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GOVERNMENT OF CANADA



THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY

1952



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THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY

1952

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NOTICE

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

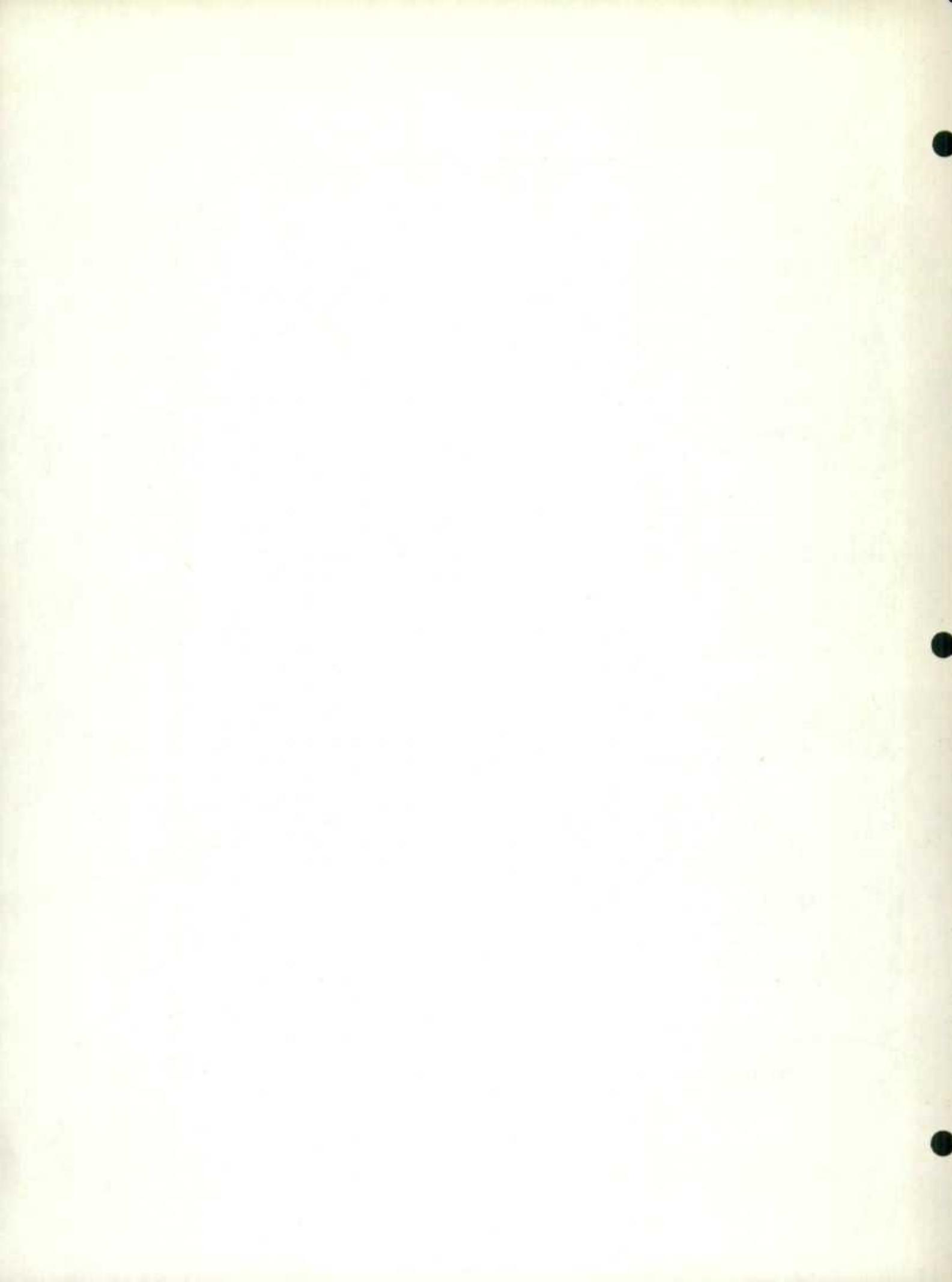
Volume II consists of the following parts, the first two of which deal with manufacturing as a whole and the balance with the major manufacturing groups.

- 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

1952

Factory shipments reported by firms in the Electrical Apparatus and Supplies Industry in 1952 were valued at \$715,873,342. The 401 firms which reported in this group in 1952 were distributed across Canada as follows: 1 in Nova Scotia; 83 in Quebec; 261 in Ontario; 18 in Manitoba; 4 in Alberta and 34 in British Columbia. These plants gave employment to a total of 69,200 workers who were paid \$217,564,936 in salaries and wages. Materials worth \$313,713,170 were purchased for use in manufacturing processes and an additional \$6,226,367 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 \$119,125,000 in 1952.

Statistics given in Tables 1 to 5 and 38 and 39 of this report cover only the concerns in the Electrical Apparatus and Supplies Industry. Tables 6 to

36 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 37 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.

NOTE: Data presented in this bulletin for 1952 under the heading of "Production" actually represent "Factory Shipments" and, therefore, are not exactly comparable with previous years.

TABLE 1. Principal Statistics of the Electrical Apparatus and Supplies Industry, 1948-1952

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
			\$	\$	\$	\$
1948	314	53,873	122,113,644	4,046,490	180,344,829	425,725,279
1949	365	55,916	137,278,521	4,483,959	212,460,413	486,355,355
1950	382	60,262	155,334,065	5,136,183	260,306,027	580,578,386
1951	373	67,626	194,749,038	5,844,780	316,561,307	676,008,959
1952	401	69,200	217,564,936	6,226,367	313,713,170	715,873,342 ¹

1. Value of Factory Shipments in 1952 rather than value of production reported in previous years. Inventory value of finished products at plant at end of 1951 amounted to \$46,296,000 and at end of 1952 to \$54,857,000.

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, 1951 and 1952

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
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
1952						
Batteries	26	2,094	6,455,438	370,708	25,253,692	40,708,740
Heavy electrical machinery and equipment	52	25,796	86,853,545	2,015,847	90,300,105	237,312,982
Radios and radio parts	91	11,756	33,984,529	666,601	62,481,751	122,602,702
Refrigerators, vacuum cleaners and appliances	86	8,150	24,011,232	1,081,721	41,355,257	96,608,108
Miscellaneous electrical products	146	21,404	66,260,192	2,091,490	94,322,365	218,640,810
Total	401	69,200	217,564,936	6,226,367	313,713,170	715,873,342

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

TABLE 3. Principal Statistics, by Provinces, 1951 and 1952

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
1951			\$	\$	\$	\$
Nova Scotia	1	18,726	52,990,581	1,536,899	79,159,110	172,700,400
Quebec	76	{ 19,264	59,713,646	1,472,294	73,447,571	174,338,980
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
1952						
Nova Scotia	1	19,264	59,713,646	1,472,294	73,447,571	174,338,980
Quebec	83	{ 48,533	154,292,664	4,616,510	232,082,332	525,284,664
Ontario	261	699	1,559,881	68,450	4,264,444	8,437,469
Manitoba	18	32	78,316	8,233	246,818	465,188
Alberta	4	672	1,920,429	60,880	3,672,005	7,347,041
Canada	401	69,200	217,564,936	6,226,367	313,713,170	715,873,342

TABLE 4. Products Made in the Electrical Apparatus and Supplies Industry, 1951 and 1952

Product	1951		1952	
	Quantity	Selling value at works	Quantity	Selling value at works
Apparatus:	No.	\$	No.	\$
Converter equipment (see Table 32)	—	4,131,521	—	2,324,734
Industrial control (see Table 25)	—	11,033,924	—	13,545,651
Generators and parts (see Table 6)	—	16,779,571	—	17,718,114
Motors (x) and parts (see Table 7)	—	41,824,702	—	33,976,446
Switchgear and protective equipment (x) (see Table 10)	—	35,626,220	—	41,520,525
Transformers and parts (x) (see Table 8)	—	48,160,728	—	57,738,442
Welding apparatus (x) (see Table 24)	—	3,747,597	—	5,796,420
Appliances:				
Cooking and heating equipment:				
Stoves, rangettes, cooking plates (x) (see Table 23)	268,484	12,801,908	291,261	11,858,457
Heating elements for stoves, etc. (x)	—	2,733,354	—	2,252,855
Air heaters, electric, portable type — with fan	86,347	581,148	27,984	277,333
without fan			43,491	255,299
Unit heaters (x)	1,138	67,716	2,042	86,426
Heating pads, electric (x)	124,608	477,493	112,339	436,447
Water heaters, electric (x) (see Table 26)	227,893	1,480,668	179,682	1,134,021
Flat irons, electric (x) (see Table 18)	407,504	2,646,079	396,173	2,574,322
Toasters, electric (x) (see Table 19)	240,152	1,540,411	196,593	1,252,309
All other cooking and heating apparatus	—	2,714,133	—	2,771,055
Motor-driven equipment:				
Food mixers, electric	56,525	1,744,052	57,513	1,683,112
Vacuum cleaners and parts (x) (see Table 11)	—	8,901,731	—	8,584,575
Fans, A.C. and D.C.:				
Portable type	95,478	946,892	54,941	517,266
All other types (x)	35,363	604,367	19,070	477,862
All other motor-driven appliances, including washing machines, air conditioners, etc.	—	11,369,364	—	12,552,984
Refrigeration equipment (x) (see Tables 27 and 28)	—	63,906,511	—	51,205,603
Batteries:				
Storage batteries (see Table 13)	—	20,199,803	—	21,233,315
Dry cell batteries (see Table 12)	—	8,903,143	—	8,627,469
Parts and supplies for batteries, and wet cell type batteries	—	2,459,649	—	2,143,557
Conduit and fittings (x) (see Table 9)	—	7,494,488	—	7,579,349
Cutouts and fuses (see Table 29)	—	4,392,628	—	3,688,878
Electro-therapeutic apparatus (X-ray machines, therapeutic lamps, etc.)	—	727,019	—	763,461
Electrical industrial heating equipment:				
Furnaces:				
Resistance type (x)	—	355,889	—	645,056
Other types (x)				
Industrial ovens (x)	—	1,812,229	—	1,521,209
Other industrial heating equipment				
Instruments and meters:				
Watt hour meters	509,752	7,211,494	391,232	6,190,325
Electrical indicating instruments (x)	—	539,508	—	799,497
Other electrical instruments and meters (x)	—	1,183,369	—	1,355,431
Parts for instruments and meters	—	1,321,563	—	1,011,572
Lamps (bulbs):				
Incandescent (except therapeutic) (see Table 20)	94,006,324	12,170,899	96,804,890	13,998,652
Fluorescent (see Table 21)	5,262,530	3,252,267	4,098,522	2,817,174
Lighting fixtures (x) (see Table 30)	—	21,564,969	—	20,624,897
Line material, including pole line hardware (x) (see Table 33)	—	6,173,148	—	7,181,024

