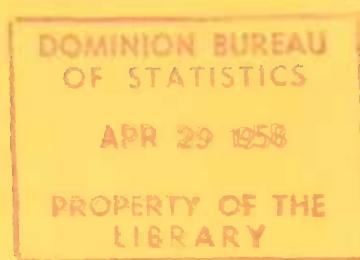


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THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY

1956



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



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Industry and Merchandising Division
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THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY

1956

Published by Authority of
The Honourable Gordon Churchill, Minister of Trade and Commerce

NOTICE

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

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

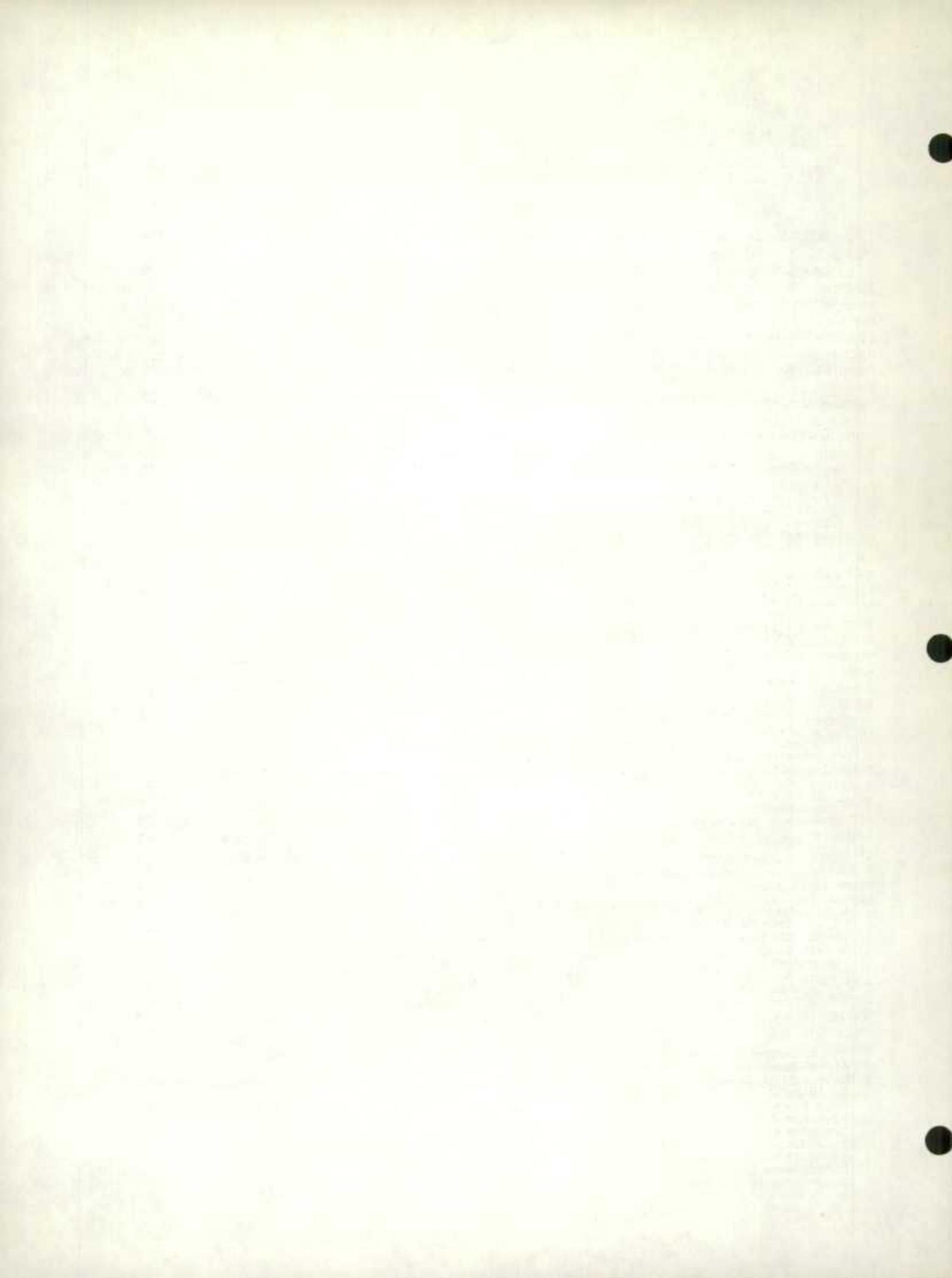
- I — General Review of the Manufacturing Industries, \$1.50
- II — The Manufacturing Industries of Canada, (7 sections, as follows):
 - Section A. Summary for Canada, 25¢
 - Section B. Atlantic Provinces, 50¢
 - Section C. Quebec, 25¢
 - Section D. Ontario, 25¢
 - Section E. Prairie Provinces, 40¢
 - Section F. British Columbia, 25¢
 - Section G. The Manufacturing Industries of Canada,
Regional Distribution, 75¢
- III — Foods and Beverages
- IV — Tobacco and Tobacco Products
- V — Rubber Products
- VI — Leather Products
- VII — Textile Mills
- VIII — Knitting Mills
- IX — Clothing
- X — Wood and Paper Products
- XI — Printing Trades
- XII — Iron and Steel Products
- XIII — Transportation Equipment
- XIV — Non-ferrous Metal Products
- XV — Electrical Apparatus and Supplies
- XVI — Non-metallic Mineral Products
- XVII — Products of Petroleum and Coal
- XVIII — Chemicals and Allied Products
- XIX — Miscellaneous Manufactures

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

A — The Electrical Apparatus and Supplies Industry, 25¢

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THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY

1956

Factory shipments reported by firms in the Electrical Apparatus and Supplies Industry in 1956 were valued at \$1,090,194,175, an increase of 13.2 per cent over the 1955 total of \$962,615,012. The 473 firms which reported in this group in 1956 were distributed across Canada as follows: 1 in Newfoundland; 1 in Nova Scotia; 98 in Quebec; 310 in Ontario; 20 in Manitoba; 1 in Saskatchewan; 7 in Alberta; and 35 in British Columbia. These plants gave employment to a total of 83,296 workers who were paid \$310,522,800 in salaries and wages. Expenditures for materials amounted to \$558,249,520 and an additional \$9,164,267 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 automobiles and household use, but excluding office and industrial machinery, amounted in value to about \$139,800,000 in 1956.

Statistics given in Tables 1 to 5 and 38 to 40 and Table 42 of this report cover only the concerns in the Electrical Apparatus and Supplies Industry. Tables 6 to 37 give the total Canadian output (regardless of the industry in which produced) of generators, motors, transformers, conduit, switch gear, vacuum cleaners, dry cell batteries, storage batteries, radios, television sets, radio tubes, flat irons, toasters, lamps, wire and cable, stoves,

welding apparatus, control equipment, water-tank heaters, refrigeration equipment, cutouts and fuses, lighting fixtures, wiring devices, converter equipment, pole line hardware, washing machines, ironers and miscellaneous electrical appliances. Table 41 is a special compilation covering imports and exports of certain specified electrical products.

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

Note: Figures for value added by manufacture, shown in Table 1, prior to 1952 were obtained by subtracting the cost of materials used, including fuel and electricity, from the value of production. In 1952 the gross value of production was replaced by value of factory shipments, f.o.b. plant. As no information on inventory change is available for 1952 and 1953, value added figures for these years were obtained by subtracting from the value of shipments the cost of materials, fuel and electricity. In 1954 and 1955 the "Value Added" adjustment incorporated the increase or decrease to shipments values resulting from changes in the value of inventories over the period. For these two years, the adjustments that were made used only the change in finished product inventory owned by manufacturers. Beginning with 1956 the calculation of the "Value Added" figure was further adjusted to take into account the "Goods in Process" as well as the finished goods held at plant or plant warehouse. The "Goods in Process" adjustment is not based on the values for this item as shown in Table 3, which represents goods in process owned by reporting manufacturers only; but rather, is based on goods in process held by manufacturers (i.e. goods in process inventory owned plus inventory held under progress payments arrangements). An inventory change of \$29,253,000 for these progress payments was therefore added in 1956 to the goods in process figures shown in Table 3 in order to arrive at an actual "Value Added" figure.

TABLE 1. Principal Statistics of the Electrical Apparatus and Supplies Industry, Significant Years 1929-56, and by Provinces, 1955 and 1956

Year and province	Establishments	Employees	Salaries and wages	Cost of fuel and electricity at works	Cost at works of materials used	Value added by manufacture ¹	Gross selling value of products ¹
	No.	No.	\$	\$	\$	\$	\$
1929	139	20,871	26,725,215	1,098,506	49,623,322	63,074,174	113,796,002
1933	174	11,767	12,428,430	851,575	14,504,269	22,508,240	37,012,509
1937	191	21,706	26,291,436	1,331,249	41,695,446	55,815,297	98,841,992
1939	190	20,261	25,711,092	1,266,471	39,331,766	48,462,341	89,060,578
1944	234	48,834	82,304,460	2,488,432	120,413,034	160,169,974	283,071,440
1946	266	43,998	74,510,479	2,667,477	101,939,272	129,965,904	234,572,653
1949	365	55,916	137,278,521	4,483,959	212,460,413	269,410,983	486,355,355
1952	401	69,200	217,564,936	6,226,367	313,713,170	395,933,805	715,873,342
1953	422	76,856	250,646,777	6,956,744	383,743,994	457,489,516	848,190,254
1954	457	75,075	258,509,601	7,423,726	396,583,427	462,960,141	863,942,144
1955							
Newfoundland	1						
Nova Scotia	1						
Quebec	98						
Ontario	300						
Manitoba	19						
Saskatchewan	2						
Alberta	9						
British Columbia	38						
Canada	468	76,244	264,031,474	7,876,225	477,655,753	469,918,651	962,615,012
1956							
Newfoundland	1						
Nova Scotia	1						
Quebec	98						
Ontario	310						
Manitoba	20						
Saskatchewan	1						
Alberta	7						
British Columbia	35						
Canada	473	83,296	310,522,800	9,164,267	558,249,520	577,411,595	1,090,194,175

1. See footnote to text.

TABLE 2. Principal Statistics, by Sub-groups¹, 1955 and 1956

Group	Establishments	Employees	Salaries and wages	Cost of fuel and electricity at works	Cost at works of materials used	Value added by manufacture ²	Value of factory shipments ²
	No.	No.	\$	\$	\$	\$	\$
1955							
Batteries	36	2,237	7,872,246	484,022	23,718,135	15,722,359	40,055,423
Heavy electrical machinery	70	22,216	81,904,903	2,123,627	75,020,917	120,703,089	198,408,390
Radios and radio parts ³	126	19,036	61,741,290	1,127,488	155,719,565	112,579,145	263,420,279
Refrigerators and appliances	79	9,463	30,387,878	1,434,145	64,513,978	61,797,166	135,669,776
Miscellaneous electrical products:							
Wires and cables ⁴	15	6,602	25,408,424	1,088,999	92,778,460	58,897,638	155,963,285
Other miscellaneous electrical products	142	16,690	56,716,733	1,617,944	65,904,698	100,219,254	169,097,859
Total	468	76,244	264,031,474	7,876,225	477,655,753	469,918,651	962,615,012

TABLE 2. Principal Statistics, by Sub-groups¹, 1955 and 1956 – Concluded

Group	Establishments	Employees	Salaries and wages	Cost of fuel and electricity at works	Cost at works of materials used	Value added by manufacture ²	Value of factory shipments ²
1956	No.	No.	\$	\$	\$	\$	\$
Batteries	36	2,244	8,017,309	574,170	25,702,818	14,540,125	41,133,182
Heavy electrical machinery	74	23,636	95,729,972	2,424,866	116,074,348	163,584,152	261,832,208
Radios and radio parts ³	125	21,403	72,568,917	1,269,636	135,182,456	119,323,007	244,762,934
Refrigerators and appliances	77	9,512	34,567,188	1,616,333	75,861,210	80,339,475	148,903,902
Miscellaneous electrical products:							
Wires and cables ⁴	16	7,412	30,014,251	1,409,532	118,183,137	76,839,862	192,214,938
Other miscellaneous electrical products	145	19,089	69,625,163	1,869,730	87,245,551	122,784,974	201,347,011
Total	473	83,296	310,522,800	9,164,267	558,249,520	577,411,595	1,090,194,175

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

2. See footnote to text.

3. For statistical purposes this industry includes in addition to firms manufacturing radios and radio parts firms engaged in manufacturing record players, television equipment (including complete sets), radar and other electronic and telecommunications equipment (except telephone equipment). At the present time manufacturers of telephone equipment are classified to the "Other miscellaneous electrical products" industry.

4. "Wires and Cables" as a sub-division of the miscellaneous electrical products industry available for the first time in 1955.

