltd. Western Lighting Fixture Co. Ltd.	1494 Powell St., Vancouver 1246 Hornby St., Vancouver 550 Cambie St., Vancouver 275 Woodland Drive, Vancouver 926 East Hastings St., Vancouver 1703 W. Georgia St., Vancouver 3715 Commercial Drive, Vancouver 246 West Second Ave., Vancouver

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