TABLE 4. Products Made in the Electrical Apparatus and Supplies Industry, 1951 and 1952 — Concluded

Product	1951		1952	
	Quantity	Selling value at works	Quantity	Selling value at works
Radio apparatus and supplies:			No.	\$
Radio receiving sets for civilian use (see Table 14)	628,395	29,635,311	567,738	22,178,626
Record players, electrically operated	59,929	1,412,974	75,934	1,718,187
Radio transmission equipment for civilian use	—	3,530,019	—	5,292,546
Radio communication equipment for military purposes (except radar)		Not available separately in 1951	—	16,401,057
Radar equipment			—	26,504,273
Radio condensers	—	2,524,557	—	2,506,944
Television equipment — Complete sets (see Table 15).....	48,657	12,902,090	141,946	30,072,895
Other equipment	—	364,685	—	633,730
All other radio and electronic equipment, except tubes and transformers	—	21,562,128	—	9,255,625
Signal systems:				
Traffic	—	321,190	—	409,518
Fire alarm	—	499,873	—	564,978
Interior signal and clock systems, excluding telephone	—	999,405	—	867,078
Vacuum tubes (see Tables 16 & 17).....	—	6,282,858	—	7,131,375
Wiring devices (x) (see Table 31).....	—	15,628,798	—	12,698,140
Wires and cables (x) (see Table 22).....	—	115,203,948	—	111,819,215
Miscellaneous:				
Fencers, electric (x)	13,650	117,652	13,478	121,880
Rectifiers for storage battery charging ¹	—	767,498	—	1,097,748
Telephone materials, including exchange switchboards, telephones, transmitters, etc.	—	40,255,317	—	40,229,021
All other products, not separately specified	—	45,485,743	—	49,250,719
Amount received for repair work	—	4,926,558	—	6,398,653
Total all products	—	676,008,959	—	715,873,342

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 36.

TABLE 5. Materials Used in the Electrical Apparatus and Supplies Industry, 1951 and 1952

Material	Unit of measure	1951		1952	
		Quantity	Cost at works	Quantity	Cost at works
Aluminum:			\$		\$
Casting	lb.	3,845,009	2,429,005	3,053,743	1,953,884
Ingots	"	1,972,001	468,174	1,645,205	358,886
Rods and bars	"	11,119,498	2,941,502	8,236,957	2,193,957
Scrap	—	—	27,421	—	16,663
Sheets	lb.	3,703,309	1,454,499	2,953,903	1,259,190
Other	—	—	1,054,365	—	982,354
Ammonium chloride (sal ammoniac)	lb.	2,390,694	165,561	2,173,432	155,008
Antimony	"	143,176	32,795	84,813	26,333
Argon	cu. ft.	622,619	86,404	590,143	82,595

TABLE 5. Materials Used in the Electrical Apparatus and Supplies Industry, 1951 and 1952 - Continued

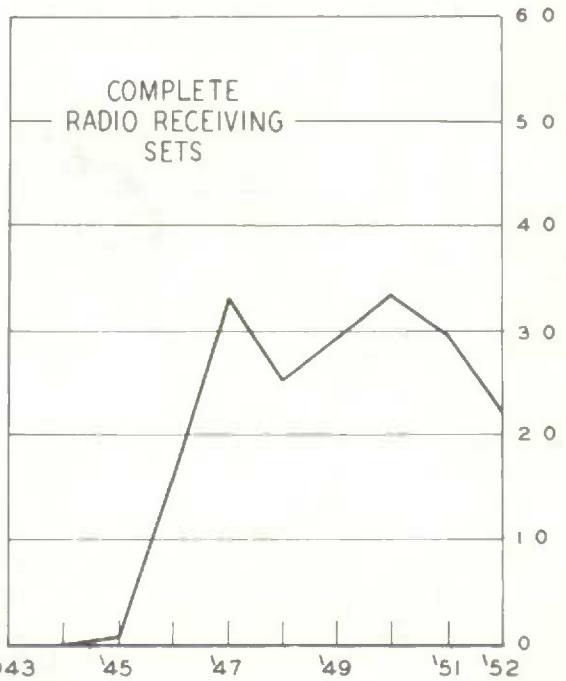
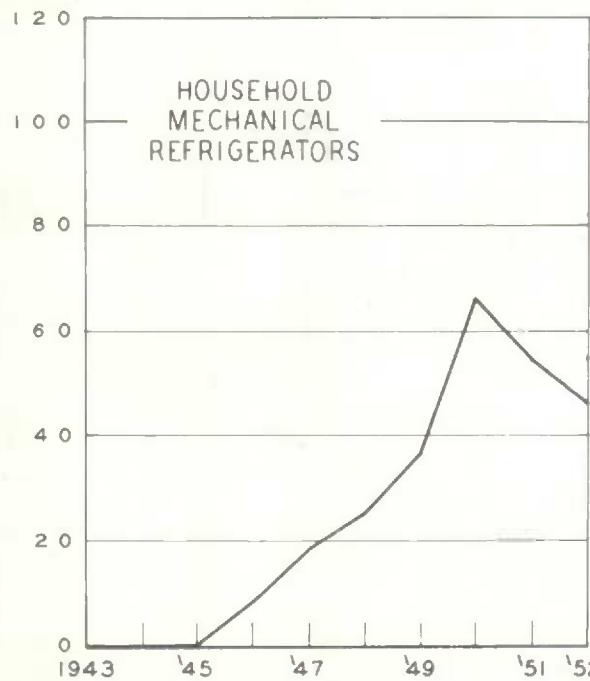
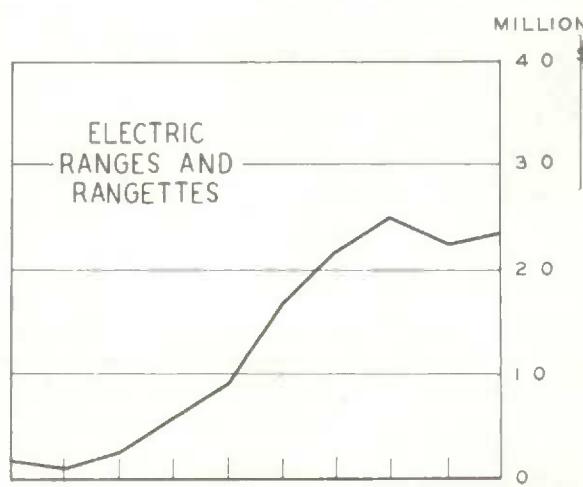
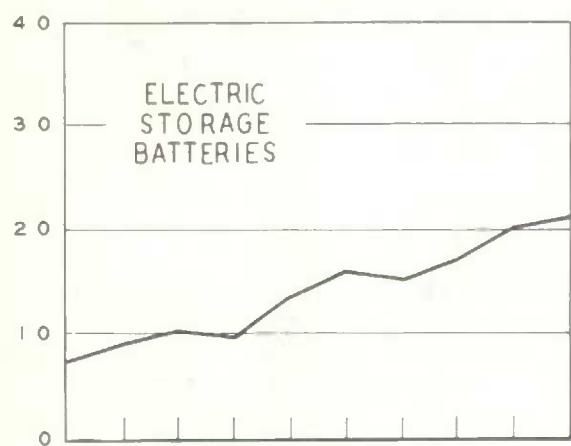
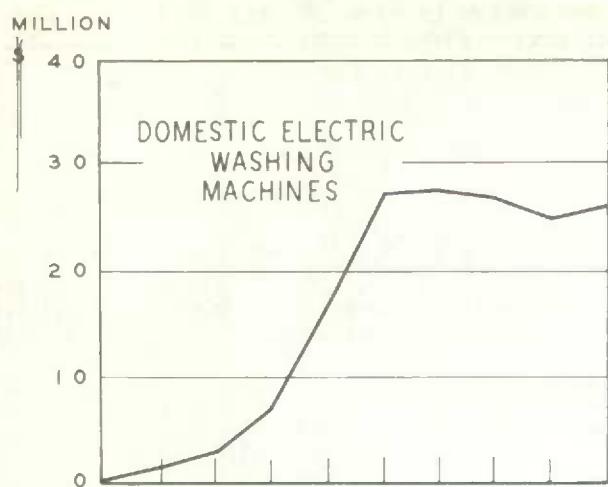
Material	Unit of measure	1951		1952	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Battery boxes and containers	—	—	2,463,127	—	2,598,087
Brass and bronze:					
Castings.....	lb.	2,183,803	1,325,659	1,687,559	1,088,048
Ingots	"	1,259,359	402,885	1,372,361	497,425
Rods and bars.....	"	5,913,908	2,312,196	4,199,788	1,733,101
Tubing and pipe	"	387,621	199,388	362,921	210,497
Sheets and plates.....	"	4,073,993	1,744,502	2,881,103	1,237,772
Scrap.....	"	183,771	32,833	135,318	33,707
Other.....	—	—	1,863,456	—	1,299,411
Carbon plates, blanks, etc.		—	281,273	—	305,334
Carbon brushes.....		—	70,786	—	118,208
Carbon electrodes		—	202,067	—	196,248
Chalk or whiting.....	lb.	1,332,629	19,428	594,096	13,356
China clay (kaolin)	ton	4,253	142,593	2,542	82,131
Copper:					
Castings.....	lb.	467,829	219,643	565,797	169,216
Ingots, slabs, wire bars, etc.	"	1,545,392	620,376	1,141,170	420,485
Rods.....	"	124,817,176	36,711,342	117,827,125	35,659,610
Scrap	"	32,608	6,596	20,688	4,363
Sheets and plates.....	"	5,789,475	2,411,272	5,920,224	2,743,285
Tubing and pipe	"	2,920,406	1,564,134	1,844,210	1,098,696
Wire, bare.....	"	4,620,177	1,529,868	4,898,110	2,071,954
Wire, enamelled	"	9,617,866	4,396,956	7,846,046	3,504,688
Wire, other insulated.....	—	—	5,582,288	—	5,819,176
Other	—	—	983,741	—	945,304
Cotton and linen sheets, tapes, etc.		—	4,473,544	—	3,177,498
Glass bulbs, tubing and cane.....		—	2,193,115	—	1,705,071
Insulating varnishes and japans		—	1,090,781	—	982,441
Insulating waxes		—	489,734	—	424,910
Insulators, porcelain		—	2,164,906	—	2,143,446
Iron and steel (except alloy):					
Pig iron	net ton	9,100	515,065	8,104	397,591
Iron castings	" "	11,306	3,713,928	1	
Steel bars and rods.....	" "	25,014	3,551,255	20,295	3,278,511
Steel castings	" "	1,142	700,208	1	
Steel forgings	" "	1,525	754,260	1	
Iron and steel pipe	" "	—	2,677,973	1	
Steel strips	" "	12,665	2,583,497	15,416	3,431,601
Steel sheets.....	" "	78,505	14,397,115	71,118	11,737,621
Steel wire.....	" "	14,813	2,597,029	19,761	3,723,567
Structural steel.....	" "	13,164	1,969,932	4,204	724,386
Steel stampings	" "	—	2,577,776	1	
Bolts, nuts and screws	" "	—	2,560,267	1	
Scrap iron and steel	" "	4,810	192,939	4,753	195,456
Other iron and steel	—	—	907,243	—	9,953,749