TABLE 3. Inventories¹, 1956

	Raw materials and supplies	Goods in process ²	Finished goods of own manufacture	Total
(a) By sub-groups	\$	\$	\$	\$
Opening:				
Batteries	3,649,835	2,486,561	2,108,740	8,245,136
Heavy electrical machinery and equipment	21,760,898	23,592,923	15,534,155	60,887,976
Radios and radio parts ³	18,393,550	16,847,469	18,961,198	54,202,217
Refrigerators, vacuum cleaners and appliances	12,401,449	6,287,582	10,058,158	28,747,189
Miscellaneous electrical products*:				
Wires and cables	10,430,701	7,388,781	9,584,975	27,404,457
Other miscellaneous electrical products	13,308,139	18,557,561	18,758,641	50,624,341
Canada	79,944,572	75,160,877	75,005,867	230,111,316
Closing:				
Batteries	3,186,818	2,718,372	1,560,860	7,466,050
Heavy electrical machinery and equipment	23,607,592	19,117,387	18,569,849	61,294,828
Radios and radio parts ³	17,249,431	13,311,610	24,366,222	54,927,263
Refrigerators, vacuum cleaners and appliances	14,437,856	7,487,689	17,771,167	39,696,712
Miscellaneous electrical products*:				
Wires and cables	12,836,228	7,839,597	13,351,752	34,027,577
Other miscellaneous electrical products	17,174,286	25,405,705	24,044,741	66,624,732
Canada	88,492,211	75,880,360	99,664,591	264,037,162
(b) By provinces				
Opening:				
Newfoundland, Nova Scotia and Quebec	16,229,043	26,241,842	23,973,738	66,444,623
Ontario	60,786,369	47,260,919	49,625,939	157,673,227
Manitoba	988,739	530,118	453,155	1,972,012
Saskatchewan and Alberta	348,510	326,994	231,766	907,270
British Columbia	1,591,911	801,004	721,269	3,114,184
Canada	79,944,572	75,160,877	75,005,867	230,111,316
Closing:				
Newfoundland, Nova Scotia and Quebec	19,287,291	34,359,533	29,490,307	83,137,131
Ontario	65,228,634	39,769,940	68,852,819	173,851,393
Manitoba	1,174,979	684,857	408,575	2,268,411
Saskatchewan and Alberta	386,549	387,410	352,518	1,126,477
British Columbia	2,414,758	678,620	560,372	3,653,750
Canada	88,492,211	75,880,360	99,664,591	264,037,162

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

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

(c) The opening inventory for 1956 does not necessarily agree with the closing inventory for 1955 because of revisions such as the addition of new plants, the transfer of plants to other industries and plants going out of business, etc. However, the value added figures for the previous year have not been recalculated to allow for the revisions mentioned above.

2. See footnote to text.

3. See footnote to Table 2.

TABLE 4. Products Made in the Electrical Apparatus and Supplies Industry, 1955 and 1956

Product	1955		1956	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
		No.	\$	No.
Apparatus:				
Converter equipment (see Table 31).....	—	3,732,008	—	5,238,807
Industrial control (see Table 24)	—	13,260,486	—	23,901,222
Generators and parts (see Table 6)	—	9,277,715	—	12,364,274
Motors (x) and parts (see Table 7).....	—	30,769,541	—	56,856,404
Switchgear and protective equipment (x) (see Table 10).....	—	39,515,437	—	55,861,612
Transformers and parts (x) (see Table 8).....	—	49,509,156	—	69,075,141
Welding apparatus (x) (see Table 23).....	—	6,999,976	—	10,194,204
Capacitors (x) (see Table 37).....	—	6,143,152	—	5,762,501
Appliances:				
Cooking and heating equipment:				
Stoves, rangettes, cooking plates (x) (see Table 22)	—	13,975,287	—	16,682,870
Heating elements for stoves, etc. (x)	—	4,203,360	—	4,776,324
Air heaters, electric, portable type — with fan (x)	38,663	404,378	51,400	464,335
without fan (x).....	51,861	848,092	41,837	634,370
Heating pads, electric (x) (see Table 35).....	126,748	503,286	171,498	552,133
Water heaters, electric (x) (see Table 25).....	—	1,739,942	—	2,182,025
Flat irons, electric (x) (see Table 17).....	—	4,574,058	—	5,041,778
Toasters, electric (x) (see Table 18).....	—	3,077,457	—	3,554,357
All other cooking and heating apparatus.....	—	8,335,590	—	9,968,644
Motor-driven equipment:				
Vacuum cleaners and parts (x) (see Table 11).....	—	9,040,761	—	9,677,454
Fans, A.C. and D.C.:				
Portable type (x).....	133,957	1,396,528	179,118	1,875,582
All other types (x).....	9,324	320,491	11,499	686,057
All other motor-driven appliances, including washing machines, air-conditioners, etc.	—	19,939,670	—	25,547,247
Refrigeration equipment (x) (see Tables 26 and 27)	—	57,639,585	—	56,462,747
Batteries:				
Storage batteries (see Table 13).....	—	25,173,394	—	27,279,194
Dry cell batteries (see Table 12).....	—	7,378,210	—	7,784,188
Parts and supplies for batteries, and wet cell type batteries	—	2,137,179	—	2,101,160
Conduit and fittings (x) (see Table 9).....	—	10,893,960	—	13,390,990
Cutouts and fuses (see Table 28).....	—	4,053,996	—	4,578,895
Electro-therapeutic apparatus (X-ray machines, therapeutic lamps, etc.)	—	422,636	—	301,458
Electrical industrial heating equipment:				
Furnaces:				
Resistance type (x).....	—	329,032	—	
Other types (x).....	—	705,056	—	1,295,832
Industrial ovens (x).....	}	—	—	—
Other industrial heating equipment.....				
Instruments and meters:				
Electrical indicating instruments (x)	—	833,395	—	1,212,364
Other electrical instruments and meters, including watt hour meters and demand meters (x) (see Table 36).....	—	8,966,125	—	9,894,000
Parts for instruments and meters	—	1,309,327	—	1,316,765
Lamps (bulbs):				
Incandescent (except therapeutic) (see Table 19).....	—	18,642,253	—	18,566,598
Fluorescent (see Table 20)	5,005,823	3,561,358	5,799,172	4,377,750
Lighting fixtures (x) (see Table 29).....	—	29,201,682	—	33,245,687
Line material, including pole line hardware (x) (see Table 32).....	—	7,430,432	—	9,094,088

**TABLE 4. Products Made in the Electrical Apparatus and Supplies Industry,
1955 and 1956 — Concluded**

Product	1955		1956	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
	No.	\$	No.	\$
Radio apparatus and supplies:				
Radio receiving sets for civilian use (x) (see Table 14)	556,168	17,082,041	648,422	21,060,946
Record players — With amplifier	89,551	3,859,115	176,532	5,682,494
Without amplifier	34,653	471,990	12,142	316,797
Radio transmission equipment for civilian use (x):				
Mobile	—	5,007,216	—	12,622,631
Microwave				
High frequency				
Very high frequency				
Radio communication equipment for military purposes (x) (except radar):				
Mobile	—	18,284,606	—	11,465,068
Microwave				
High frequency				
Very high frequency				
Radar equipment — commercial and defence	—	23,673,414	—	14,845,119
Radio condensers		"see capacitors"		
Navigational equipment, aeronautical and marine	—	3,295,434	—	879,746
Carrier current equipment	—	5,733,768	—	7,949,399
Studio television equipment, including cameras, etc.	—	1,184,328	—	984,468
Radio transmitters for broadcast and television	806,253	130,497,108	613,895	94,506,905
Television equipment — Complete sets (see Table 15)				
Industrial electronic control (relays, photo-electric timing, capacitance, etc. and electronic control panels for industrial applications) (x)	—	169,305	—	617,133
Spare parts (less tubes) for maintenance of electronic telecommunication equipment and other electronic equipment — commercial and defence	—	3,751,664	—	4,291,664
Contract maintenance of electronic telecommunication equipment — commercial and defence	—	1,510,422	—	3,626,490
All other radio and electronic equipment, except tubes and transformers	—	35,072,912	—	32,994,485
Signal systems:				
Traffic	—	377,250	—	367,597
Fire alarm	—	743,762	—	950,540
Interior signal and clock systems, excluding telephone	—	1,107,101	—	1,260,332
Vacuum tubes (see Table 16)	—	17,976,974	—	20,339,470
Wiring devices (x) (see Table 30)	—	13,974,866	—	16,835,953
Wires and cables (x) (see Table 21)	—	150,732,153	—	186,518,927
Miscellaneous:				
Fencers, electric (x)	5,164	63,602	4,560	54,382
Rectifiers, except power type	—	707,611	—	1,118,730
Telephone materials, including exchange switchboards, telephones, transmitters, etc.	—	55,133,699	—	70,258,227
All other products, not separately specified	—	55,210,791	—	63,893,988
Amount received for repair work	—	4,749,889	—	4,953,127
Total all products	—	962,615,012	—	1,090,194,175

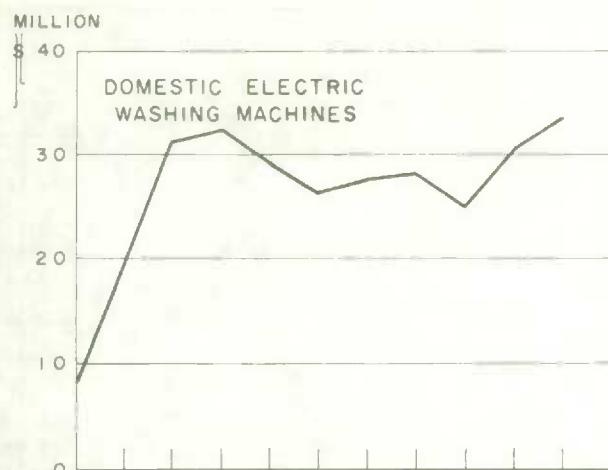
Note: In the Census of Industry the reporting firms are classified to certain industries in accordance with the nature of the main products which they manufacture. Data in this table represent only the output of concerns classified to the Electrical Apparatus and Supplies Industry. The figures for the individual items do not necessarily represent the total output in Canada as these articles may have been produced as minor products by companies which have been classified to other industrial groups. The (x) indicates that the article was made also in other industries. For the total Canadian output of certain major items, see Tables 6 to 37.

TABLE 5. Materials Used in the Electrical Apparatus and Supplies Industry, 1955 and 1956