1. Reported under "other iron and steel" in 1952.

TABLE 5. Materials Used in the Electrical Apparatus and Supplies Industry, 1951 and 1952 — Concluded

Material	Unit of measure	1951		1952	
		Quantity	Cost at works	Quantity	Cost at works
Alloy steel:			\$		\$
Carbon and alloy tool steel, including high speed	—	—	298,396	—	298,366
Stainless.....	—	—	1,274,093	—	1,125,668
Silicon sheets and strips	net ton	30,747	7,718,582	23,164	6,351,662
Other alloy steel	—	—	445,207	—	250,682
Lead:					
Pig (pure).....	lb.	41,040,084	7,151,512	44,520,026	7,183,169
Antimonial	"	27,508,064	6,071,592	28,286,474	4,946,915
Scrap	"	64,362	4,758	51,164	3,891
Other	—	—	292,345	—	205,367
Lead oxide (litharge and red lead)	lb.	6,139,319	1,222,641	5,299,217	958,394
Lumber	M bd. ft.	17,040	1,890,974	16,875	1,943,905
Magnesium	lb.	19,068	18,416	7,945	7,095
Manganese dioxide	"	7,632,678	318,626	7,158,537	316,142
Mercury	"	19,362	44,441	13,967	27,953
Mica	"	737,030	1,176,294	520,957	1,187,430
Nickel-silver, all forms	—	—	289,383	—	211,682
Nitrogen	cu. ft.	2,370,773	37,853	2,133,117	37,970
Oil:					
Transformer	imp. gal.	2,768,377	1,011,746	3,372,768	1,223,158
Switch	" "	3,426	2,486	3,199	3,204
Paints, stains, lacquers, etc.	—	—	2,339,904	—	2,256,140
Radio and television cabinets.....	—	—	5,905,126	—	6,242,838
Radio and television parts for assembling	—	—	17,557,820	—	20,747,866
Radio and television tubes purchased and used to equip radio and television receiving sets made by manufacturer in own plant	No.	4,894,621	3,915,539	5,487,731	5,722,296
Refrigerator cabinets	—	—	1,566,141	—	536,913
Rubber:					
Crude.....	lb.	800,435	493,309	992,420	327,879
Other	—	—	2,229,961	—	1,694,171
Resistance wire	—	—	915,362	—	819,474
Silk, artificial	lb.	209,039	312,580	660,796	425,514
Silver	troy oz	72,971	86,966	63,604	66,616
Steel tanks	—	—	1,214,520	—	1,517,204
Sulphuric acid, 100%.....	lb.	10,571,669	172,991	11,371,357	198,721
Talc	"	1,281,752	24,609	853,302	14,143
Tin	"	234,725	352,900	224,962	257,505
Tungsten wire	—	—	189,968	—	284,266
Wood battery separators	—	—	948,513	—	1,030,836
Zinc:					
Ingots and bars	lb.	8,035,934	1,487,457	4,659,436	778,358
Sheets and strip	"	2,237,593	666,607	1,540,729	480,043
Other	—	—	1,030,531	—	1,223,502
Zinc chloride	lb.	1,044,853	73,867	1,075,620	59,915
Electric motors, purchased	—	—	2,273,267	—	1,835,389
All other materials	—	—	114,119,120	—	124,343,942
Containers and packing material.....	—	—	5,553,102	—	5,812,166
Total materials	—	—	316,561,307	—	313,713,170

PRODUCTION*
IN
CANADA
FROM
ALL INDUSTRIES
OF
SPECIFIED ELECTRICAL
PRODUCTS
1943-1952



* PRODUCTION = SELLING VALUE AT WORKS.

TABLE 6. Production¹ of Electric Generators and Parts, 1951 and 1952

—	Number	Total rating	Selling value at works
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 excitors:			
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
1952			
A.C., 1000 k.v.a. and under:			
500 r.p.m. and above	220	58,339 k.v.a.	1,242,180
Under 500 r.p.m.	—	—	—
A.C., 1001 k.v.a. and above, all speeds	35	1,163,750 k.v.a.	15,561,750
D.C. and including excitors:			
½ k.w. and ¾ k.w.	30	13 k.w.	2,700
1 k.w. to 1000 k.w.	426	6,755 k.w.	699,655
1001 k.w. and over	—	—	—
Accessories and parts for generators	—	—	211,829
Total	—	—	17,718,114

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

TABLE 7. Production of Electric Motors and Parts, 1951 and 1952. (From All Industries)

—	Number	Total rating	Selling value at works
—		H.P.	\$
1951			
Single phase, induction:			
½ h.p. and under ¹	949,454	249,452	14,243,943
½ h.p. and ¾ 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:			
½ h.p. and under ¹	7,229	1,904	236,242
½ h.p. and ¾ 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.:			
½ h.p. and under ¹	414,133	6,546	1,362,230
½ h.p. and ¾ 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.	356	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	—	—	2,771,434
Accessories and parts for motors	—	—	—
Total	—	—	46,007,714

1. Does not include shaded pole or universal motors.

TABLE 7. Production of Electric Motors and Parts, 1951 and 1952 (From All Industries) — Concluded

		Number	Total rating	Selling value at works
			H.P.	\$
	1952			
Single phase, induction:				
1/2 h.p. and under	609,552	147,042	10,583,163	
1/2 h.p. and 1/4 h.p.	40,233	23,626	1,662,383	
1 h.p. to 5 h.p., inclusive	12,743	23,612	1,245,749	
Polyphase, induction:				
1/2 h.p. and under	5,916	1,541	187,103	
1/2 h.p. and 1/4 h.p.	10,225	6,118	496,245	
1 h.p. to 5 h.p., inclusive	35,651	89,680	3,881,092	
D.C.:				
1/2 h.p. and under	333,544	8,700	1,067,892	
1/2 h.p. and 1/4 h.p.	329	192	24,111	
1 h.p. to 5 h.p., inclusive	156	390	43,485	
Polyphase, induction:				
6 h.p. to 25 h.p., inclusive	14,614	185,560	3,750,314	
26 h.p. to 100 h.p., inclusive	3,429	177,627	2,616,643	
101 h.p. to 200 h.p., inclusive	540	81,975	1,438,049	
201 h.p. and over	237	96,433	1,796,920	
D.C.:				
6 h.p. to 25 h.p., inclusive	244	3,757	335,848	
26 h.p. to 100 h.p., inclusive	321	15,888	898,944	
101 h.p. to 200 h.p., inclusive	36	5,329	240,445	
201 h.p. and over	36	40,950	912,943	
Railway and vehicle motors, A.C. and D.C.	488	118,546	1,535,000	
Shaded pole type motors, all ratings	119,104	—	505,163	
Universal type motors, all ratings	79,055	—	387,918	
Synchronous motors and condensers:				
1000 h.p. or k.v.a. and under	241	73,347 k.v.a.	1,262,775	
1001 h.p. or k.v.a. and over	18	32,175 k.v.a.	476,648	
Sets of rotors and stators for hermetically sealed refrigeration units, all ratings		—	—	2,181,664
Accessories and parts for motors		—	—	
Total		—	—	37,530,497

1. Does not include shaded pole or universal motors.

TABLE 8. Production of Transformers, by Types, 1951 and 1952

Type	1951			1952		
	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	66,777	1,033,697	15,939,673	65,938	1,118,634	18,294,496
Power transformers, 201 k.v.a. to 7,500 k.v.a., inclusive, and over 15,000 volts to and including 132,000 volts	1,163	1,418,132	8,088,506	1,406	1,594,135	11,495,900
Power transformers, over 7,500 k.v.a. or over 132,000 volts	151	3,915,800	11,363,574	234	4,034,373	14,832,088
Feeder regulators:						
Induction type	—	—	747,669	35	26,367	221,921
Step voltage type	—	—	972,018	388	—	1,128,887
Current transformers	18,312	—	964,089	13,888	—	1,230,278
Potential transformers	—	—	412,377	—	—	583,436
Constant current transformers	—	—	—	42	—	31,500
Luminous tube transformers	37,498	—	601,447	12,867	—	212,364
Ignition transformers	114,584	—	1,109,599	91,432	—	921,648
Radio transformers	798,066	—	922,243	839,531	—	1,403,459
Fluorescent transformers and ballasts	815,606	—	3,820,334	580,829	—	2,799,875
All other transformers	—	—	2,112,395	—	—	2,869,101
Parts and supplies	—	—	1,232,629	—	—	1,778,999
Total	—	—	48,286,553	—	—	57,803,952