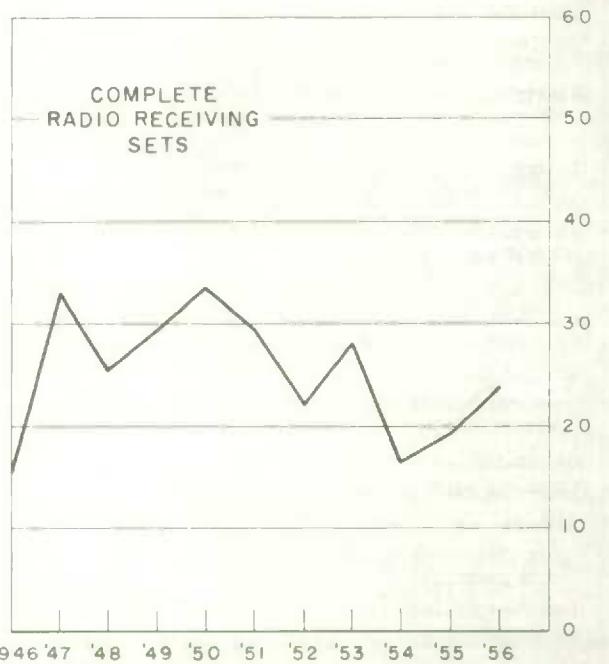
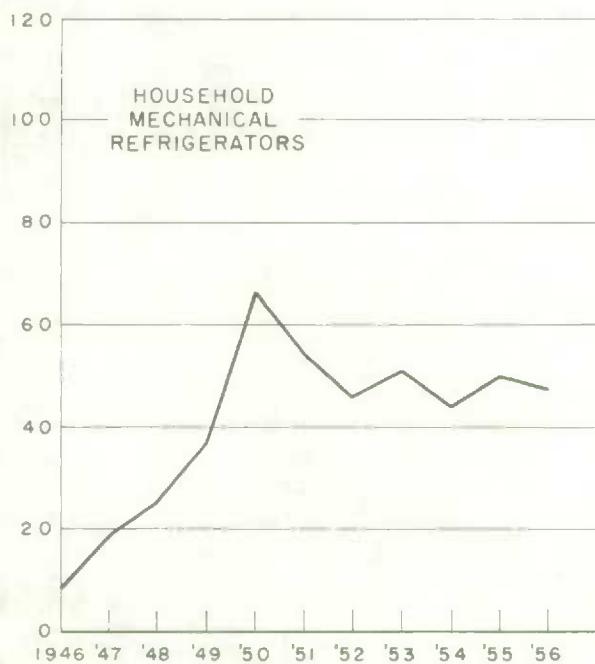
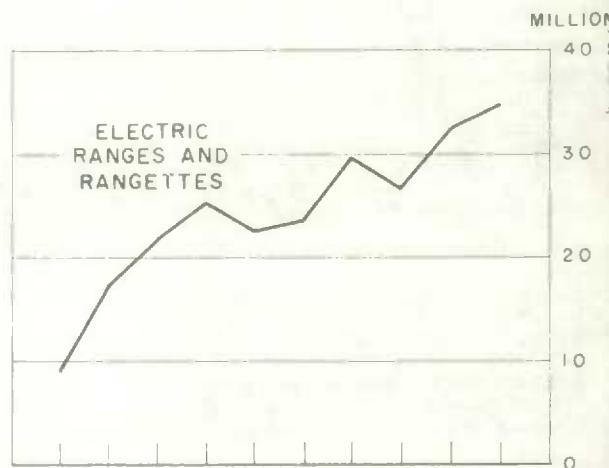
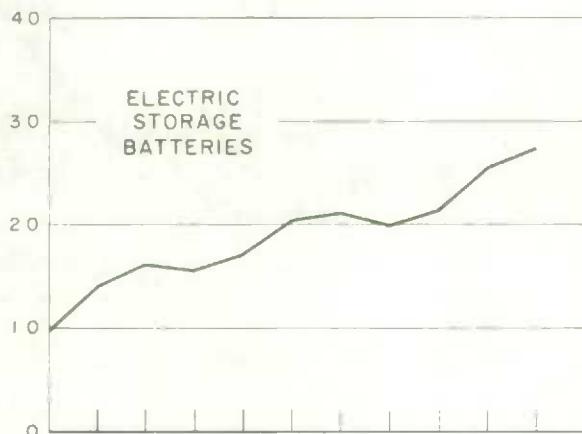
Material	Unit of measure	1955		1956	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Aluminum:					
Castings	lb.	3,962,086	2,462,303	4,887,109	3,149,780
Ingots	"	2,886,002	752,660	3,540,513	1,150,129
Rods and bars	"	41,449,237	10,087,380	43,570,725	12,342,179
Scrap	lb.	15,169	4,169	23,552	7,742
Sheets and strip	"	3,414,314	1,592,881	7,559,663	3,453,366
Other	-	-	3,019,269	-	3,138,762
Ammonium chloride (sal ammoniac)	lb.	1,814,946	108,971	1,607,255	91,672
Antimony	"	10,154	2,566	2,825	1,043
Argon	cu. ft.	884,508	103,882	771,703	91,768
Battery boxes and containers	-	-	4,604,885	-	4,643,597
Brass and bronze:					
Castings	lb.	1,643,742	1,136,930	2,852,404	1,970,694
Ingots	"	1,424,281	544,947	1,431,197	556,673
Rods and bars	"	3,378,010	1,559,508	4,419,377	2,231,360
Tubing and pipe	"	264,973	193,888	257,624	194,783
Sheets and strip	"	2,259,719	1,190,264	3,763,945	2,233,149
Scrap	"	93,337	21,986	129,132	38,213
Other	-	-	2,294,630	-	1,895,255
Carbon plates, blanks, etc.		-	423,489	-	421,975
Carbon brushes		-	155,095	-	356,456
Carbon electrodes		-	195,678	-	183,577
Chalk or whiting	lb.	704,212	11,481	1,093,357	20,930
China-clay (kaolin)	ton	1,552	66,890	1,495	66,933
Copper:					
Castings	lb.	1,132,213	540,383	753,808	563,134
Ingots, slabs, wire bars, etc.	"	750,831	425,800	2,847,774	1,384,284
Rods	"	135,058,469	52,539,782	160,708,482	70,090,780
Scrap	"	100,181	35,381	82,336	33,667
Sheets and strip	"	1,520,421	817,710	2,249,728	1,433,912
Tubing and pipe	"	1,851,098	1,379,411	2,251,076	1,644,408
Wire, bare	"	4,398,830	2,278,823	4,659,789	2,733,172
Wire, enamelled	"	9,233,869	6,268,460	9,309,714	7,571,816
Wire, other insulated	-	-	8,757,814	-	11,333,027
Other	-	-	1,034,097	-	1,192,964
Cotton and linen sheets, tapes, etc.		-	2,884,861	-	3,287,592
Glass bulbs, tubing and cane		-	3,914,797	-	4,784,892
Insulating varnishes and japans		-	1,008,747	-	1,219,659
Insulating waxes		-	432,063	-	596,311
Insulators, porcelain		-	2,003,740	-	3,188,337
Iron and steel (except alloy):					
Pig iron	net ton	3,911	206,217	4,994	277,971
Steel bars and rods	" "	17,047	3,235,575	24,108	4,758,469
Steel sheets and strip	" "	108,209	15,634,287	125,374	19,641,054
Steel wire	" "	19,164	4,150,846	21,878	4,338,150
Structural steel	" "	8,063	1,181,963	6,972	977,831
Scrap iron and steel	" "	2,341	104,163	5,434	219,507
Other iron and steel	-	-	9,696,085	-	15,163,492
Alloy steel:					
Carbon and alloy tool steel, including high-speed	-	-	152,751	-	260,186
Stainless	-	-	1,096,128	-	1,543,555
Silicon sheets and strips	net ton	32,248	7,336,159	37,113	11,237,134
Other alloy steel	-	-	700,139	-	953,310

**TABLE 5. Materials Used in the Electrical Apparatus and Supplies Industry,
1955 and 1956 — Concluded**

Material	Unit of measure	1955		1956	
		Quantity	Cost at works	Quantity	Cost at works
Lead:			\$		\$
Pig (pure)	lb.	53,453,469	7,680,451	53,914,276	8,219,588
Antimonial	"	38,426,064	5,897,585	38,386,582	6,132,559
Other	—	—	169,656	—	619,107
Lead oxide (litharge and red lead)	lb.	8,552,859	1,487,505	8,956,951	1,600,269
Lumber	M bd. ft.	11,180	1,289,669	13,115	1,635,103
Magnesium	lb.	19,955	12,327	29,406	28,497
Manganese dioxide	"	6,569,617	317,047	5,455,341	333,266
Mercury	"	15,190	62,676	16,842	64,610
Mica	"	492,589	625,859	515,960	763,347
Nickel-silver, all forms	—	—	348,876	—	534,821
Nitrogen	cu. ft.	5,260,980	43,520	6,436,902	56,709
Oil:					
Transformer	Imp. gal.	1,910,524	749,588	2,140,850	968,492
Switch	"	17,109	9,531	40,851	20,320
Paints, stains, lacquers, etc.	—	—	2,224,984	—	2,710,096
Radio and television cabinets	—	—	15,366,822	—	14,979,202
Radio and television parts for assembling	—	—	60,389,934	—	49,757,351
Radio and television tubes purchased and used to equip radio and television receiving sets made by manufacturer in own plant	No.	15,164,846	29,253,126	13,698,313	22,307,185
Refrigerator cabinets	—	—	517,899	—	248,331
Rubber:					
Crude	lb.	605,601	219,603	814,173	319,558
Other	—	—	1,836,268	—	2,099,846
Resistance wire	—	—	823,149	—	856,721
Silk, artificial	lb.	444,094	466,773	540,301	514,728
Silver	troy oz.	115,785	118,008	160,462	154,754
Steel tanks	—	—	1,027,764	—	1,269,724
Sulphuric acid, 100%	lb.	16,099,309	288,800	13,655,408	237,384
Talc	"	621,559	11,935	1,582,140	35,837
Tin	"	120,903	114,003	140,379	142,183
Tungsten wire	—	—	681,897	—	546,606
Wood battery separators	—	—	601,923	—	395,117
Zinc:					
Ingot and bars	lb.	3,836,215	548,321	5,085,627	683,532
Sheets and strip	"	534,209	89,836	971,734	199,587
Other	—	—	866,561	—	734,267
Zinc chloride	lb.	940,239	66,763	823,468	58,627
Electric motors, purchased	—	—	2,296,074	—	3,049,600
All other materials	—	—	174,994,784	—	218,068,576
Containers and packing material	—	—	7,806,302	—	9,235,370
Total materials	—	—	477,655,753	—	558,249,520



PRODUCTION*
IN
CANADA
FROM
ALL INDUSTRIES
OF
SPECIFIED ELECTRICAL
PRODUCTS
1946—1956



* PRODUCTION = SELLING VALUE AT WORKS.

TABLE 6. Factory Shipments¹ of Electric Generators and Parts, 1955 and 1956

	Number	Total rating	Selling value at works
			\$
1955			
A.C., 1000 k.v.a. and under:			
500 r.p.m. and above	72	13, 260 k.v.a.	357, 634
Under 500 r.p.m.	4	2, 788 k.v.a.	43, 015
A.C., 1001 k.v.a. and above, all speeds	25	652, 430 k.v.a.	7, 964, 597
D.C. and including exciters:			
½ k.w. and ¼ k.w.	22	13 k.w.	2, 000
1 k.w. to 1000 k.w.	253	7, 184 k.w.	518, 463
1001 k.w. and over	—	—	—
Accessories and parts for generators	—	—	392, 006
Total	—	—	9, 277, 715
1956			
A.C.:			
187 k.v.a. and under, any speed	332	14, 161 k.v.a.	689, 790
188 k.v.a. to 1000 k.v.a., any speed	43	14, 736 k.v.a.	249, 464
A.C., 1001 k.v.a. and above, all speeds	50	1, 073, 861 k.v.a.	9, 837, 507
D.C. and including exciters:			
Under ¼ k.w.	180	120 k.w.	4, 200
1 k.w. to 1000 k.w.	124	19, 146 k.w.	1, 148, 628
1001 k.w. and over	—	—	434, 685
Accessories and parts for generators	—	—	—
Total	—	—	12, 364, 274

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

TABLE 7. Factory Shipments of Electric Motors and Parts, 1955 and 1956 (From All Industries)

	Number	Total rating	Selling value at works
		H.P.	\$
1955			
Single phase, induction:			
½ h.p. and under ¹	954, 532	—	13, 326, 268
½ h.p. and ¼ h.p.	54, 882	—	2, 102, 428
1 h.p. to 5 h.p., inclusive	17, 848	32, 254	1, 557, 702
Polyphase, induction:			
½ h.p. and under ¹	5, 164	1, 469	145, 409
½ h.p. and ¼ h.p.	9, 804	6, 137	439, 857
1 h.p. to 5 h.p., inclusive	31, 618	77, 861	2, 622, 874
D.C.:			
½ h.p. and under ¹	519, 766	16, 904	1, 556, 692
½ h.p. and ¼ h.p.	261	173	23, 411
1 h.p. to 5 h.p., inclusive	112	305	34, 708
Polyphase, induction:			
6 h.p. to 25 h.p., inclusive	11, 677	148, 537	2, 557, 258
26 h.p. to 100 h.p., inclusive	3, 161	174, 990	2, 515, 566
101 h.p. to 200 h.p., inclusive	518	82, 355	1, 298, 740
201 h.p. and over	227	89, 201	1, 371, 014
D.C.:			
6 h.p. to 25 h.p., inclusive	213	3, 285	216, 202
26 h.p. to 100 h.p., inclusive	152	8, 393	403, 627
101 h.p. to 200 h.p., inclusive	994	289, 706	4, 375, 711
Railway and vehicle motors, A.C. and D.C.	248, 805	—	1, 164, 264
Shaded pole type motors, all ratings			
Universal type motors, all ratings			
Synchronous motors and condensers:			
1000 h.p. or k.v.a. and under	150	59, 657 k.v.a.	846, 765
1001 h.p. or k.v.a. and over	41	117, 610 k.v.a.	1, 100, 587
Sets of rotors and stators for hermetically-sealed refrigeration units, all ratings	—	—	2, 734, 602
Accessories and parts for motors	—	—	40, 393, 685
Total	—	—	40, 393, 685

1. Does not include shaded pole or universal motors.

TABLE 7. Factory Shipments of Electric Motors and Parts, 1955 and 1956
(From all Industries) — Concluded

	Number	Total rating	Selling value
			H.P. at works
			\$
1956			
Single phase induction:			
$\frac{1}{2}$ h.p. & under ¹	1,173,545	—	15,915,937
$\frac{1}{2}$ h.p. & $\frac{3}{4}$ h.p.	80,382	—	2,569,092
1 h.p. to 5 h.p. inclusive — open	14,258	25,623	1,262,801
— enclosed	1,339	3,413	118,680
Polyphase induction:			
$\frac{1}{2}$ h.p. & under ¹	4,550	1,252	111,631
$\frac{1}{2}$ h.p. & $\frac{3}{4}$ h.p.	11,636	7,093	476,672
1 h.p. to 5 h.p. inclusive — open	23,826	58,676	1,932,926
— enclosed	11,924	30,170	1,137,133
D.C.			
$\frac{1}{2}$ h.p. & under ¹	501,429	14,694	1,538,692
$\frac{1}{2}$ h.p. & $\frac{3}{4}$ h.p.	168	98	14,121
1 h.p. to 5 h.p. inclusive	176	438	53,645
Polyphase induction:			
6 h.p. to 25 h.p. inclusive — open	12,541	157,638	2,548,007
— enclosed	6,853	86,156	1,924,537
26 h.p. to 100 h.p. inclusive — open	2,477	126,161	2,021,853
— enclosed	1,845	98,462	1,580,914
101 h.p. to 200 h.p. inclusive — open	683	88,395	1,383,290
— enclosed	241	36,955	753,763
201 h.p. to 1,000 h.p. inclusive	454	183,473	3,690,782
1,001 h.p. & over			
D.C.			
6 h.p. to 25 h.p. inclusive	326	5,211	395,478
26 h.p. to 100 h.p. inclusive	365	25,347	960,457
101 h.p. to 200 h.p. inclusive	60	9,660	166,919
201 h.p. to 1,000 h.p.	1,944	757,540	10,516,295
1,001 h.p. & over			
Railway and vehicle motors, A.C. & D.C.			
Shaded pole type motors, all ratings	361,016	XXX	1,613,972
Universal type motors, all ratings			
Synchronous motors & condensers:			
200 h.p. or K.V.A. and under	61	9,644	401,839
201 h.p. to 1,000 h.p. or K.V.A.	128	68,800	1,244,802
1,001 h.p. or K.V.A. and over	62	120,180	2,014,996
Accessories and parts for motors	—	—	2,957,865
Total	—	—	59,307,099

1. Does not include shaded pole or universal motors.

TABLE 8(a). Factory Shipments of Transformers, by Types, 1955

Type	Number	Total rating	Selling value
		k.v.a.	\$
Distribution transformers, 200 k.v.a. and under and 15,000 volts and below, except dry type transformers, 2 k.v.a. and below			
	67,597	1,147,307	15,362,440
Power transformers, 201 k.v.a. to and including 7,500 k.v.a. and 15,000 volts to and including 132,000 volts	1,088	1,531,351	86,822,667
Power transformers, over 7,500 k.v.a. or over 132,000 volts	93	1,788,496	5,749,934
Feeder regulators — induction type	155	34,414	1,295,007
— step voltage type			
Current transformers	15,887	—	837,697
Potential transformers	3,796	—	323,742
Constant current transformers (street lighting)	1	1	1
Series lamp transformers	2,600	—	114,910
Luminous tube transformers	44,076	—	546,915
Ignition transformers (oil and gas)	201,464	—	1,523,827

1. Included with "All other transformers".

TABLE 8 (a). Factory Shipments of Transformers, by Types, 1955 — Concluded

Type	Number	Total rating k.v.a.	Selling value at works \$
Radio and TV transformers — Air core	935,000	—	295,587
— Powdered iron and therite core	5,849,836	—	2,386,806
— Laminated core	2,157,903	—	2,737,576
Electronic transformers (other than radio and TV)	259,963	—	1,259,321
Fluorescent transformers and ballasts	826,711	—	3,513,193
Mercury lamp transformers	1	1	1
Bell ringing and chime transformers	76,720	—	113,242
Control and signalling transformers	1	1	1
General purpose dry type transformers, up to and including 2 k.v.a.	47,547	—	418,348
All other transformers	—	—	3,208,234
Parts and supplies for transformers	—	—	1,515,507
Total	—	—	49,784,953

1. Included with "All other transformers".

TABLE 8 (b). Factory Shipments of Transformers, by Types, 1956

Type	Number	Total rating k.v.a.	Selling value at works \$
Distribution transformers, up to and including 200 k.v.a. 1 phase or up to and including 225 k.v.a. 3 phase — 15,000 volts and below, except dry type transformers 2 k.v.a. and below	79,991	1,477,055	20,102,540
Power transformers 7,500 k.v.a. and less, up to and including 138 k.v. class	1,518	2,122,135	13,345,328
Power transformers above 7,500 k.v.a. at all voltages, also all k.v.a. ratings in voltages above 138 k.v. class	149	5,026,791	13,476,740
Feeder regulators — single phase step voltage regulators	125	92,023	908,191
— three phase step voltage regulators with 750 k.v.a. of regulation or less			
— induction voltage regulators			
Current transformers — up to and including 15,000 volts	20,956	—	1,094,959
— above 15,000 volts			
Potential transformers — up to and including 15,000 volts	6,642	—	741,718
— above 15,000 volts			
Metering outfits (combination of current and potential transformers in one enclosure) — up to and including 15,000 volts	587	—	334,648
— above 15,000 volts			
Constant current transformers (street lighting)	1	—	1
Series lamp transformers	1	—	1
Luminous tube transformers	42,298	—	492,528
Ignition transformers (oil and gas)	183,612	—	1,438,393
Radio and TV transformers — Air core	2,114,725	—	743,217
— Powdered iron and therite core	4,070,244	—	2,181,141
— Laminated core	2,064,739	—	2,587,296
Transformers for electronic equipment (other than radio and TV)	150,080	—	1,137,470
Variable ratio transformers	1	—	1
Voltage stabilizing transformers	—	—	—
Fluorescent transformers and ballasts	1,253,653	—	4,715,949
Mercury lamp transformers	1	—	1
Bell ringing and chime transformers	1	—	1
Control and signalling transformers	31,050	—	329,867
General purpose dry type transformers, up to and including 2 k.v.a.	1	—	1
All other transformers	—	—	2,914,883
Parts and supplies for transformers	—	—	2,545,632
Total	—	—	69,090,500

1. Included in "All other transformers".

Note: Because of the revised breakdown available in 1956, totals for some of the above items are not strictly comparable with those for previous years.

TABLE 9. Factory Shipments of Conduit for Electrical Wiring, 1955 and 1956

Item	Unit of measure	1955		1956	
		Quantity	Selling value at works	Quantity	Selling value at works
Rigid conduit:			\$		\$
Steel and non-ferrous	lb.	49,103,312	7,189,000	55,947,847	9,444,420
Electrical metallic tubing, steel and non-ferrous	lb.	6,616,630	1,733,000	8,617,744	1,902,910
Flexible conduit (steel and non-metallic)	ft.	1,600,500	147,000	2,000,000	175,000
Total		—	9,069,000	—	11,522,330

TABLE 10. Factory Shipments of Electrical Switch Gear and Protective Equipment
(Except telephone switchboards), 1955 and 1956

Item	Selling value at works
1955	\$
Switchgear assemblies	8,845,122
Low voltage switchboards (fused or circuit breaker types)	2,555,966
Distribution, lighting and residential panelboards (fused or circuit breaker types)	4,620,579
Industrial and residential enclosed safety switches and circuit breakers	5,121,158
Miscellaneous cabinets, wireways, gutters, surface raceways (excluding conduit and metallic tubing) and bus ducts including feeder, plug and trolley types	1,988,000
Lightning arresters, other than radio, 15,000 volts and under	432,985
Lightning arresters, over 15,000 volts	535,839
Power circuit breakers	4,500,790
Low voltage air circuit breakers (except moulded case breakers)	2,122,665
Disconnecting switches	3,049,497
Power connectors (solder and solderless types) for terminating, tapping or through feeding individual electrical conductors (excluding service connectors)	1,734,752
Potheads	849,918
Power capacitors	1,174,594
Other switchgear and protective equipment	1,983,798
Total	39,515,663
1956	
Switchgear assemblies — metalclad switchgear, 5 kv and 15 kv with drawout oil circuit breakers	5,481,441
metalclad switchgear, 5 kv and 15 kv with drawout oilless circuit breakers (includes air and airblast breakers)	4,314,089
600 volt metal-enclosed switchgear (drawout or fixed breakers, but not including moulded case breakers)	2,783,319
control desks, duplex and open switchboards and supervisory control	2,115,544
other switchgear assemblies including cubicles, cubicle switchgear, bus trough (except 600 volts) station type cubicle switchgear, fuse-gear (over 600 volts) etc., but not including capacitor assemblies	2,536,325
Power circuit breakers (sold apart from assemblies and not including sectionalizers or reclosers) — indoor	1,239,485
— outdoor	4,792,027
Low voltage air circuit breakers (sold apart from assemblies but not including moulded case breakers)	1,879,473
Disconnecting switches — indoor type	518,411
— outdoor type	4,422,750
Lightning arresters — 15 kv and under	705,904
— over 15 kv	942,121
Power capacitors — units (sold apart from assemblies)	included with "other"
— assemblies (including units)	included with "other"
Low voltage switchboards (fused or circuit breaker types)	2,234,348
Distribution, lighting and residential panelboards (with fuses or moulded case circuit breakers)	5,530,707
Industrial and residential enclosed safety switches and circuit breakers	5,955,950
Miscellaneous cabinets, wireways, gutters, surface raceways (excluding conduit and metallic tubing) and bus ducts including feeder, plug and trolley types	2,922,163
Oil circuit reclosers and sectionalizers, up to and including 15,000 volts and repair parts	68,718
Potheads	included with "other"
Other switchgear and protective equipment	7,418,861
Total	55,861,636

TABLE 11. Production¹ of Electric Vacuum Cleaners and Parts, 1948-1956 (From All Industries)

Year	Floor models		Cylinder models		Hand models		Attachments and parts		Total	
	Number	Value	Number	Value	Number	Value	Number	Value	Number	Value
		\$		\$		\$		\$		\$
1948.....	33,583	1,992,757	85,002	4,008,347	2	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	2,121,966	90,837	5,587,627	5,145	93,420	—	1,114,719	—	8,917,732
1952.....	41,323	2,380,470	85,587	5,059,012	2,828	59,618	—	1,156,332	—	8,655,432
1953.....	37,126	2,239,354	70,833	4,334,187	7,705	137,497	—	1,211,414	—	7,922,452
1954.....	22,801	1,523,306	88,381	4,752,451	5,435	119,772	—	967,785	—	7,363,314
1955.....	19,795	1,341,000	125,711	6,832,000	—	—	—	1,008,000 ²	—	9,181,000
1956.....	20,727	1,541,838	145,621	8,105,948	—	—	—	529,668 ²	—	10,347,454

1. Factory shipments since 1952.

2. Includes hand models.

TABLE 12. Factory Shipments of Dry Cell Batteries, 1955 and 1956

Type	Unit of measure	Quantity	Selling value at works
			\$
1955			
Dry cell:			
6-inch batteries	No. of cells	2,048,321	1,045,237
Radio batteries for portable sets	" "	13,915,555	728,562
Radio batteries for non-portable sets	" "	29,578,275	2,603,396
Flashlight batteries	" "	27,301,492	2,518,111
Hearing-aid batteries:			
"A" batteries	{	—	482,904
"B" batteries			
All other dry batteries		—	
Total		—	7,378,210
1956			
Dry cell:			
6-inch batteries	No. of cells	1,767,879	973,877
Radio batteries for portable sets	" "	17,372,462	973,358
Radio batteries for non-portable sets	" "	22,829,947	2,174,457
Flashlight batteries	" "	29,273,855	2,774,050
Hearing-aid batteries:			
"A" batteries	{	—	888,446
"B" batteries			
All other dry batteries		—	
Total		—	7,784,188

ELECTRICAL APPARATUS AND SUPPLIES

TABLE 13. Factory Shipments of Electric Storage Batteries, by Types, 1955 and 1956

Type	1955		1956	
	Number	Selling value at works	Number	Selling value at works
For internal combustion engine starting and ignition	2,134,174	\$ 20,740,669	2,224,527	22,161,548
For farm lighting plants (cells)	24,652	270,747	23,781	234,233
For railway service (cells)	20,972	897,845	24,798	1,024,215
For direct motive power (industrial trucks, mine locomotives, etc.)	2,855	1,919,413	3,615	2,086,854
For all other purposes	-	1,344,720	-	1,772,344
Total	-	25,173,394	-	27,279,194

TABLE 14. Production¹ of Complete Radio Receiving Sets, 1947-1956

Year	Number of sets	Selling value at works	Year	Number of sets	Selling value at works
		\$			\$
1947	984,276	33,063,220	1952	567,738	22,178,626
1948	639,493	25,411,443	1953	737,457	28,021,087
1949	791,051	29,411,911	1954	487,620	16,509,275
1950	820,772	33,497,785	1955	621,957	19,176,618
1951	628,395	29,635,311	1956	740,656	23,877,863

1. Factory shipments since 1952.

TABLE 15. Production¹ of Television Sets, 1948-1956

Year	Number	Selling value at works
		\$
1948	4	931
1949	9,189	2,010,271
1950	32,971	7,764,952
1951	48,657	12,902,090
1952	141,946	30,072,795
1953	391,974	81,304,912
1954	611,206	105,682,414
1955	806,253	130,497,108
1956	613,895	94,506,905

1. Factory shipments since 1952.

TABLE 16. Production¹ of Radio and Television Receiving Tubes², 1947-1956

Year	Number	Selling value at works	Year	Number	Selling value at works
		\$			\$
1947	7,985,211	3,747,175	1952	7,221,495	4,672,927
1948	4,040,949	1,831,086	1953	12,803,162	8,476,680
1949	4,682,943	2,787,421	1954	11,368,561	6,608,481
1950	8,181,925	4,964,463	1955	15,054,395	8,990,760
1951	9,976,801	5,215,684	1956	15,777,865	10,291,750

1. Factory shipments since 1952.

2. Does not include television picture tubes.

TABLE 17. Production¹ of Flat Irons, 1947-1956

Year	Steam		Automatic		Non-automatic		Total	
	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works
		\$		\$		\$		\$
1947.....		Not available according to this 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
1952.....	107, 181	1, 135, 245	234, 535	1, 494, 987	92, 029	286, 489	433, 745	2, 916, 721
1953.....	160, 478	1, 666, 554	252, 306	2, 350, 136	69, 444	217, 026	482, 228	4, 233, 716
1954.....	234, 624	2, 509, 362	207, 620	1, 410, 704	54, 724	168, 614	496, 968	4, 088, 680
1955.....	330, 791	3, 347, 053	202, 299	1, 250, 161	65, 351	180, 000	598, 441	4, 777, 214
1956.....	424, 084	4, 332, 043	141, 086	853, 182	46, 681	161, 366	611, 851	5, 346, 591

1. Factory shipments since 1952.

TABLE 18. Production¹ of Electric Toasters, 1948-1956

Year	Domestic automatic		Domestic, non-automatic		Domestic, sandwich ²		Other ³		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
		\$		\$		\$		\$		\$
1948.....	22, 918	224, 392	189, 839	1, 070, 654	47, 763	276, 377	5, 581	25, 184	266, 101	1, 596, 607
1949.....	53, 885	756, 764	261, 928	1, 182, 910	67, 263	447, 593	1, 021	29, 048	384, 097	2, 416, 315
1950.....	52, 424	686, 852	228, 021	869, 703	46, 225	267, 508	258	10, 605	326, 928	1, 834, 668
1951.....	39, 031	591, 031	168, 576	716, 763	33, 667	197, 860	793	42, 724	242, 067	1, 548, 378
1952.....	26, 718	476, 225	127, 617	462, 441	41, 473	241, 606	2, 392	77, 137	198, 200	1, 257, 409
1953.....	134, 146	1, 903, 442	114, 775	328, 225	54, 477	274, 388	2, 646	16, 012	306, 044	2, 522, 067
1954.....	159, 878	2, 259, 324	110, 455	301, 333	38, 623	183, 271	275	12, 906	309, 231	2, 756, 834
1955.....	191, 558	2, 602, 882	110, 280	284, 403	40, 111	176, 996	199	13, 176	342, 148	3, 077, 457
1956.....	230, 387	3, 099, 672	94, 088	224, 276	49, 712	214, 639	274	15, 770	374, 461	3, 554, 357