TABLE 9. Production of Conduit¹ for Electrical Wiring, 1951 and 1952

Item	Unit of measure	1951		1952	
		Quantity	Selling value at works	Quantity	Selling value at works
Rigid conduit:			\$		\$
Iron.....	lb.	29,212,000	4,137,624	30,574,036	4,519,399
Electrical metallic tubing.....	lb.	2,926,000	774,671	1,912,544	468,210
Flexible conduit (steel and non-metallic)	ft.	2,756,358	191,179	2,554,463	184,888
Total		—	5,103,474	—	5,172,497

1. Does not include aluminum conduit.

TABLE 10. Production of Electrical Switch Gear and Protective Equipment (Except telephone switchboards) 1951 and 1952

Item	Selling value at works	
	1951	1952
	\$	\$
Switchboard panels and equipment	10,428,368	14,755,317
Panel boards and cabinets	5,312,970	4,821,809
Lightning arresters, other than radio:		
15,000 volts and under.....	513,260	424,753
Over 15,000 volts.....	430,633	357,745
Power circuit breakers	5,290,309	8,001,812
Low voltage air circuit breakers	2,970,933	2,312,970
Disconnecting switches:		
Up to and including 15,000 volts.....	948,630	774,661
Over 15,000 volts.....	1,591,385	2,837,363
Switches, enclosed safety type	4,676,508	3,094,319
Generator voltage regulators and accessories.....	244,749	90,404
Current limiting apparatus	128,212	809,311
Relays	907,612	982,135
Parts and supplies for above	909,313	499,891
Other protective equipment	1,273,338	1,850,035
Total	35,626,220	41,612,525

TABLE 11. Production of Electric Vacuum Cleaners and Parts, 1943-1952 (From All Industries)

Year	Floor models ¹		Cylinder models		Hand models		Attachments and parts		Total	
	Number	\$	Number	\$	Number	\$	Number	\$	Number	\$
1943	2,577	79,850	floor models		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			—	1,271,363 ²	—	8,770,419
1951	39,170	2,121,968	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

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, 1951 and 1952

Type	Unit of measure	Quantity	Selling value at works
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
1952			
Dry cell:			
6-inch batteries	No. of cells	2,149,367	1,066,926
Radio batteries for portable sets.....	" "	15,078,366	803,696
Radio batteries for non-portable sets.....	" "	40,759,747	3,657,440
Flashlight batteries.....	" "	30,057,641	2,780,463
Hearing-aid batteries:			
"A" batteries.....	No. of cells	2,825,647	318,939
"B" batteries.....	" "		
All other dry batteries.....			
Total		-	8,627,469

TABLE 13. Production of Electric Storage Batteries, by Types, 1951 and 1952

Type	1951		1952	
	Number	Selling value at works	Number	Selling value at works
		\$		\$
For internal combustion engine starting and ignition.....	1,611,229	16,556,947	1,743,318	17,929,889
For farm lighting plants (cells)	27,062	281,853	23,698	260,064
For railway service (cells)	20,466	862,715	17,174	650,958
For all other purposes.....	54,331	2,498,288	32,485	2,392,404
Total	-	20,199,803	-	21,233,315

TABLE 14. Production of Complete Radio Receiving Sets, 1943-1952

Year	Number of sets	Selling value at works	Year	Number of sets	Selling value at works
		\$			\$
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
1947	984,276	33,063,220	1952	567,738	22,178,626

TABLE 15. Production of Television Sets, 1948-1952

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

TABLE 16. Production of Radio Receiving Tubes, 1943-1952

Year	Number	Selling value at works	Year	Number	Selling value at works
1943	4,106,047	\$ 2,256,086	1948	4,040,949	1,831,086
1944	5,904,517	3,746,266	1949	4,682,943	2,787,421
1945	5,679,037	3,280,500	1950	8,181,925	4,964,463
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

TABLE 17. Factory Shipments of Television Picture Tubes, 1952

Number shipped.....	120,141
Value of shipments.....	\$ 2,325,121

TABLE 18. Production of Flat Irons, 1943-1952

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
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			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

TABLE 19. Production of Electric Toasters, 1943-1952

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
		\$		\$		\$		\$		\$
1943.....				Not available according to this breakdown					7,788	52,476
1944.....									6,981	44,785
1945.....									142,044	493,248
1946.....	—	—	321,648	987,287	9,735	46,920	295	10,230	331,678	1,044,437
1947.....	1,183	17,816	275,467	1,911,543	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	1,596,307
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	326,923	1,834,568
1951.....	39,031	591,031	168,576	716,763	33,667	197,360	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

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

2. Includes commercial type.

TABLE 20. Production of Incandescent Electric Lamps (Bulbs), 1943-1952

Year	Standard size		Miniature size ¹				Photo flash ²		
	Number	Selling value at works	Christmas tree		Other miniature		Number	Selling value at works	
			Number	Selling value at works	Number	Selling value at works			
		\$		\$					\$
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					
1945.....	44,397,206	5,628,626	20,216,048	1,151,350					
1946.....	49,174,360	6,553,989	30,973,583	1,454,748					
1947.....	53,990,563	7,172,059	38,580,950	1,768,405					
1948.....	53,104,627	7,547,409	40,363,003	1,951,320					
1949.....	54,793,834	7,823,042	34,380,250	2,253,262					
1950.....	70,668,414	10,858,991	32,418,426	2,512,041					
1951.....	60,499,640	9,715,612	33,506,684	2,461,287					
1952.....	65,978,887	10,963,303	4,850,322	210,646	16,807,297	1,756,885	9,228,384		1,067,828

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

2. Not available separately prior to 1952.

TABLE 21. Production of Fluorescent Electric Lamps (Bulbs), 1944-1952

Year	Number	Selling value at works
		\$
1944.....	736,535	346,691
1945.....	1,509,555	696,291
1946.....	2,018,658	1,090,062
1947.....	2,899,330	1,522,527
1948.....	3,984,900	2,422,940
1949.....	5,359,484	3,383,134
1950.....	5,138,552	4,110,949
1951.....	5,262,530	3,252,267
1952.....	4,098,522	2,917,174

TABLE 22. Production of Electrical Wires and Cables, 1951 and 1952 (From All Industries)

Item	Selling value at work*	
	1951	1952
	\$	\$
Un-insulated conductors:		
Copper, copperweld, including trolley wire	13,464,359	14,634,237
Copperweld-copper composite conductors and C.C.S.R.	638,896	563,873
Aluminum and A.C.S.R. conductors and aluminum alloys	13,546,689	13,476,759
Brass and bronze wires and cables	1,244,555	688,709
Galvanized steel conductors	258,970	221,189
Weatherproof wires (all types)	11,215,666	9,412,361
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.)	9,662,734	11,799,156
Cambric-insulated and braided (all types where V.C. is used as the insulant)	1,089,612	1,147,602
Thermo-plastic wire and cables (all types except telephone wires and cables)	8,241,920	9,668,068
Rubber-insulated leaded power cable (including armoured cable of this type and L.C. control cable)	2,303,020	2,095,846
Cambric-insulated leaded power cable (including armoured cable of this type)	918,693	955,901
Paper-insulated leaded power cable (including armoured cable of this type)	5,090,190	6,147,096
Rubber-insulated telephone wires (including PVC) (drop, duct, inside, station, bridle, etc.)	3,415,223	2,890,531
Paper-insulated telephone cable (including armoured cable of this type)	12,783,322	12,400,280
Flexible cords (except telephone and switchboard) including jacketed types	3,968,179	4,660,959
Flexible armoured cable (AC and ACL)	4,401,182	3,629,940
Signal and control cable, non-leaded	717,037	1,328,909
Non-metallic sheathed cables	6,675,849	6,366,590
Magnet wires:		
Enamelled	9,840,115	7,371,609
All others	4,492,777	4,322,617
Asbestos-insulated (all types)	1,473,501	1,890,473
Cord assemblies	1,683,609	1,642,288
All other types of wire and cable	6,642,426	4,337,474
Total	123,768,524	121,652,478

TABLE 23. Factory Sales of Stoves Made in Canada, 1950-1952 (Data Assembled From All Industries)

	1950	1951	1952
Coal, wood and sawdust burning cooking stoves and ranges, including ranges with gas or electric extension	No. 92,968 \$ 8,057,632	70,601 6,658,288	55,734 5,582,130
Coal, wood and sawdust burning heating stoves and space heaters, including all heaters, circulators, Quebec, box, oak, Franklin, globular and laundry	No. 117,553 \$ 2,046,400	105,859 1,931,382	70,702 1,107,578
Solid fuel and gas combination or oil and gas combination (not including stoves or ranges with gas extension)	No. 12,330 \$ 1,483,897	10,377 1,453,457	13,374 1,979,968
Solid fuel and electric combination or oil and electric combination (not including stoves or ranges with electric extension)	No. 10,752 \$ 1,515,821	6,817 1,074,234	8,273 1,632,600
Gas cooking stoves and ranges (not combinations), including all styles with ovens	No. 50,751 \$ 4,641,707	33,731 3,360,850	38,394 4,068,825
Gas heating stoves and space heaters	No. 11,985 \$ 315,771	12,380 394,365	9,720 315,583
Gas cooking plates — no oven	No. 3,713 \$ 49,300	1,883 24,434	869 7,432

TABLE 23. Factory Sales of Stoves Made in Canada, 1950-1952
 (Data Assembled From All Industries) — Concluded

		1950.	1951	1952
Electric cooking stoves or ranges (over 35 amperes), all styles with ovens	No. \$	160,382 23,491,183	132,718 21,202,553	142,309 21,927,293
Electric rangettes, including cord attachment and oven as one unit..	No. \$	50,722 1,677,200	37,797 1,414,144	46,347 1,681,135
Electric cooking plates and grills, including stoves for glass coffee makers	No. \$	256,493 1,031,968	194,030 1,100,113	218,837 1,054,580
Oil (kerosene) and gasoline cooking stoves and ranges	No. \$	43,649 315,534	64,626 632,966	37,892 385,267
Oil (kerosene) and gasoline heating stoves and space heaters	No. \$	— —	1,803 27,766	4,047 168,682
Fuel oil (distillate) cooking stoves and ranges	No. \$	10,519 680,197	12,753 538,302	13,888 906,411
Fuel oil (distillate) heating stoves and space heaters	No. \$	62,504 2,689,205	67,506 3,487,761	58,475 3,083,818
Total	\$	47,995,815	43,300,615	43,901,282

TABLE 24. Production of Electric Welding Apparatus and Welding Rod¹, 1943-1952

Year	Welding apparatus		Welding rod ²	
	Electric arc welding equipment with controls	Other electric welding apparatus	Quantity	Value of sales
	\$	\$	Tons	\$
1943	1,076,250	87,139		Not available
1944	546,521	145,601		
1945	674,478	205,600		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

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

TABLE 25. Production of Industrial Control Equipment, 1951 and 1952

Item	Selling value at works	
	1951	1952
	\$	\$
Starting and control equipment for electric railway and vehicle motors	1,027,842	773,000
(a) A.C. reduced voltage starters, manual and magnetic, for use with squirrel cage induction motors	545,113	803,072
A.C. manual starting switches for use with single phase and polyphase induction motors	630,283	783,987
A.C. magnetic control (exclusive of magnetic type in items (a) and (b)).....	990,499	2,130,699
Synchronous motor starters, all types.....	248,785	569,267
D.C. magnetic control, including D.C. magnetic switches (line starters)	434,112	1,205,222
(b) A.C. magnetic switches (line starters)	4,272,923	2,650,766
A.C. control centres (assemblies of A.C. magnetic switches)	430,821	973,759
A.C. and D.C. drum switches and resistors for use with drum switches.....	125,742	329,890
A.C. and D.C. dial starters, rheostats and resistors other than those used with drum switches	243,793	478,713
A.C. and D.C. brakes	212,239	354,169
All other industrial control, including accessories	1,871,772	2,493,107
Total	11,033,924	13,545,651

TABLE 26. Total Production of Domestic Water Tank Heaters, 1951 and 1952 (From All Industries)

Type	1951		1952	
	Number	Selling value at works	Number	Selling value at works
	\$			\$
Cast iron, for coal, wood or oil (120 gallons or less)	2,995	139,113	2,332	87,184
Gas, automatic	16,400	1,315,980	18,417	1,401,423
Gas, not automatic.....	13,901	183,038	13,746	187,311
Electric, circulating type	42,673	504,286	38,829	382,455
Electric, immersion type.....	120,647	470,752	105,914	413,852
Clamp-on type	63,449	228,911	38,990	184,279
Electric, automatic storage tank type, including tank and controls	31,515	2,275,350	28,245	2,085,952
Total	291,580	5,117,430	246,473	4,742,456

TABLE 27. Production of Household Mechanical Refrigerators¹, 1943-1952

Year	Number	Selling value at works
		\$
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	278,036	54,524,690
1952	244,394	46,033,194

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

TABLE 28. Production of Refrigeration Equipment, 1951 and 1952 (From All Industries)

Type	1951		1952	
	Number	Selling value at works	Number	Selling value at works
Household refrigerators:		\$		\$
Household mechanical refrigerators, complete units (electric and gas), all sizes	278,036	54,524,690	244,394	46,033,194
Household ice refrigerators — Metal	4,360	187,435	2,368	63,691
— Wood	50	2,500	60	3,600
Steel cabinets for mechanical refrigerators	62,099	1,326,490	12,609	638,043
Self-contained units:				
Milk coolers, all sizes	1,038	320,062	968	255,911
Ice cream cabinets, all sizes	6,730	2,267,594	5,408	1,976,956
Beverage coolers, all sizes	12,258	2,702,827	6,537	1,376,612
Water coolers, all sizes	39	42,265	257	56,787
Freezers — Frosted food cabinets	1,581	686,941	599	426,842
Home freezers, all sizes	6,832	2,205,522	5,223	1,539,118
Fixtures:				
Display cases, normal temperature	655	435,155	761	489,916
Low temperature refrigerators	46	19,402	87	40,777
Reach-in refrigerators (remote only)	301	135,236	309	162,603
Sectional walk-in coolers, all types	342	234,393	368	327,803
Self-contained commercial refrigerator products:				
Display cases, all sizes	2,133	1,349,339	1,678	1,191,244
Reach-ins, all sizes	2,518	950,209	1,197	412,495
Evaporators:				
Unit cooler type, all sizes	3,315	510,737	3,187	476,367
Fin coils, all sizes	8,907	495,139	7,558	437,576
Ice makers — Domestic	30,532	555,681	18,600	325,723
All other sizes	—	97,260	—	67,923
Compressors and condensing units:				
Domestic, for assembly in individual household cabinets	36,747	2,568,930	47,465	2,307,677
Commercial — Low pressure	8,191	2,169,856	4,908	1,364,152
Ammonia	58	200,190	27	99,956
Evaporative condensers:				
Low pressure	2,401	230,612	3,378	176,998
Ammonia	44	196,521	42	165,619
All other refrigeration equipment	—	5,023,189	—	5,448,174
Total	—	79,438,175	—	65,865,757

TABLE 29. Production of Cutouts and Fuses, 1951 and 1952

Type	Selling value at works	
	1951	1952
	\$	\$
Primary cutouts:		
15,000 volts and less, except oil type	1,323,790	1,047,699
Over 15,000 volts, except oil type	87,910	142,800
Oil type		
Individual cutouts for cartridge and plug fuses	447,662	216,682
Cartridge fuses	453,321	675,418
All other fuses	1,827,448	1,372,111
Renewal elements for fuses	252,697	234,168
Total	4,392,828	3,688,878

TABLE 30. Production of Electric Lighting Fixtures, 1951 and 1952 (From All Industries)

Type	Selling value at works	
	1951	1952
\$	\$	
Residential:		
Incandescent	3,077,604	2,948,133
Fluorescent	501,498	357,794
Commercial and industrial:		
Incandescent	2,559,384	3,319,916
Fluorescent	11,599,830	9,383,330
Street-lighting	1,529,117	2,146,444
Searchlights and floodlights	544,450	806,563
Exterior lighting control devices and other lighting equipment ¹	2,215,588	2,034,716
Total	22,027,471	20,996,896

1. Does not include floor lamps or table lamps.

TABLE 31. Production of Wiring Devices, 1951 and 1952

Type	Selling value at works	
	1951	1952
\$	\$	
Sockets (lamp holders):		
Brass shell	504,010	295,001
Porcelain and moulded	1,281,176	817,925
Switches:		
Surface and flush types	1,155,037	909,876
Appliance	998,209	1,103,191
Canopy and pendant	25,323	48,685
All other	643,036	331,850
Receptacles (convenience outlets) single and duplex	1,270,816	880,063
Wall plates for switches and outlets	345,022	283,947
Attachment plugs, caps and cord connectors	440,576	384,329
Heater (or appliance) plugs and other plug devices	363,837	240,217
Cord sets (all types)	1,285,377	1,062,992
Outlet and switch boxes	3,052,887	2,560,989
Outlet box connectors	1,093,346	831,735
Other wiring devices (except automobile starting switches and time switches)	3,217,422	3,008,103
Total	15,681,074	12,772,903

TABLE 32. Production of Converter Equipment, 1951 and 1952

Type	Number	Total rating	Selling value at works
1951			\$
Motor-generator sets:			
A. C. to D. C.	176	21,196 k. w.	1,250,489
A. C. to A. C.	17	7,583 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
1952			
Motor-generator sets:			
A. C. to D. C.	364	27,182 k. w.	1,436,880
A. C. to A. C.	42	395 k. w.	53,853
Synchronous converters and double current generators	—	—	—
Dynamotors, balancer sets and boosters	—	—	—
Mercury arc rectifiers for power purposes	—	—	834,001
Parts and supplies for converter equipment	—	—	—
Total	—	—	2,324,734

TABLE 33. Production of Pole Line Hardware, 1943-1952 (From All Industries)

Year	Selling value at works	Year	Selling value at works
	\$		\$
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.....	9,339,000
1947.....	4,388,444	1952.....	10,212,583

TABLE 34. Production of Domestic Washing Machines, 1943-1952 (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	
		\$		\$		\$		\$		
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		193,468	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

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 and in 1952, 3,107 units valued at \$169,858.

TABLE 35. Production of Domestic Electric Ironing Machines, 1943-1952 (From All Industries)

Year	Operated by own motor		Attached to washing machine		Total	
	Number	\$	Number	\$	Number	\$
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	10,342	895,429	—	—	10,342	895,429
1952	12,316	906,010	—	—	12,316	906,010

TABLE 36. Production of Miscellaneous Electrical Appliances, 1949-1952

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	—	53,392	1,335,468	—	—
1950	143,613	539,092	170,611	1,908,927	78,303	1,929,135	—	—
1951	128,780	496,286	150,421	1,989,000	56,525	1,744,052	12,587	251,755
1952	118,454	460,742	1	—	57,513	1,683,112	9,365	214,406

1. Not available.

TABLE 37. Imports and Exports of Specified Electrical Products, 1951 and 1952

Product	1951		1952	
	Number	Value	Number	Value
		\$		\$
(a) IMPORTS:				
Batteries for flashlights, and parts	—	141,753	—	108,695
Batteries, hearing-aid, and parts	—	340,579	—	373,266
Batteries, electric and galvanic primary, and complete parts, n.o.p.	—	493,401	—	295,771
Storage batteries, n.o.p., and parts, including separator walls of wood	—	764,028	—	1,539,759
Cleaners, electric vacuum	58,834	1,611,280	67,899	2,067,729
Cleaners, hand vacuum, and attachments, and complete parts of all vacuum cleaners	—	1,521,770	—	854,420
Cooking stoves, electric, valued at more than \$25 each	5,316	675,860	6,332	809,569
Space heating and cooking apparatus, electric, n.o.p.	—	1,816,535	—	2,165,638
Heating apparatus, electric, other than for cooking or space heating	—	886,064	—	952,049
DYNAMOS OR GENERATORS, AND PARTS	—	6,735,190	—	8,248,641
Fuses, fuse plugs and cutouts, electric, and complete parts, n.o.p.	—	891,658	—	702,349
Fluorescent tubes and other arc lamps	273,346	230,053	168,470	119,953
Photoflash lamps	—	—	1,808,612	142,746