1. Factory shipments since 1952.

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

3. Includes commercial type.

TABLE 19. Production¹ of Incandescent Electric Lamps (Bulbs), 1947-1956

Year	Standard size		Miniature size ²		Photo flash ³	
	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works
		\$		\$		\$
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	21, 657, 619	1, 967, 531	9, 228, 384	1, 067, 828
1953.....	77, 421, 515	12, 217, 077	30, 885, 185	2, 668, 048	15, 071, 759	1, 559, 285
1954.....	76, 193, 807	12, 088, 636	31, 422, 200	2, 591, 966	20, 057, 249	1, 914, 080
1955.....	81, 598, 979	12, 380, 118	41, 761, 596	3, 833, 266	25, 770, 117	2, 428, 869
1956.....	77, 555, 258	11, 806, 686	43, 054, 707	4, 178, 441	30, 939, 849	2, 581, 471

1. Factory shipments since 1952.

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

3. Not available separately prior to 1952.

TABLE 20. Production¹ of Fluorescent Electric Lamps (Bulbs), 1947-1956

Year	Number	Selling value at works
		\$
1947.....	2,899,330	1,522,527
1948.....	3,984,900	2,422,940
1949.....	5,359,484	3,383,134
1950.....	5,138,552	4,110,949
1951.....	5,262,530	3,252,267
1952.....	4,098,522	2,817,174
1953.....	4,882,012	3,598,998
1954.....	4,203,105	3,109,279
1955.....	5,005,823	3,561,358
1956.....	5,799,172	4,377,750

1. Factory shipments since 1952.

TABLE 21. Factory Shipments of Electrical Wires and Cables, 1955 and 1956 (From All Industries)

Item	1955	1956
	Value of factory shipments	Value of factory shipments
	\$	\$
Telephone cables — exchange	21,506,679	24,374,236
— toll and toll entrance	1,736,683	1,520,213
Telephone wires, insulated (drop wires, inside wires, other telephone wires)	5,068,048	6,191,032
Telephone switchboard wires and cables	4,753,926	5,829,764
Television and radio wires and cables	1,356,081	1,731,873
Accessory material for telephone cables	244,719	299,186
Telephone cordage	872,209	1,059,591
Bare wires and cables (other than copperweld and aluminum)	13,015,632	15,033,092
Bare copperweld wires and cables and copperweld-copper strands	1,231,499	1,873,767
Bare ACSR and aluminum wires and cables	13,418,226	16,288,236
Magnet wires and annunciator wires and cables	16,431,187	21,932,869
Weatherproof wires	13,081,124	13,961,368
Power cables (copper or aluminum conductors)	10,933,684	16,880,314
Signal and control cables	1,886,271	3,523,364
Portable and power supply cables	1,871,498	4,493,086
Building wires — non-metallic sheathed cables	9,112,570	10,061,881
— flexible armoured building cables	6,027,703	6,644,929
— other building wires (exclusive of types covered by preceding two items)	14,192,859	17,843,454
Flexible cords and fixture wires	3,516,781	4,926,386
Service and service entrance cables	1,385,860	2,566,739
Rubber-insulated and plastic-insulated wires and cables — general	6,312,177	4,902,383
Other wires and cables	2,776,737	4,580,664
Total	150,732,153	186,518,927

TABLE 22. Factory Shipments of Stoves Made in Canada, 1954-1956
(Data Assembled From All Industries)

		1954	1955	1956
Coal, wood and sawdust-burning cooking stoves and ranges, including ranges with gas or electric extension	No. \$	30,369 3,052,208	28,490 2,817,362	26,960 2,519,517
Coal, wood and sawdust-burning heating stoves and space-heaters, including all heaters, circulators, Quebec, box, oak, Franklin, globular and laundry	No. \$	42,242 643,412	48,852 760,857	45,427 730,228
Solid fuel and gas combination or oil and gas combination (not including stoves or ranges with gas extension)	No. \$	9,514 1,711,801	10,952 2,036,186	9,859 1,912,569
Solid fuel and electric combination or oil and electric combination (not including stoves or ranges with electric extension)	No. \$	8,275 1,833,984	8,226 1,870,198	9,639 2,122,177
Gas cooking stoves and ranges (not combinations), including all styles with ovens	No. \$	27,848 3,109,619	31,535 3,389,672	35,991 4,137,097
Gas heating stoves and space-heaters	No. \$	5,792 183,197	8,850 268,898	4,284 264,198
Gas cooking plates — no oven	No. \$	2,490 43,895	2,683 28,742	4,228 46,479
Electric cooking stoves or ranges (over 35 amperes), all styles with ovens	No. \$	167,716 25,340,646	199,132 30,933,531	217,159 33,225,480
Electric rangettes, including cord attachment and oven as one unit ..	No. \$	42,078 1,501,587	41,679 1,435,307	36,756 1,358,324
Electric cooking plates and grills, including stoves for glass coffee-makers	No. \$	173,954 975,556	191,811 999,602	203,285 892,045
Oil (kerosene) and gasoline cooking stoves and ranges	No. \$	41,644 435,722	73,540 628,913	1 1
Oil (kerosene) and gasoline heating stoves and space-heaters	No. \$	1,874 28,545	2,848 58,605	1 1
Fuel oil (distillate) cooking stoves and ranges	No. \$	8,273 1,188,577	10,659 1,557,462	12,477 1,790,140
Fuel oil (distillate) heating stoves and space-heaters	No. \$	49,333 2,421,166	59,385 2,864,089	71,973 3,469,232
Total	\$	42,469,915	49,649,424	—

1. Not available — less than 3 firms reporting.

TABLE 23. Production of Electric Welding Apparatus Welding Rod¹, 1947-1956

Year	Welding apparatus		Welding rod ²	
	Electric arc welding equipment with controls	Other electric welding apparatus ³	Quantity	Value of sales
				\$
1947	579,321	226,016	8,951	1,880,014
1948	764,033	232,215	10,494	2,315,402
1949	740,797	243,107	9,277	2,399,825
1950	894,397	108,406	10,436	2,708,819
1951	1,384,136	100,108	11,183	3,344,755
1952	1,494,781	272,015	16,597	5,459,228
1953	1,584,937	2,253,992	12,919	3,728,495
1954	1,213,051	1,530,201	11,926	3,634,811
1955	1,546,582	1,837,222	15,100	4,800,000
1956	2,324,099	3,215,817	20,230	6,823,000

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

2. Factory sales.

3. Includes "Resistance welding equipment with controls".

TABLE 24. Factory Shipments of Industrial Control Equipment, 1955 and 1956

Item	Value of factory shipments	
	1955	1956
	\$	\$
Traction control — railway and mine locomotive, trolley coach, street car and self-propelled battery-operated lift trucks	413,900	2,268,767
A.C. full voltage manual starters for use with single and polyphase motors	826,293	1,129,080
(a) A.C. full voltage magnetic starters (single-speed) 600 volt maximum	2,839,557	4,055,714
(a) A.C. magnetic contactors and relays	817,072	1,369,215
(a) A.C. reduced voltage starters, manual and magnetic, for use with squirrel cage induction motors, 600 volt maximum	571,496	920,464
(a) A.C. low voltage control centres (factory assembled groups of combination magnetic switches)	1,484,295	3,162,695
(a) Synchronous motor starters	383,676	552,958
A.C. magnetic starters and panels (exclusive of types covered by items marked (a))	1,804,793	2,539,363
A.C. and D.C. drum switches and dial starters; and resistors for use with drum switches	251,435	421,408
D.C. magnetic starters, contactors, relays and panels	589,879	1,570,511
A.C. and D.C. brakes	152,380	456,253
Accessories (pushbuttons, limit switches, etc.)	794,450	1,404,371
All other industrial control, including repair parts	2,331,260	4,050,423
Total	13,260,486	23,901,222

TABLE 25. Factory Shipments of Domestic Water-Tank Heaters, 1955 and 1956 (From all Industries)

	1955		1956	
	Number	Value of factory shipments	Number	Value of factory shipments
	\$			\$
Cast iron, for coal, wood or oil (120 gallons or less)	643	29,117	370	25,104
Gas, automatic	36,504	2,233,964	40,691	3,010,778
Gas, not automatic	10,428	146,785	8,637	268,483
Electric, circulating type	33,425	255,282	31,443	247,308
Electric, immersion type	203,328	556,577	224,522	778,161
Clamp-on type	23,405	98,588	15,498	68,921
Electric, automatic storage tank type, including tank and controls	48,921	3,341,753	58,243	3,741,428
Total	356,654	6,662,066	379,404	8,140,183

TABLE 26. Production¹ of Household Mechanical Refrigerators², 1947-1956

Year	Number	Selling value at works	Year	Number	Selling value at works
		\$			\$
1947	108,106	18,584,643	1952	244,433	46,046,709
1948	138,714	25,164,314	1953	275,415	50,943,211
1949	206,185	36,736,492	1954	229,964	44,037,931
1950	341,596	66,225,801	1955	271,532	49,548,437
1951	278,036	54,524,690	1956	269,213	47,443,349

1. Factory shipments since 1952.

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

TABLE 27. Factory Shipments of Refrigeration Equipment, 1955 and 1956 (From All Industries)

Type	1955		1956	
	Number	Selling value at works	Number	Selling value at works
Household refrigerators:		\$		\$
Household mechanical refrigerators, complete units (electric and gas), all sizes	271,532	49,548,437	269,213	47,443,340
Household ice refrigerators — Metal	53	5,300	—	—
Steel cabinets for mechanical refrigerators	2,866	143,590	2,256	211,095
Self-contained units:				
Milk coolers, all sizes	1,029	225,078	696	126,886
Ice-cream cabinets, all sizes	4,817	1,945,821	3,160	1,296,329
Beverage coolers, all sizes	6,273	2,238,138	7,265	2,524,652
Water-coolers, all sizes	—	89,887	239	51,678
Freezers — Frosted food cabinets	117	74,651	108	46,399
— Home freezers, all sizes	13,081	3,296,441	12,691	3,176,066
Fixtures:				
Display cases, normal temperature	2,805	2,112,067	2,809	2,226,729
Low-temperature refrigerators	—	—	817	675,436
Reach-in refrigerators (remote only)	609	299,521	472	216,727
Sectional walk-in coolers, all types	559	566,840	457	751,080
Self-contained commercial refrigerator products:				
Display cases, all sizes	1,636	1,141,436	1,459	944,034
Reach-ins, all sizes	465	238,296	608	259,013
Evaporators:				
Unit cooler type, all sizes	4,529	660,983	—	1,078,923
Fin coils, all sizes	6,847	421,095	—	510,372
Ice-makers — Domestic	—	311,046	—	55,573
— All other Sizes			—	—
Compressors and condensing units:				
Domestic, for assembly in individual household cabinets	23,398	1,625,761	36,841	2,149,335
Commercial — Low pressure	3,655	1,143,095	2,531	555,733
— Ammonia			—	—
Evaporative condensers:				
Low pressure	—	351,800	—	1,470,115
Ammonia	37	123,073	—	—
All other refrigeration equipment	—	7,792,495	—	8,787,930
Total	—	74,354,851	—	74,557,445

TABLE 28. Factory Shipments of Cutouts and Fuses, 1955 and 1956

Type	Selling value at works
1955	\$
Primary cutouts:	
15,000 volts and less, except oil type	1,447,387
Over 15,000 volts, except oil type	—
Power fuses, primary cutouts (oil type) and fuse links	413,000
Individual cutouts for cartridge and plug fuses	309,039
Cartridge fuses	611,535
Plug fuses	595,010
All other fuses	480,730
Renewal elements for fuses	197,502
Total	4,054,203

TABLE 28. Factory Shipments of Cutouts and Fuses, 1955 and 1956 — Concluded

Type	Selling value at works \$
1956	
Open, semi-enclosed and enclosed distribution cutouts (601 volts and above), indoor and outdoor fused disconnect switches including porcelain housed, removable switch blades for use there-with (not including fuse links therefor) and repair parts	1,587,325
Fuse links for distribution cutouts	392,560
Oil fuse cutouts including fuse links therefor and repair parts	18,300
Power fuses (solid material type) — up to and including 600 volts	—
Power fuses 601 volts and above (solid material and current limiting types), fuse supports, fuse mountings and repair parts	805,369
Fuse links for power fuses 601 volts and above (solid material and current limiting types)	1
Cartridge fuses	647,423
Plug fuses	627,548
Individual cutouts for cartridge and plug fuses	201,891
All other fuses	298,479
Renewal elements for cartridge fuses	1
Total	4,578,895

1. Included in "all other fuses".

TABLE 29. Factory Shipments of Electric Lighting, Fixtures 1955 and 1956 (From all Industries)

Type	Selling value at works	
	1955	1956
\$	\$	\$
Residential:		
Incandescent	4,268,000	5,064,000
Fluorescent	1,363,000	951,000
Commercial and industrial:		
Incandescent	4,386,000	3,199,000
Fluorescent	12,407,000	10,331,000
Street-lighting	2,727,000	3,595,000
Searchlights and floodlights	736,000	1,126,000
Other lighting equipment ¹	2,986,000	2,957,000
Total	28,873,000	33,223,000