1. Not available separately.

TABLE 37. Imports and Exports of Specified Electrical Products, 1951 and 1952 — Concluded

Product	1951		1952	
	Number	Value	Number	Value
	\$		\$	
(a) IMPORTS — concluded:				
Lamps, electric, incandescent, carbon filament.....	20,071	4,370	16,404	4,867
Lamps, electric, incandescent, metal filament.....	6,766,441	700,790	9,133,404	875,791
Lights — electric, head, side and tail lights, n.o.p.; electric torches or flashlights and parts	—	1,020,220	—	980,298
Electric light fixtures and appliances, n.o.p., and complete parts	—	4,929,131	—	4,376,460
Lightning arresters, choke coils, reactors and other protective devices, and complete parts, n.o.p.	—	215,088	—	182,071
Magneto's and complete parts, for the manufacture of internal combustion engines.....	—	99,440	—	42,397
Electrical instruments and apparatus of precision of a class or kind not made in Canada, as enumerated in tariff item 445n.	—	2,563,133	—	3,428,783
Meters, electric, and complete parts	—	1,689,275	—	1,446,209
Motors, electric, valued at less than \$10 each.....	175,133	749,244	99,614	377,348
Motors, electric, n.o.p., valued at \$10 or over and complete parts	—	15,858,976	—	16,107,199
Refrigerators, electric, domestic or store, completely equipped or not	109,624	17,501,816	202,506	33,439,964
Refrigerators, n.o.p., equipped or not	4,190	587,519	4,878	736,834
Refrigerators, parts of	—	12,530,278	—	9,713,756
Rheostats, controllers and other starting and controlling de- vices, and parts, n.o.p.	—	8,180,805	—	8,309,586
Sad irons, electric, and parts	—	252,852	—	194,479
Self-contained lighting outfits and parts, n.o.p.	—	90,831	—	75,903
Sockets, outlets and receptacles and parts, n.o.p.	—	1,358,007	—	1,260,173
Spark plugs, magnetos, n.o.p., and other ignition apparatus and parts	—	72,236	—	124,537
Switches, switchboards, n.o.p., circuit breakers and parts	—	8,350,725	—	9,504,448
Switch gear, flame proof, electric, for use underground in coal mines, and parts	—	287,992	—	138,972
Telegraph apparatus, electric, and parts	—	1,822,789	—	3,088,092
Telephone apparatus, electric, and parts	—	8,207,329	—	8,158,397
Transformers and parts, n.o.p.	—	2,749,584	—	4,046,086
Washing machines, electric, domestic	4,304	412,757	13,355	1,289,421
Washing machines, domestic, parts of	—	2,632,185	—	1,686,397
Radio tubes	2,575,016	3,352,387	2,752,218	4,960,353
Radios, tourists' purchases	46,497	1,574,383	62,982	2,312,079
Radio receiving sets.....	9,312	583,084	19,476	1,345,106
Radio receiving sets, parts of, as enumerated in tariff item 445o	—	4,054,251	—	3,412,065
Radio tube parts as enumerated in tariff item 445p	—	1,600,050	—	1,877,467
Radio and wireless apparatus, electric, n.o.p.	—	13,631,516	—	21,972,188
Electric dry shaving machines, for use in removing human hair, and parts thereof	—	1,227,461	—	1,450,271
Electric steam turbo generator sets, 700 h.p. and greater, of a class or kind not made in Canada, and parts	7	6,837,235	18	6,526,173
Electric or gas welding apparatus, not including motors	—	4,441,134	—	5,317,008
Sound equipment	—	1,136,300	—	1,354,989
Electrical apparatus, n.o.p., and parts	—	13,552,092	—	16,289,068
Total accounted for	160,965,436		194,785,820	
(b) EXPORTS:				
Batteries, storage, and parts	—	650,263	—	345,823
Batteries and parts, n.o.p.	—	1,205,410	—	544,987
Radio receiving sets (except batteries)	35,576	1,200,435	34,131	1,454,271
Radio and wireless apparatus, n.o.p.(except batteries)	—	2,252,921	—	12,838,381
Telegraph and telephone apparatus, n.o.p.	—	874,561	—	1,464,296
Transformers and parts	—	2,398,589	—	4,293,570
DYNAMOS AND GENERATORS, AND PARTS	—	1,043,992	—	3,417,205
Electric meters and parts	—	2,380,010	—	2,094,061
Electric motors and parts	60,535	1,229,324	112,202	1,863,853
Electric stoves and parts	2,007	306,528	583	97,274
Electric heating and cooking devices, domestic, n.o.p.	—	22,652	—	36,206
Spark plugs, magnetos and other ignition apparatus	—	1,594,068	—	1,761,086
Switches, sockets and other wiring devices	—	142,034	—	98,389
Electric lamps and shades	—	22,812	—	19,490
Electric light fixtures and parts	—	36,640	—	48,749
Washing machines, domestic, electric	19,623	2,059,613	10,794	1,164,032
Electric vacuum cleaners and parts	520	37,934	532	28,890
Refrigerators, electric, and parts	3,263	799,896	1,691	294,396
Electrical apparatus, n.o.p.	—	2,698,248	—	3,647,772
Total accounted for	—	20,955,930	—	35,512,731

ELECTRICAL APPARATUS AND SUPPLIES

TABLE 38. Employees and Earnings in the Electrical Apparatus and Supplies Industry, by Provinces, 1951 and 1952

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					
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	
1952						\$	\$	\$	
Nova Scotia and Quebec	4,185	1,648	9,909	3,522	19,264	21,370,687	38,342,959	59,713,646	
Ontario	9,386	3,969	26,134	9,044	48,533	49,531,792	104,760,872	154,292,664	
Manitoba	119	34	383	163	699	509,220	1,050,661	1,559,881	
Alberta	3	3	20	6	32	15,541	62,775	78,316	
British Columbia	130	42	450	50	672	612,532	1,307,897	1,920,429	
Canada	13,823	5,696	36,896	12,785	69,200	72,039,772	145,525,164	217,564,936	

TABLE 39. Capital Expenditures in the Electrical Apparatus and Supplies Industry, 1948-1952

Industry	Capital expenditures		Repair and maintenance expenditures		Total capital expenditures
	Construction	Machinery and equipment	Construction	Machinery and equipment	
1948 ¹	\$ (000)	\$ (000)	\$ (000)	\$ (000)	\$ (000)
Electrical Apparatus and Supplies	4,819	14,163	2,234	752	29,968
1949					
Batteries	96	454	71	319	940
Heavy electrical machinery and equipment	3,896	6,651	582	3,840	14,969
Radios and radio parts	59	668	177	670	1,574
Refrigerators, vacuum cleaners and appliances	303	1,463	395	647	2,808
Miscellaneous electrical products	435	4,838	769	3,926	9,968
Total	4,789	14,074	1,994	9,402	30,259
1950					
Batteries	57	386	82	355	880
Heavy electrical machinery and equipment	1,052	4,616	484	4,046	10,198
Radios and radio parts	247	1,100	249	777	2,373
Refrigerators, vacuum cleaners and appliances	1,065	2,571	506	1,111	5,253
Miscellaneous electrical products	712	4,124	719	4,153	9,708
Total	3,133	12,797	2,040	10,442	28,412
1951					
Batteries	87	490	92	384	1,053
Heavy electrical machinery and equipment	3,470	5,874	598	4,956	14,898
Radios and radio parts	2,345	1,727	306	941	5,319
Refrigerators, vacuum cleaners and appliances	6,793	4,463	398	1,152	12,806
Miscellaneous electrical products	3,565	5,783	789	3,979	14,116
Total	16,260	18,337	2,183	11,412	48,192
1952 ²					
Batteries	618	886	42	421	1,967
Heavy electrical machinery and equipment	9,177	8,702	1,284	4,274	23,437
Radios and radio parts	1,129	1,496	431	1,041	4,097
Refrigerators, vacuum cleaners and appliances	3,499	5,095	313	1,187	10,094
Miscellaneous electrical products	7,019	6,647	1,064	5,442	20,172
Total	21,442	22,826	3,134	12,365	59,767

1. Division by sub-groups not available.

2. Preliminary

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1952

Name of Firm	Location of Plant
(a) Batteries	
Québec:	
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-National Batteries of Canada, Ltd.	Outer Station, Kingston
Hay Battery Co., Limited, The	1300 Barton St. E., Hamilton
La Salle Lead Products Ltd.	680 Wyandotte St. E., Windsor
National Carbon Limited	805 Davenport Road, Toronto
Prest-O-Lite Battery Co. Ltd.	1352-60 Dufferin St., Toronto
Radium Battery	374 Barton St. E., Hamilton
Willard Storage Battery Co. of Canada Ltd.	269 Campbell Ave., Toronto
Manitoba:	
Globelite Batteries Limited	1021 Winnipeg Ave., Winnipeg
Ray-O-Vac (Canada) Limited	Berry St. and Sargent, St. James
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:	
Arrow Batteries	901 E. Hastings, Vancouver
Automotive Equipment Co.	1249 Granville St., Vancouver
Francis Battery Service	1412 Quadra St. W., Victoria
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
(b) Heavy Electrical Machinery and Equipment	
Quebec:	
Air Reduction Canada Limited	3081 Ontario St. E., Montreal
Beaupre Engineering Works Co.	3935 Newmarch St., Verdun
Bepco Canada Ltd.	4018 St. Catherine St. W., Montreal
Brown, Boveri (Canada) Ltd.	St. Johns
Devoe Electric Switch Co. Ltd., The	475 Metropolitan Blvd., Lachine
Electric Mfg. Co. Ltd.	4th St., Montmagny
Electric Tamper & Equipment Co. of Canada Ltd.	2115 Workman St., Montreal
Electric Switchgear Ltd.	115 St. Denis Ave., St. Lambert, Montreal
Hughes, Benjamin, Electric Company	12050 Reed St., Montreal
Universal Wire & Cable Co. Ltd., The	2155 Moreau St., Montreal
White, T.N., & Sons Limited	471 De La Friponne St., Montreal
World Electric Products Ltd.	6595 St. Urbain St., Montreal
Ontario:	
Acme Electric Corporation Ltd.	Northline Rd. #50, Toronto
Allanson Armature Mfg. Co. Ltd.	21 McCaul St., Toronto
Amalgamated Electric Corp. Ltd.	384 Pape Ave., Toronto
Bepco Canada Limited	33 Niagara St., Toronto
Canadian Controllers Limited	169 Eastern Ave., Toronto
Canadian Electric Box Co. Ltd.	1402 Queen St. E., Toronto
Canadian General Electric Co. Ltd.	940 Lansdowne Ave., Toronto
Canadian General Electric Co. Ltd.	107 Park St., Peterborough
Canadian 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 Garry Ave., Toronto
Dominion Cutout Co. Limited	250 Richmond St. W., Toronto
Dominion Electric Mfg. Co. Ltd.	60 Leslie St., Toronto
Eastern Power Devices Limited	29 Wabash Ave., Toronto
Elora Industries Limited	Elora
English Electric Company of Canada Ltd.	George Street, St. Catharines
Ferranti Electric Limited	Industry St., Mount Dennis, Toronto

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1952 — Continued

Name of Firm	Location of Plant
(b) Heavy Electrical Machinery and Equipment — Concluded	
Ontario — Concluded	
F.H. Welding Machines Ltd.	444 Pitt St. E., Windsor
Fraser, D.W., Limited	54-56 Lombard St., Toronto
Hammond Manufacturing Co. Ltd.	40 Wellington St. W., Guelph
International Machinery Co.	73 Robert St., Hamilton
Jones & Moore Electric Co. Ltd.	296 Adelaide St. W., Toronto
Leland Electric Canada Ltd.	50 Crimea St., Guelph
Lincoln Electric Co. of Canada Ltd.	179 Wicksteed Ave., Leaside
Lovatt Engineering Limited	3545 Danforth Ave., Toronto
Moloney Electric Co. of Canada Ltd.	213-219 Sterling Road, Toronto
Packard Electric Co. Limited	Race Street, St. Catharines
Powerlite Devices Ltd.	1870 Davenport Road, Toronto
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
Manitoba:	
Amalgamated Electric Corp. Ltd.	677 Notre Dame Ave., Winnipeg
Pioneer Electric Limited	102 Herbert St., St. Boniface
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., real
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
Electronic Enterprises Ltd.	930 St. George St., Montreal
Federal Electric Manufacturing Co. Ltd.	9600 St. Lawrence Blvd., Montreal
Monarch Radio Mfg. Co.	3839 Arcade St., Montreal
National Plastics Inc.	5785 Boyer 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
Record Player Corp.	9500 St. Lawrence Blvd., Montreal
Televox Systems Reg'd.	154 St. Bernard St., Quebec
Ontario:	
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 Radio of Canada, Ltd.	56 Esplanade St. E., Toronto
Baldwin-International Limited	3006 Bloor St. W., Toronto
Benco Television Associates Ltd.	130 Simcoe St., Toronto
Cahoon, L.D., & Company Ltd.	2271 Danforth Ave., Toronto
Canadian Admiral Corp. Ltd.	501 Lakeshore Rd., Port Credit
Canadian Arsenals Limited, Instrument & Radar Division	Vanderhoof Ave., Leaside
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
Centerlab A Div. of Globe Union Canada Ltd.	635 Queen St. E., Toronto
Consolidated Electronic Equipment Co.	1156 Yonge St., Toronto
Copper Wire Products Ltd.	137 Oxford St., Guelph
Coronet Television Corporation	1801 Walker Rd., Windsor

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1952 - Continued

Name of Firm	Location of Plant
(c) Radios and Radio Parts - Concluded	
Ontario: - Concluded	
Crosley Radio & Television Ltd.	121 McCormack St., Toronto
Daly-Arrow Ltd.	140 Kendal Ave., Toronto
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
Erie Resistor of Canada Ltd.	1151 Roselawn Ave., Toronto
Executone Communications Systems Ltd.	331 Bartlett Ave., Toronto
Farley, T.S., Limited	174 Catherine St. N., Hamilton
Hallicrafter Canada Ltd.	51 Camden St., Toronto
Industrial Electronics of Canada Ltd.	15 Cordova Ave., Toronto
International Resistance Co. Ltd.	349 Carlaw Ave., Toronto
Jewel Radio Co. of Canada	56 Esplanade St. E., Toronto
Manning Radio Ltd.	7 St. Clair Ave. W., Toronto
Marsland, Eric, & Co.	824 Victoria St. N., Kitchener
McCurdy Radio Industries	74 York St., Toronto
Measurement Engineering Limited	Arnprior and Renfrew
Meredith, C.C., & Co., Limited	Queen N. and Elgin Sts., Streetsville
Micro Engineering Laboratory	1195 Lawrence Ave. W., Toronto
Motorola Canada Ltd.	211 Geary Ave., Toronto
Northern Electric Co. Ltd.	250 Sidney St., Belleville
Ottawa Electronic Works Ltd.	342 Gladstone Ave., Toronto
Philco Corporation of Canada Ltd.	1244 Dufferin St., Toronto
Product Engineering Co.	1660 Durham Place, Windsor
Pye Canada Limited	First Street, Ajax
Radio Condenser Co. Ltd.	6 Bermondsey Rd., Toronto
Radio Speakers (Canada) Ltd.	37 Hanna Ave., Toronto
Radio Valve Co. of Canada Ltd.	189 Dufferin St., Toronto
Smallwood, S.G., Limited	397 King St. E., Kitchener
Snelgrove, C.R., Co. Ltd.	391 Sammon Ave., Toronto
Soundmaster Equipment	256 Kent St., Ottawa
Sparton of Canada Limited	Elm and Pine Sts., London
Speight, N.H., Laboratories	145 Wellington St. W., Toronto
Standard Radio Products	108 Sydney St., Kitchener
Stewart-Warner Corp. of Canada Ltd.	MacDonald Avenue, Belleville
Stromberg-Carlson Co. Ltd.	23 Primrose Ave., Toronto
Technical Industries Ltd.	1203 Lawrence Ave. W., North Park
Telecom Limited	93 Church St., Toronto
Telequipment Mfg. Co.	729 Dundas St. (rear), London
Tipping, Stanley, Esq.	36 Esgo Drive, Toronto
Transvision-Television (Canada) Ltd.	Hamilton
Venus T.V. Ltd.	401 Park St. W., Windsor
Watt Electronic Products Ltd.	140 Sydney St. S., Kitchener
White Radio Ltd.	41 West Ave. N., Hamilton
British Columbia:	
Barvic Engineering Limited	1285 Homer St., Vancouver
Chisholm Industries Limited	4515 Main St., Vancouver
Ekolite Limited	369 East Hastings St., Vancouver
Electronics Products Co., Ltd.	1569 West 6th Ave., Vancouver
Elrad Electronics Ltd.	3293 Main St., Vancouver
Humble Manufacturing Co. Ltd.	1695 West 2nd Ave., Vancouver
Magnetron Panel Co. Ltd.	1840 W. 1st Ave., Vancouver
McCarter Radio & Television Co.	4684 W. 8th Ave., Vancouver
Norpac Marine Ltd.	675 Dunsmuir Ave., Vancouver
Research Industries Ltd.	1667 W. 4th Ave., Vancouver
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
Electrolux (Canada) Limited	201 Laurier Ave. E., Montreal
Electro-Steam Manufacturing Co. Ltd.	154 Fairmount St. W., Montreal
Giant Electric Mfg. Co. Ltd.	40 Hurtubise Blvd., Montreal E.
Home Steel Products Co.	148 Port Royal W., Montreal
Imperial Electrical Products	3529 St. Lawrence Blvd., Montreal

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1952 — Continued

Name of Firm	Location of Plant
(d) Refrigerators, Vacuum Cleaners and Appliances — Continued	
Quebec: — Concluded	
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
Brock Snyder Mfg. Co., The	21 John St., Grimsby
Canadian Chromalox Co. Ltd.	251 Queen St. E., Toronto
Canadian Curtis Refrigeration Co. Ltd.	20 St. George St., Hamilton
Canadian General Electric Co. Ltd.	80 Bradford St., Barrie
Canadian General Electric Co. Ltd.	224 Wallace Ave., Toronto
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
Dowe, Geo. P., Co. Ltd.	Stop 22A Yonge St., Richvale
Durable Electric Appliance Co.	81-83 Jarvis St., Toronto
Electric Magnetic Blanket Co.	52 King St. W., Cobourg
Endress, George W., Co. Ltd.	Third St., Ajax
Ever-Bright Ltd.	2700 St. Clair Ave. W., Toronto
Filtro Products	37 Mansion Ave., Toronto
Force Electric Products Limited	163 Church St., Acton
Frigidaire Products of Canada Ltd.	1901 Eglington Ave. E., Scarborough
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
HanksCraft (Canada) Limited	Third St., Ajax
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
MacLeod, J.K., & Co. Ltd.	2 River St., Toronto
McCormack Smyth Ltd.	242 Mineola Road, Port Credit
National Electric Mfg. Co.	280 Lansdowne Ave., Toronto
Pittsburg Water Heater Co. of Canada	Grimsby Beach
Power Appliances Mfg. Co.	330 Adelaide St. W., Toronto
Premier Vacuum Cleaner Co. Ltd., The	18 Breadalbane St., Toronto
Pyrexon Ray Company Ltd.	1254 Dundas St. W., Toronto
Radiant Devices Ltd.	94 Yonge St., Toronto
Redi-Heat Electric Company Ltd.	Mill Street, Deseronto
Reed-Cameron	516 Richmond St. W., Toronto
Renfrew Electric & Refrigerator Co. Ltd.	Elizabeth Street, Renfrew
Rotor Electric Company Ltd.	131 McCormack St., Toronto
Samson United of Canada Ltd.	69 Sherbourne St., Toronto
Schultz Mfg. Co. Ltd.	154-158 York St., Hamilton
Sea Breeze Mfg. Ltd. and Audio Tool & Eng. Ltd.	32 Water St., Toronto
Shock Electric Co.	14 Breadalbane St., Toronto
Simms Motor Units of Canada Ltd.	88 Merton St., Toronto
Standard Electric and Mfg. Co.	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
Taymouth Industries Ltd.	Taymall Avenue, Toronto
Thermax Limited	Orillia
Triad Appliances	1 Torbarrie Rd., Weston
Universal Cooler Co. Ltd.	145 Brant St., Brantford
Vendall Limited	2040 Buchanan Ave., Niagara Falls
Wood, W.C., Co. Ltd., The	123 Woolwich St., Guelph