1. Does not include floor lamps or table lamps.

TABLE 30. Factory Shipments of Wiring Devices, 1955 and 1956

Type	Selling value at works	
	1955	1956
\$	\$	\$
Incandescent sockets (lamp holders) — metal shell	285,246	236,128
— porcelain, plastic, rubber and others	1,072,709	1,138,228
Fluorescent sockets (lampholders) all types	220,703	382,985
Switches — surface and flush types (except switches enclosed safety type)	1,196,884	1,574,421
— appliance	1,439,654	1,491,475
— canopy, pendant and all others	439,783	448,342
Receptacles (convenience outlets) single and duplex	740,752	967,942
Wall plates for switches and outlets	353,827	410,267
Attachment plugs, caps and cord connectors	450,945	356,663
Heater (or appliance) plugs	115,661	141,769
Current taps and attachment plugs		
Cord sets (all types)	1,699,126	2,318,185
Outlet and switch boxes including covers	2,433,710	3,079,846
Outlet box connectors for armoured and non-metallic sheathed cable	870,933	984,788
Other wiring devices (except automobile starting switches and time switches)	3,269,933	3,305,000
Total	14,589,866	16,836,039

TABLE 31. Factory Shipments of Converter Equipment, 1955 and 1956

Type	Number	Total rating	Selling value at works
1955			
Motor-generator sets:			\$
A.C. to D.C.	268	44,271 k.w.	1,644,000
A.C. to A.C.	—	—	—
Synchronous converters and double-current generators	—	—	—
Dynamotors, balancer sets and boosters	—	—	—
Mercury arc rectifiers for power purposes	—	—	2,088,000
Parts and supplies for converter equipment	—	—	—
Total	—	—	3,732,000
1956			
Motor-generator sets — A.C. to D.C.	374	64,908	2,493,706
Frequency changer sets — A.C. to A.C.	—	—	188,089
Mercury arc and metallic rectifiers for power purposes	—	—	2,455,589
Parts and supplies for converter equipment	—	—	101,423
Total	—	—	5,238,807

TABLE 32. Production¹ of Pole Line Hardware, 1947-1956 (From All Industries)

Year	Selling value at works	Year	Selling value at works
\$			
1947	4,388,444	1952	10,212,583
1948	5,525,302	1953	8,169,035
1949	6,987,494	1954	8,065,000
1950	6,395,063	1955	9,130,000
1951	9,339,000	1956	11,888,000

1. Factory shipments since 1952.

TABLE 33. Production¹ of Domestic Washing Machines, 1947-1956 (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
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	3		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	253,538	27,547,065
1953	1	22	26,427	5,149,210	211,278	21,747,767	10,118	1,164,607	247,824	28,061,606
1954	—	—	27,629	5,448,977	192,198	18,780,608	6,411	712,684	226,238	24,942,269
1955	—	—	36,782	7,136,332	237,600	22,765,765	5,420	622,432	279,802	30,524,529
1956	—	—	49,765	9,292,117	250,879	23,552,620	5,278	636,245	305,922	33,480,982

1. Factory shipments since 1952.

2. Includes apartment size which amounted to 2,751 units valued at \$145,261 in 1951; 3,107 units valued at \$169,858 in 1952; 1,896 units valued at \$107,768 in 1953; 638 units valued at \$37,028 in 1954; 802 at \$49,750 in 1955, and 473 units valued at \$45,124 in 1956.

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

TABLE 34. Production¹ of Domestic Electric Ironing Machines, 1947-1956 (From All Industries)

Year	Number	\$	Year	Number	\$
1947	7,928	529,231	1952	12,316	906,010
1948	17,215	1,309,980	1953	11,112	886,979
1949	18,058	1,349,433	1954	6,020	530,035
1950	19,129	1,527,938	1955	3,900	367,000
1951	10,342	895,429	1956	4,647	380,000

1. Factory shipments since 1952.

TABLE 35. Production of Miscellaneous Electrical Appliances, 1954-1956

Item	1954		1955		1956	
	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works
		\$		\$		\$
Heating pads	112,948	407,570	132,574	526,497	174,453	563,875
Clothes dryers, automatic	20,775	3,017,964	38,027	5,191,454	55,389	7,743,393
Floor polishers	130,239	4,595,004	190,200	6,121,000	214,026	6,731,694
Coffee makers, domestic	64,426	478,853	113,718	1,143,112	137,687	1,348,719
Kettles	—	1	317,002	2,100,873	328,898	2,145,943
Fry pans	—	1	122,664	1,640,386	337,938	3,840,210
Shavers	—	1	288,862	3,947,032	281,805	3,945,799
Fans:						
Portable	135,241	1,521,000	166,029	1,754,023	217,779	2,181,778
All other	7,000	571,263	11,662	388,634	13,316	763,979

1. Not available.

TABLE 36. Production¹ of Watthour Meters, 1947-1956

Year	Quantity	Selling value at works	Year	Quantity	Selling value at works
	No.	\$		No.	\$
1947	427,642	5,101,814	1952	391,232	6,190,325
1948	502,461	5,894,750	1953	411,523	6,936,263
1949	597,500	7,204,878	1954	434,169	7,368,439
1950	488,932	6,668,164	1955	471,354	7,053,000
1951	509,752	7,211,494	1956	534,742	8,019,000

1. Factory shipments since 1952.

TABLE 37. Factory Shipments of Capacitors, 1955 and 1956 (From all Industries)

Item	1955		1956	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
Power capacitors.....	No.	\$	No.	\$
Radio and TV capacitors, including radio condensers	—	1,174,594	—	1,237,794
Capacitors for electronic application (other than radio and TV)	—	5,931,299	—	5,000,700
Fluorescent ballast capacitors	—	1,347,604	—	1,634,197
Miscellaneous capacitors.....	—	8,453,497	—	7,872,691
Total				

TABLE 38. Production Workers, by Months, 1955 and 1956

Month	1955			1956		
	Male	Female	Total	Male	Female	Total
Number						
January	34,524	14,820	49,344	37,006	16,677	53,683
February	34,576	14,619	49,195	38,340	16,354	54,694
March	34,468	14,381	48,849	39,211	16,498	55,709
April	34,541	14,123	48,664	39,037	16,489	55,526
May	34,990	14,233	49,223	39,214	16,335	55,549
June	35,558	14,841	50,399	39,847	16,612	56,459
July	35,017	15,168	50,185	39,827	16,468	56,295
August	36,740	16,702	53,442	40,975	17,438	58,413
September	36,593	18,231	54,824	41,293	17,578	58,871
October	35,608	18,747	54,355	41,777	17,715	59,492
November	35,869	18,450	54,319	41,535	17,373	58,908
December	36,296	17,204	53,500	40,885	16,258	57,143
Average	35,410	15,890	51,300	39,912	16,816	56,728

TABLE 39. Employees and Earnings in the Electrical Apparatus and Supplies Industry, by Provinces, 1955 and 1956

Province	Number of employees				Earnings			
	Supervisory and office		Production and related workers		Total employees	Supervisory and office	Production and related workers	
	Male	Female	Male	Female				
1955								
Nova Scotia and Quebec.....	4,892	1,865	9,904	3,942	20,603	28,809,917	45,241,745	74,051,662
Ontario	12,668	5,026	24,399	11,748	53,841	70,696,003	113,711,005	184,407,008
Manitoba	160	62	530	120	872	863,980	1,748,660	2,612,640
Alberta	62	9	132	17	220	147,032	435,549	582,581
British Columbia	149	51	445	63	708	938,528	1,439,055	2,377,583
Canada	17,931	7,013	35,410	15,890	76,244	101,455,460	162,576,014	264,031,474
1956								
Newfoundland, Nova Scotia and Quebec.....	6,448	2,154	11,208	4,750	24,560	34,394,786	55,273,436	89,668,222
Ontario	12,444	4,967	27,417	11,828	56,656	80,485,107	133,286,551	213,771,658
Manitoba	189	72	674	115	1,050	958,539	2,272,137	3,230,676
Saskatchewan and Alberta	28	11	153	14	206	177,274	500,771	678,045
British Columbia	182	73	466	103	824	1,310,588	1,863,611	3,174,199
Canada	19,291	7,277	39,918	16,810	83,296	117,326,294	193,196,506	310,522,800

**TABLE 40. Capital and Repair Expenditures in the Electrical Apparatus and Supplies Industry,
1952-1956**

Industry	Capital expenditures		Repair and maintenance expenditures		Total capital and repair expenditures	
	Construction	Machinery and equipment	Construction	Machinery and equipment		
\$'000						
1952						
Batteries	442	763	75	377	1,657	
Heavy electrical machinery and equipment	10,779	6,886	1,030	4,177	22,872	
Radios and radio parts ¹	1,572	1,710	397	1,052	4,731	
Refrigerators, vacuum cleaners, and appliances ..	4,066	4,891	301	1,442	10,700	
Miscellaneous electrical products	6,700	5,536	1,062	4,956	18,254	
Total	23,559	19,786	2,865	12,004	58,214	
1953						
Batteries	1,359	1,615	44	416	3,434	
Heavy electrical machinery and equipment	8,126	6,123	1,023	5,476	20,748	
Radios and radio parts ¹	2,501	3,490	403	1,084	7,478	
Refrigerators, vacuum cleaners, and appliances ..	1,140	2,182	258	1,511	5,091	
Miscellaneous electrical products	2,705	6,806	928	5,694	16,133	
Total	15,831	20,216	2,656	14,181	52,384	
1954						
Batteries	1,180	1,321	56	508	3,065	
Heavy electrical machinery and equipment	3,018	6,367	1,184	4,794	15,363	
Radios and radio parts ¹	2,769	3,883	566	1,491	8,709	
Refrigerators, vacuum cleaners, and appliances ..	1,925	1,753	292	1,038	5,008	
Miscellaneous electrical products	2,971	6,843	1,002	5,631	16,447	
Total	11,863	20,167	3,100	13,462	48,592	
1955						
Batteries	175	823	75	449	1,522	
Heavy electrical machinery and equipment	1,921	5,073	753	4,332	12,079	
Radios and radio parts ¹	1,398	4,265	453	1,491	7,607	
Refrigerators, vacuum cleaners, and appliances ..	1,386	1,895	333	1,083	4,697	
Miscellaneous electrical products	3,229	8,481	1,218	5,961	18,889	
Total	8,109	20,537	2,832	13,316	44,794	
1956 ²						
Batteries	212	518	107	547	1,384	
Heavy electrical machinery and equipment	3,840	6,181	768	4,268	15,057	
Radios and radio parts ¹	1,392	3,760	476	1,121	6,749	
Refrigerators, vacuum cleaners, and appliances ..	633	2,532	291	1,074	4,530	
Miscellaneous electrical products	7,115	13,475	1,414	6,490	28,494	
Total	13,192	26,466	3,056	13,500	56,214	

1. See footnote to Table 2.

2. Preliminary.

TABLE 41. Imports and Exports of Selected Commodities Considered to be of Interest to the Electrical Industry, 1955 and 1956

Product	1955		1956	
	Quantity	Value	Quantity	Value
		\$		\$
(a) IMPORTS:				
Batteries for flashlights, and parts	—	119,858	—	69,517
Batteries, hearing-aid, and parts	—	435,967	—	339,885
Batteries, electric and galvanic primary, and complete parts, n.o.p.	—	365,270	—	519,539
Storage batteries, n.o.p., and parts, including separator walls of wood	—	2,169,377	—	2,046,040
Cleaners, electric vacuum	No. 94,140	3,243,875	120,136	4,202,280
Cleaners, hand-vacuum, and attachments, and complete parts of all vacuum cleaners	—	1,734,939	—	2,341,889
Cooking stoves, electric, valued at more than \$25 each	No. 22,350	2,638,054	16,064	1,928,951
Space-heating and cooking apparatus, electric, n.o.p.	—	3,424,845	—	4,555,915
Heating apparatus, electric, other than for cooking or space-heating	—	1,479,532	—	2,105,356
DYNAMOS OR GENERATORS, and parts	—	10,225,155	—	15,629,989
Fuses, fuse plugs and cutouts, electric, and complete parts, n.o.p.	—	1,033,995	—	1,422,541
Fluorescent tubes and other arc lamps	No. 1,065,385	816,160	864,808	672,057
Home or farm freezers, electric	" 47,847	9,652,774	46,372	8,488,531
Photoflash lamps	" 3,933,131	255,934	5,712,111	298,805
Lamps, electric, incandescent, carbon filament	" 1,015	363	6,079	1,348
Lamps, electric, incandescent, metal filament	" 23,839,386	2,734,193	26,109,833	2,659,064
Lights - electric, head, side and tail lights, n.o.p.: electric torches or flashlights and parts	—	1,544,768	—	1,471,496
Electric light fixtures and appliances, n.o.p., and complete parts	—	6,096,249	—	6,654,987
Lightning arresters, choke coils, reactors and other protective devices, and complete parts, n.o.p.	—	384,568	—	636,498
Magneton and complete parts, for the manufacture of internal combustion engines	—	38,617	—	79,077
Electrical instruments and apparatus of precision of a class or kind not made in Canada, as enumerated in tariff item 445n.	—	7,175,636	—	9,256,966
Meters, electric, and complete parts	—	2,475,025	—	3,570,459
Motors, electric, valued at less than \$10 each	No. 87,096	341,135	159,997	539,917
Motors, electric, n.o.p., valued at \$10 or over and complete parts	—	12,841,349	—	19,768,125
Refrigerators, electric, domestic or store, completely equipped or not	No. 104,151	17,847,101	109,832	18,734,907
Refrigerators, n.o.p., equipped or not	" 2,903	318,414	3,352	359,825
Refrigerators, parts of	—	16,116,530	—	17,039,156
Rheostats, controllers and other starting and controlling devices, and parts, n.o.p.	—	8,559,359	—	12,562,250
Sad irons, electric, and parts	—	719,966	—	734,837
Self-contained lighting outfits and parts, n.o.p.	—	66,385	—	32,966
Sockets, outlets and receptacles and parts, n.o.p.	—	2,641,443	—	2,826,526
Spark plugs, magnetos, n.o.p., and other ignition apparatus and parts	—	395,135	—	784,190
Switches, switchboards, n.o.p., circuit breakers and parts ...	—	11,431,012	—	17,456,021
Switch gear, flame-proof, electric, for use underground in coal mines, and parts	—	74,724	—	178,376
Telegraph apparatus, electric, and parts	—	2,662,179	—	7,550,355
Telephone apparatus, electric, and parts	—	12,222,128	—	16,477,431