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1952 — Continued

Name of Firm	Location of Plant
(d) Refrigerators, Vacuum Cleaners and Appliances — Concluded	
Manitoba:	
A.B.C. Electric Limited	505 Sherburn St., Winnipeg
Carter, J.B., Ltd., Electric & Heating Mfg. Division	85 Water St., Winnipeg
Coldstream Refrigerator Mfg. Ltd.	166 Osborne St., 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 Accessories Mfg. Co.	205 Vitre St. W., Montreal
Canadian Cameo Chime Co. Ltd.	10332 Lille St., Montreal
Canadian General Electric Co. Ltd.	Centre Industriel No. 5, Quebec
Canadian Laco Lamps Limited	745 Guy St., Montreal
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
Dave's Repair Shop & Electric Sales & Service	24 Craig St. W., Montreal
Dominion Electric Protection Co.	2040 Clark St., Montreal
Economy Fuse & Mfg. Co. of Canada Ltd.	1030 St. Alexander St., Montreal
Electrolier Manufacturing Co. Ltd.	5849 Boyer St., Montreal
Flex-I-Con Mfg. Company Ltd.	6155 Lafontaine St., Montreal
Gaymont Manufacturing Corp.	455 Craig St. W., Montreal
Hale Brothers Limited	6222 Chambord St., Montreal
Haliburton & White Limited	686 Notre Dame St. W., Montreal
Hi-Scale Products (Canada) Ltd.	7893 St. Lawrence Blvd., Montreal
Iberville Fittings Limited	167 First St., Iberville
Keith Lighting Co.	975 Aqueduct St., Montreal
L'Air-Liquide Society	5030 Rouen St., Montreal
Mid-Day Fluorescent Fixtures Inc.	931 Amherst St., Montreal
Nagels Art Metal Works	15—6th Ave., Ville St. Pierre, Montreal
Northern Electric Co. Ltd.	1261 Shearer St., Montreal
Peerless Electric Limited	5585 Fullum St., Montreal
Phillips Electrical Works Limited	5795 De Gaspé St., Montreal
Rest-Glow Mfg. Co. Ltd.	6845 St. Urbain St., Montreal
Rosemount Industries Co. Ltd.	2090 Moreau St., Montreal
Saxe Bros. Inc.	6215 Henri Julien Ave., Montreal
Solex Company Ltd., The	280 Faillon St. W., Montreal
Standard Electric Time Co. of Canada Ltd.	726 St. Felix St., Montreal
Sylvania Electric "Canada" Ltd.	452 Heriot St., Drummondville
Systemes Lemire Ltée	253 Jacques Cartier St., Valleyfield
Temco Electric Mfg. Co.	8045 Durocher Ave., Montreal
Tinsley, H., & Co. Ltd.	234, ave Ste-Paule, St-Jérôme
Val St. Laurent Crystal Co. Ltd.	704 Notre Dame St. W., Montreal
Ontario:	
Allman Electric	342 Keewatin Ave., Toronto
Ardron Mfg. Co. Ltd.	9 Niagara St., Toronto
Arrow-Hart & Hegeman (Canada) Ltd.	Industry Street, Toronto
Automatic Watchdog Controls Ltd.	4251 Dundas St. W., Toronto
Bach-Simpson Limited	1255 Brydges St., London
Baden-Electric Fence Co.	Baden
Bayly Engineering Ltd.	5—1st Street, Ajax
Bell Electricord & Safety Equipment Co.	11 Watkinson Ave., Toronto
Boston Insulated Wire & Cable Co. Ltd.	118 Shaw St., Hamilton
Bowman Electric Herder	Petersburg
Branston, Chas. A., Limited	2508 Yonge St., Toronto
Burger Lighting Equipment Co.	27 Sackville Place, Toronto
Burke Electric & X-Ray Co. Ltd.	61-63 Yorkville Ave., Toronto
Burndy Canada Ltd.	381 Greenwood Ave., Toronto
C.&M. Products Ltd.	255 Raleigh Ave., Toronto
Camesco Fluorescent Corp. Ltd.	2382 Dundas St. W., Toronto
Campbell Electric Limited	131 Clarence St., Brantford
Canada Wire & Cable Co. Ltd.	Laird Drive, Leaside

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1952 — Continued

Name of Firm	Location of Plant
(e) Miscellaneous Electrical Products — Continued	
Ontario: — Continued	
Canadian Electric Resistors Ltd.	Curity Ave., Toronto
Canadian Fluorescent Light Co.	308-310 Adelaide St. W., Toronto
Canadian General Electric Co. Ltd.	221 Dufferin St., Toronto
Canadian General Electric Co. Ltd.	Queen Elizabeth Highway, Oakville
Canadian Line Materials Ltd.	St. Clair Ave., Scarborough Junction
Canadian Strobe & Electric Corp.	222 Front St. E., Toronto
Chadwick-Carroll Brass & Fixtures Limited	365 Wilson St., Hamilton
Colonial Lighting Co., The	608 King St., Port Colborne
Commercial Fixture Co. Ltd.	2368 Dundas St. W., Toronto
Conduits National Company Ltd.	33 Labatt Ave., Toronto
Cords (Canada)	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
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
Electronic Associates Ltd.	4616 Yonge St., Willowdale
Etlin, H.B., Mfg. Co.	1850 Wilson Ave., Toronto
Federal Wire & Cable Co. Ltd.	265 Suffolk St., Guelph
Five In One Fuse Ltd.	36-38 Caledonia Rd., Toronto
Fleck, R.D., & Co. Ltd.	184 Bond St. W., Oshawa
Garcy Company of Canada Ltd.	191 Niagara St., Toronto
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.	11A Yorkville Ave., Toronto
Industrial Wire & Cable Ltd.	35 Golden Ave., Toronto
Kamro Lighting Products	R.R. No. 1, Weston
Kearney, James R., Corp. of Canada Ltd.	3 Crawford St., Guelph
Kenny Electrical Mfg. Co. Ltd.	3705 Bathurst St., Toronto
Kondu Mfg. Co. Limited	South Street, Preston
Kruger Mfg. Company	35 Carson St., Toronto
Landy, M.A., Co. Ltd.	47 Lucy Ave., Toronto
Line & Cable Accessories Ltd.	347 Sorauren Ave., Toronto
Markel Electric Products Ltd.	23 Lewis St., Fort Erie
Marr Machine & Mfg. Co. Ltd.	160 Perth Ave., Toronto
Merit Fluorescent Co. Ltd.	369 Sorauren Ave., Toronto
Metal Industries Limited	24 Dunbar St., Hamilton
Milstark Ltd.	Stark Bldg., Ajax
Mitchell Mfg. Co. Ltd.	19 Waterman Ave., Toronto
Morganite Carbon Products, Canada, Ltd.	195 Eastern Ave., Toronto
Nichols, R.H., Limited	2781 Dufferin St., Toronto
Noma Electric Co. of Canada, Ltd.	Second Ave. and 14th St., Owen Sound
Osborne Electric Co. Ltd.	95 Wesley St., Etobicoke
Pasteuray of Canada Ltd.	426 Cannon St. E., Hamilton
Phillips Electrical Works Ltd.	Kingston Road, Brockville
Pierce Fuse Corporation Ltd.	143 Lavina St., Fort Erie
Pilot Mfg. Co.	530 Richmond St. W. (rear), Toronto
Polytronics Co.	582 Bathurst St., Toronto
Powertronic Equipment Limited	50 Bermondsey Rd., Toronto
Regent Equipment Mfg. Co. Ltd.	455 King St. W., Toronto
Service Lamp Co. Ltd.	197 King St., London
Slater, N., Co. Ltd.	2 Sydney St., Hamilton
Smith, Lawrence F., & Sons	530 Richmond St. W. (rear), Toronto
Smith & Stone Limited	Georgetown
Sterne Equipment Co. Ltd.	152 Lappin Ave., Toronto
Swift Devices Limited	14 George St., Hamilton
Taylor Electric Mfg. Co. Ltd.	625 Princess Ave., London
Toronto Metal Spinning Ltd.	32 Eastern Ave., Toronto
Triangle Conduit & Cable (Canada) Ltd.	4006 Dundas St. W., Toronto
Triangle Conduit & Cable (Canada) Ltd.	Scarborough
Virden, John C., Limited	19 Curity Ave., Toronto
Vulcan Electric Products Ltd.	3160 Dundas St. W., Toronto
Wakfer Electronics Co. Ltd.	35 Cameron St., Dundas
Waldman, Harvey, & Co.	52 Dickens Ave., Toronto
Walker Metal Products Ltd.	1500 Kildare Road, Walkerville
Wickett, Bradford J.	2792 Yonge St., Toronto

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1952 — Concluded

Name of Firm	Location of Plant
(e) Miscellaneous Electrical Products — Concluded	
Ontario: — Concluded	
Wilson, J.A., Lighting & Display Ltd.	280 Lakeshore Rd., Toronto 14
Wynston, A.L. Jr., Ltd.	251 Spadina Ave., Toronto
Manitoba:	
Advance Lighting Co.	55 Myrtle St., Winnipeg
Caswell, W.A.	190 Chestnut St., Winnipeg
C.T. Electrical Controls	11th St. & Queens Ave., Brandon
Globe Electric Mfg. Co. Ltd.	573 Main St., Winnipeg
Ideal Electric Mfg. Co.	372 Selkirk Ave., Winnipeg
Lighting Materials Ltd.	803 Erin St., Winnipeg
Lite-Rite Products Ltd.	1141 Pembina Highway, Winnipeg
L.&S. Electric Mfg. Ltd.	466-70 Ross Ave., Winnipeg
Super-Lite Electric Mfg. Co. Ltd.	1465 Notre Dame Ave., Winnipeg
Alberta:	
Technical Enterprises	7603-104th St., Edmonton
British Columbia:	
Canada Wire & Cable Co. Ltd.	1494 Powell 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
Western Lighting Fixture Co. Ltd.	246 West Second Ave., Vancouver





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