TABLE 41. Imports and Exports of Selected Commodities Considered to be of Interest to the Electrical Industry, 1955 and 1956 – Continued

Product	1955		1956		
	Quantity	Value	Quantity	Value	
		\$		\$	
(a) IMPORTS:— concluded:					
Television receiving sets	No.	6,012	513,006	8,341	789,932
Transformers and parts, n.o.p.	"	—	6,594,590	—	10,144,366
Washing machines, electric domestic	No.	31,372	3,681,445	33,983	4,479,242
Washing machines, domestic, parts of	"	—	2,991,219	—	4,289,267
Radio tubes	No.	14,391,767	12,633,787	8,588,435	8,894,557
Radio receiving sets	"	39,938	1,305,635	78,393	2,168,640
Radio receiving sets, parts of, as enumerated in tariff item 4450	"	—	8,901,712	—	6,769,445
Radio tube parts as enumerated in tariff item 445p	"	—	6,269,423	—	7,347,073
Radio and wireless apparatus, electric, n.o.p.	"	—	61,002,135	—	44,726,775
Electric dry-shaving machines, for use in removing human hair, and parts thereof	"	—	3,611,989	—	3,817,367
Electric steam turbo generator sets, 700 h.p. and greater, of a class or kind not made in Canada, and parts	No.	7	4,723,455	27	6,515,869
Electric or gas welding apparatus, not including motors	"	—	4,897,825	—	7,492,596
Sound equipment	"	—	2,807,462	—	4,037,589
Electrical apparatus, n.o.p., and parts	"	—	24,404,466	—	28,542,467
Welding rods or welding wires of all kinds	Cwt.	105,771	2,866,471	174,403	4,353,636
Equipment for generating electric power for farm purposes only	"	—	77,752	—	72,993
Sewing machines	No.	131,193	4,415,345	163,097	5,333,381
Dental engines, electric	"	679	215,888	275	48,309
Ice-making and regrigerating machinery, n.o.p., and parts	"	—	6,206,791	—	7,981,267
Water turbines, n.o.p., and parts	"	—	719,874	—	834,762
Air-conditioning apparatus, including blowers and ventilating machinery, and parts	"	—	6,886,888	—	11,912,989
Air conditioners, room size	No.	6,682	988,784	24,812	3,844,880
Ironers, domestic electric	"	2,080	193,448	1,490	110,562
Clothes dryers, domestic electric	"	10,643	1,451,116	10,994	2,091,157
Oil burners, n.o.p.	"	8,627	875,277	5,349	541,963
Heating and cooking apparatus, parts of	"	—	11,286,172	—	14,614,153
Industrial furnaces and parts	"	—	2,408,242	—	3,233,170
Water heater parts, including automatic pilots, thermostatic and other controlling devices	"	—	376,417	—	558,045
Water heaters, gas	No.	25,426	1,339,135	18,478	946,123
Water heaters, electric	"	19,408	864,263	23,412	967,978
Water heaters, n.o.p.	"	3,403	202,686	4,150	237,777
Aluminum wire and cable, twisted, stranded or not, reinforced with steel or not	Cwt.	1,830	99,723	18,787	676,785
Copper wire, n.o.p.	Lb.	121,645	71,914	193,483	186,350
Non-ferrous wire, single or several, covered with any material, including cable so covered	"	—	4,535,653	—	8,968,891
Non-ferrous wire, twisted, braided or stranded, including wire rope and wire cable, coated or not, n.o.p.	"	—	249,543	—	657,750
Non-ferrous wire of all kinds, n.o.p.	"	—	459,093	—	802,833
Insulators, electric, porcelain and parts	"	—	475,025	—	1,136,692
Insulators, electric, n.o.p., and complete parts	"	—	542,332	—	777,638
Phonographs, graphophones, gramophones and finished parts	"	—	800,669	—	1,132,393
Phonographs, coin-operated	No.	—	894,216	1,992	1,180,435
X-ray apparatus	"	—	3,555,885	—	3,636,780

TABLE 41. Imports and Exports of Selected Commodities Considered to be of Interest to the Electrical Industry, 1955 and 1956 — Concluded

Product	1955		1956		
	Quantity	Value	Quantity	Value	
(b) EXPORTS:		\$		\$	
Storage batteries	No.	5,966	91,849	4,384	53,699
Storage battery parts		—	144,367	—	68,948
Batteries and parts, n.o.p.		—	61,329	—	71,856
Radio receiving sets (except batteries)	No.	10,164	955,294	5,662	541,328
Radio and wireless apparatus, n.o.p. (except batteries)		—	4,802,993	—	6,080,559
Telegraph and telephone apparatus, n.o.p.		—	2,066,113	—	2,486,096
Transformers and parts		—	1,625,100	—	669,162
DYNAMOS AND GENERATORS, AND PARTS		—	1,450,046	—	1,676,961
Electric meters and parts		—	1,394,288	—	2,006,718
Electric motors and parts	No.	95,370	1,304,223	62,341	2,146,921
Electric stoves and parts	"	675	120,395	949	184,254
Electric heating and cooking devices, domestic, n.o.p.		—	97,286	—	75,405
Spark plugs		—	2,114,495	—	1,630,513
Electrical parts for vehicles and engines		—	120,195	—	268,977
Switches, sockets and other wiring devices		—	196,910	—	106,955
Electric lamps and shades		—	36,859	—	36,580
Electric light fixtures and parts		—	109,581	—	162,220
Washing machines, domestic, electric	No.	6,635	558,136	11,415	947,679
Electric vacuum cleaners and parts	"	18	5,961	16	5,497
Refrigerators and parts, power	"	4,564	529,379	3,368	398,004
Electrical apparatus, n.o.p.		—	4,226,613	—	3,399,799

TABLE 42. Fuel and Electricity Used¹ in the Electrical Apparatus and Supplies Industry, 1956

Kind	Unit of measure	Quantity	Cost at plant
		\$	
Bituminous coal (a) From Canadian mines	ton	8,221	89,658
(b) Imported	ton	84,443	971,108
Sub-bituminous coal (from Alberta mines only)	ton	32	447
Anthracite coal	ton	4,033	99,024
Lignite coal	ton	826	6,142
Coke (for fuel only)	ton	4,017	73,633
Gasoline, (including gasoline used in cars and trucks)	imp. gal.	970,816	363,137
Kerosene or coal oil	imp. gal.	9,370	2,322
Fuel oil	imp. gal.	15,139,346	1,937,418
Gas (a) Liquefied petroleum gases (propane, etc.)	imp. gal.	581,663	101,584
(b) Other manufactured gas	1,000 cu. ft.	416,393	361,051
(c) Natural gas	1,000 cu. ft.	263,243	298,523
Other fuel	—	—	323,614
Electricity purchased	k.w.h.	502,939,137	4,536,606
Total	—	XXXXX	9,164,267
Electricity generated for own use	—	16,254,000 k.w.h.	—

1. Last reported in 1953.

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1956

Name of firm	Location of plant
(a) Batteries	
Newfoundland: Hanning Electric Co. Ltd.	Topsail Hill, St. John's
Quebec: Cipel (Canada) Ltd. Hart Battery Division, The Linseed Oil Co. Ltd. New Era Battery Company Service Specialty Company Ltd.	Rue Notre Dame, Valleyfield 170 St. George St., St. Johns 2240 Bellechasse St., Montreal 90 Bates Road, Outremont
Ontario: Burgess Battery Company Electric Storage Battery Co. (Canada) Ltd.	415 Buttrey St., Niagara Falls 153 Dufferin St., Toronto & 663 Warden Ave., Scarborough & 269 Campbell Ave., Toronto. 228 St. Helen's Ave., Toronto Oshawa Ajax Maple St., Kingston and Fort Erie 1300 Barton St. E., Hamilton 680 Wyandotte St. E., Windsor 805 Davenport Road, Toronto and Walkerton 1352-60 Dufferin St., Toronto 374 Barton St. E., Hamilton
Manitoba: Globelite Batteries Limited Master Battery Co. Ltd. Ray-O-Vac (Canada) Limited	1021 Winnipeg Ave., Winnipeg 307 Talbot St., Winnipeg Barry St. and Sargent, St. James
Alberta: Alberta Battery Company Ltd. Electric Storage Battery Co. of Canada Ltd. Gould-National Batteries of Canada, Ltd. Prest-O-Lite Battery Co. Ltd.	1312 Centre St. S., Calgary 104-58th Ave., Calgary 510C-6th St. E., Calgary 58th Ave. & 4th St. S. E., Calgary
British Columbia: Dollina Enterprises Ltd. Francis Battery Service Giant Battery Co. Ltd. Globelite Batteries (B.C.) Limited Jones Bros. Batteries, Limited Major Batteries Ltd. Marshall Batteries Ltd. Russell Batteries X-LKO-Manufacturing Ltd.	901 E. Hastings, Vancouver 1412 Quadra St. W., Victoria 1290 Howe St., Vancouver 8650 Barnard St., Vancouver 1314 Quadra St., Victoria 271 Ingram St., Duncan 532 E. Broadway St., Vancouver 16 Nicol St., Nanaimo 1655 Main St., North Vancouver
(b) Heavy Electrical Machinery and Equipment	
Quebec: Air Reduction Canada Limited Alpha Electronic Products Co. Ltd. Beaupre Engineering Works Co. Bepco Canada Ltd. Brown, Boveri (Canada) Ltd. Cemco Switchgear Ltd. Devoe Electric Switch Co. Ltd., The Electrical Mfg. Co. Ltd. Electric Tamper & Equipment Co. of Canada Ltd. Electric Switchgear (1953) Ltd. Hughes, Benjamin, Electric Company Les Transformateurs Ponco Ltée	905 Hodge St., Montreal 205 St. Zotique St., Montreal 3935 Newmarch St., Verdun 4018 Ste. Catherine St. W., Montreal St. Johns 561 Maisonneuve Street, Granby 475 Metropolitan Blvd., Lachine 4th St., Montmagny 160 St. Joseph St., Lachine 115 St. Denis Ave., St. Lambert, Montreal 12050 Reed St., Montreal 3950 Wellington St., Verdun
Ontario: Acme Electric Corporation Ltd. Allanson Armature Mfg. Co. Ltd. Allen-Bradley Canada Ltd. Amalgamated Electric Corp. Ltd.	Northline Rd. #50, Toronto 33 Cranfield Rd., Toronto 135 Dundas St., Galt 384 Pape Ave., Toronto

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1956—Continued

Name of firm	Location of plant
(b) Heavy Electrical Machinery and Equipment — Concluded	
Ontario — conculed:	
Amplifone	11 Water St. Belleville
Bogue Electric of Canada, Ltd.	River Rd., Billings Bridge
Bull Dog Electric Products Company (Canada) Ltd.	80 Clayson Road, Toronto
Canadian Allis Chalmers Limited	55 Burwell Rd., St. Thomas
Canadian Atlas Transformer Co. Ltd.	17 Carlaw Ave., Toronto
Canadian Controllers Limited.....	1550 Birchmount Rd., Scarborough
Canadian Electric Box and Stampings Ltd.	1402 Queen St. E., Toronto
Canadian Fractional Motors Co. Ltd.	Wiarton
Canadian General Electric Co. Ltd.	Guelph
Canadian General Electric Co. Ltd.	940 Lansdowne Ave., Toronto
Canadian General Electric Co. Ltd.	107 Park St., Peterborough
Canadian Rockweld Ltd.	46 Northline Rd., Toronto
Canadian Sterling Electric Ltd.	430 Cannon St. E., Hamilton
Canadian Westinghouse Co. Ltd.	286 Sanford Ave. N., Hamilton & Stratford
Cansfield Electrical Works Limited.....	260 Geary Ave., Toronto
Crompton Parkinson Electrical Ltd.	Shaver St., Brantford
Dominion Cutout Co. Limited	250 Richmond St. W., Toronto
Dresser Electric Ltd.	877 Walker Rd., Windsor
Eastern Power Devices Limited.....	2401 Dixie Rd., Port Credit
English Electric Company of Canada Ltd.	George Street, St. Catharines
Ferranti Electric Limited	Industry St., Mount Dennis, Toronto
F. H. Welding Machines Ltd.	92 North Queen St., Toronto
Hammond Manufacturing Co. Ltd.	40 Wellington St. W., Guelph
Hunt Capacitors (Canada) Ltd.	Ajax
Jones & Moore Electric Co. Ltd.	296 Adelaide St. W., Toronto
Leland Electric Canada Ltd.	50 Crimea St., Guelph
Lincoln Electric Co. of Canada Ltd.	179 Wicksteed Ave., Leaside
Link Welder of Canada Ltd.	2930 College Ave., Windsor
Lovatt Engineering Limited	3545 Danforth Ave., Toronto
Mechron Engineering Products Ltd.	2437 Kaladar Ave., Ottawa
Moloney Electric Co. of Canada Ltd.	213-219 Sterling Road, Toronto
Nelson Stud Welding Corp. (Canada) Ltd.	108 Tycos Dr., Toronto
Packard Electric Co. Ltd.	Race Street, St. Catharines
Powerlite Devices Ltd.	54 Atomic Ave., Toronto
Progressive Welder (Canada) Ltd.	635 Richmond St., Chatham
Redmond Motors of Canada Ltd.	121 Woodworth Ave., St. Thomas
Reliance Electric & Engineering (Canada) Limited	130 Dennistoun St., Welland
Richardson-Alen of Canada Ltd.	1236 Birchmont Rd., Scarborough
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
Super Motor & Electric Ltd.	85 Edwin St., Kitchener
Supreme Power Supplies Ltd.	Newcastle & Audley Sts., Mimico
Trans-Coil Products	123 Manville Rd., Scarborough
Union Switch Box Co. Ltd.	35 McCaul St., Toronto
Ward Leonard of Canada Ltd.	1070 Birchmont Rd., Toronto
Weld-O-Matic Machines Ltd.	519 Parkdale Ave. N., Hamilton
Manitoba:	
Amalgamated Electric Corp. Ltd.	677 Notre Dame Ave., Winnipeg
C. T. Electrical Controls & Subsidiary Melco Electric Co. Ltd.	11th St. & Richmond Ave., Brandon
Pioneer Electric Limited.....	1 Rockwood Place, Fort Garry
Universal Manufacturing	194 Osborne St., Winnipeg
Saskatchewan:	
Pioneer Electric (Sask.) Ltd.	1800 — 1st Ave., Regina
Alberta:	
Pioneer Electric Alberta Ltd.	5727 — 53A Ave., Red Deer
British Columbia:	
British Columbia Transformer Co. Ltd.	4204 Lougheed Hwy., North Burnaby
Cemco Electrical Mfg. Co. Limited	22 E. 5th Avenue, Vancouver
Electric Panel Manufacturing Ltd.	1100 W. 6th Ave., Vancouver

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1956 — Continued

Name of firm	Location of plant
(c) Telecommunication Equipment (Formerly Radios and Radio Parts)	
Nova Scotia: Cessor (Canada) Ltd.	301-303 Windsor St., Halifax
Quebec:	
Aerialite (Canada) Ltd.	5275 Cote St. Paul Rd., Montreal
Amplitrol Electronics Ltd.	7080 Hutchison St., Montreal
Audio-Vox Company	4510 DeLaroche, Montreal
Berry, C. M.	Montreal Airport, Dorval
Canadian Aviation Electronics Ltd.	8280 St. Lawrence Blvd., Montreal and 6214 Cote De Liesse Road, Montreal
Canadian Marconi Company	2442 Trenton Road, Montreal
Chaput, Paul, Limitée	2626 Bates Rd., Montreal
Darcy J. H. Limited	2215 Beaconsfield Rd., Montreal
Electrical Products Mfg. Co. Ltd.	5680 Fullum St., Montreal
Electrolabs Reg'd.	7385 St. Lawrence Blvd., Montreal
Electronic Enterprises Ltd.	930 St. George St., Montreal
King's Electronics (Canada) Ltd.	4 Valois Circle, Valois
Lifco Record Players	408 St. James St. W., Montreal
Montreal Phono Reg'd.	207 Common St., Montreal
Multi-Vox Ltd.	9967 St. Michel Blvd., Montreal
Norel Electrical Products	282 Ontario St. W., Montreal
RCA Victor Company Limited	1001 Lenoir St., Montreal
Radio Communications Equipment & Engineering Ltd.	850 Fifth Ave., Lachine
Radio Engineering Products Ltd.	325 Decelles St., Granby
Record Players Corp.	9500 St. Lawrence Blvd., Montreal
Shelburn Industries (Canada) Ltd.	642 de Courcelle St., Montreal
Standard Telephones and Cables Mfg. Co. (Canada) Ltd.	9600 St. Lawrence Blvd., Montreal
Still Electronics	4367 Papineau St., Montreal
Supior Electronics Inc.	7205 St. Urbain St., Montreal
Televox Systems Reg'd.	788 St. Bernard St., Montreal
Ontario:	
Addison Industries Ltd.	9-11 Hanna Ave., Toronto
Aerovox Canada Limited	1551 Barton St. E., Hamilton
Andrew Antenna Corp. Ltd.	606 Beech St., Whitchurch
Antiference (Canada) Ltd.	169 Bartley Dr., Toronto
Arrow Radio Co.	1829 Davenport Rd., Toronto
Audio Transformer Co.	202 Regina St., Waterloo
Automatic Coil Mfg. Ltd.	50 Wingold Ave., Toronto
Automatic Radio of Canada, Ltd.	56 Esplanade St. E., Toronto
Baldwin-International Limited	3006 Bloor St. W., Toronto
Beama Engineering Ltd.	361 King St. E., Toronto
Benco Television Associates Ltd.	278 Bridgeland Ave., Downsview
Bennett and Collins Ltd. Mfg. Division	5 Thorpe St., Dundas
Cahoon, L. D., & Company Ltd.	2271 Danforth Ave., Toronto
Canadian Admiral Corp. Ltd.	501 Lakeshore Rd., Port Credit
Canadian Arsenals Limited, Instrument & Radar Division	651 Warden Ave., Scarborough
Canadian Astatic Limited	2271-2273 Danforth Ave., Toronto
Canadian General Electric Co. Ltd.	830 Lansdowne Ave., Toronto
Canadian General Electric Co. Ltd.	189 Dufferin St., Toronto
Canadian Radio Mfg. Corp. Ltd.	11-19 Brentcliffe Rd., Toronto
Canadian Stack Pole Ltd.	550 Evans Ave., Toronto
Canadian Westinghouse Co. Ltd.	Brantford
Canadian Westinghouse Co. Ltd.	Hamilton
Cannon Electric Canada Ltd.	160 Bartley Drive, Toronto
Capital Television Ltd.	2197 Gerrard St., Toronto
Centralab Canada Ltd.	Ajax
Collins Radio Co. of Canada Ltd.	11 Bermondsey Rd., Toronto
Consolidated Electronic Equipment Co. Ltd.	1156 Yonge St., Toronto
Copper Wire Products Ltd.	300 Campbell Ave., Toronto
Crosley Radio & Television Division Moffats Ltd.	Gibson and Wright Avenues, Toronto
Crown Metal Products	P.O. Box 203, Belmont
Deca Mfg.	870 Eastern Ave., Toronto
Delhi Metal Products Co.	Waverly St., Delhi
Delhi Television Products	111 Main St., Delhi
Dominion Electrohome Industries Ltd.	480 Victoria St., Kitchener
Electronic Controls Ltd.	32 Alcom Ave., Toronto
Electronic Matierials International Ltd.	342 Gladstone Ave., Ottawa
Electronics Corp. of America (Canada) Ltd.	104 Advance Rd., Toronto

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1956 — Continued.

Name of firm	Location of plant
(c) Telecommunication Equipment — Concluded	
Ontario — concluded:	
Eric Marsland & Co.	824 Victoria St. N., Kitchener
Erie Resistor of Canada Ltd.	7 Fraser Ave., Trenton
Essex Electronics of Canada Ltd.	99 Wragge St., Trenton
Farley, T. S., Limited	174 Catherine St. N., Hamilton
General Instruments — F. W. Sickles of Canada Ltd.	Weber St. S., Waterloo
Glaser-Steers of Canada Ltd.	99 Wragg St., Trenton
Hackbusch Electronics Ltd.	23 Primrose Ave., Toronto
Hallicrafter Canada Ltd.	Don Mills
High Frequency Development Co.	3468 Dundas St., Toronto
Industrial Electronics of Canada	83 Torbarrie Rd., Toronto
International Resistance Co. Ltd.	349 Carlaw Ave., Toronto
Kelton Ultrasonics Ltd.	181 King St., London
Lindsay Antenna Products	11 Wellington St., Lindsay
Marsland Engineering Ltd.	154 Victoria St., Kitchener
Marsland, Eric, & Co.	824 Victoria St., Kitchener
McCurdy Radio Industries	22 Front St. W., Toronto
Measurement Engineering Limited	Arnprior
Meredith, C. C., & Co. Limited	Thomas Street, Streetsville
Methodex Mfg. Canada Ltd.	14 Raitherm Road, Toronto
Motorola Canada Ltd.	211 Geary Ave., Toronto
Northern Electric Co. Ltd.	250 Sidney St., Belleville
Northern Radio Manufacturing	1950 Bank St., Ottawa
Philco Corporation of Canada Ltd.	Don Mills Road, Don Mills
Precision Electronic Components Ltd.	50 Wingold Avenue, Toronto
Pye Canada Limited	82 Northline Rd., Toronto
Quality Hermetics Ltd.	45 Hollinger Rd., Toronto
Radio Components Ltd.	50 Wingold Ave., Toronto
Radio Condenser Co. Ltd.	6 Bermondsey Rd., Toronto
Radio Speakers (Canada) Ltd.	37 Hanna Ave., Toronto
RCA Victor Company Limited	Prescott
Rotronic Corp. Ltd.	380 Adelaide St. W., Toronto
Sinclair Radio Laboratories Ltd.	70 Sheffield St., Toronto
Smallwood, S. G., Limited	397 King St. E., Kitchener
Snelgrove, C. R., Co. Ltd.	141 Bond St., Don Mills
Sonograph Engineering & Mfg. Co. Ltd.	122 Laird Dr., Leaside
Soundmaster Equipments	283½ Bank St., Ottawa
Sparton of Canada Limited	Elm and Pine Sts., London
Speight, N. H., Laboratories	145 Wellington St. W., Toronto
Standard Television Products Ltd.	108 Sydney St., Kitchener
Stanwyck Coil Products Ltd.	17 Laurier St., Hawkesbury
Stewart-Warner Corp. of Canada Ltd.	MacDonald Avenue, Belleville
Sylvania Electric (Canada) Limited	Broad Street East, Dunnville
Telecom Limited	163½ Church St., Toronto
Telequipment Mfg. Co.	729 Dundas St. (rear), London
Tenatronics Ltd.	Davis Drive, Newmarket
Valeriote Electronics Ltd.	3 Victoria Road, Guelph
Varian Associates of Canada Ltd.	45 River Drive, Georgetown
Welwyn Canada Ltd.	1255 Brydges St., London
Winchester Electronics Co. Ltd.	362 Chilver Rd., Windsor
Wright, W. Gary, Electronics of Canada Ltd.	628 Kent St. W., Whitby
Manitoba:	
Canadian Aviation Electronics	387 Sutherland Ave., Winnipeg
Alberta:	
Electronic Research & Development Co. Ltd.	512-9th St. W., Calgary
British Columbia:	
Barvic Engineering Limited	1285 Homer St., Vancouver
Ekolite Limited	525 East Hastings St., Vancouver
Humble Manufacturing Co. Ltd.	1695 West 2nd Ave., Vancouver
McCarter Radio & Television Ltd.	1625 W. 3rd Ave., Vancouver
Research Industries Ltd.	1777 W. 3rd Ave., Vancouver
Sims Laboratories	Sidney
Spilsbury & Tindall Ltd.	44 Water St., Vancouver
West Coast Radio Telephone Mfg. Co.	1366 W. Pender St., Vancouver

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1956 - Continued

Name of firm	Location of plant
(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
Lalonde, Frank P., Ltd.	Dorval
Progress Restaurant & Equipment Mfg. Ltd.	4865 St. Lawrence Blvd., Montreal
Redi-Heat Electric Co.	256 Greene Ave., Montreal
Roy, E., Industries, Ltd.	L'Assomption
Wright, P. M., Electrical Co.	1327 Dorchester St. W., Montreal
Ontario:	
Air-Coils Mfg. Co. Ltd.	29 Brock St. N., Oakville
Alpaca Electric Appliances Ltd.	369 Danforth Rd., Toronto
Brewes Electric	127 Raleigh Ave., Toronto
Brock Snyder Mfg. Co., The	21 John St., Grimsby
Canadian Chromalox Co. Ltd.	251 Queen St. E., Toronto
Canadian Curtis Refrigeration Co. Ltd.	20 St. George St., Hamilton
Canadian General Electric Co. Ltd.	30 Bradford St., Barrie
Canadian General Electric Co. Ltd.	224 Wallace Ave., Toronto
Canadian Westinghouse Co. Ltd.	Longwood Road, Hamilton
Canadian Wilber B. Driver	85 King St. E., Toronto
Carrier Engineering Ltd.	70 Queen Elizabeth Blvd., Toronto
Chandler Electric Co.	3160 Dundas St. W., Toronto
Clyde Fans Limited	241 King St. East, Toronto
Continental Electric Co. Ltd.	310 Spadina Ave., Toronto
Cory Corporation Canada Ltd.	3300 Dufferin St., Toronto
Domestic Electric Co.	272 Church St., Toronto
Electric Magnetic Blanket Co.	52 King St. W., Cobourg
Endress, George W., Co. Ltd.	Third St., Ajax
Ever-Bright Ltd.	1415 Weston Rd., Toronto
Filter Queen	252 Victoria St., Toronto
Filtro Electric Limited	5 Parnell Ave., Toronto
Force Electric Products Limited	163 Church St., Acton
Frigidaire Products of Canada Ltd.	1901 Eglington Ave. E., Scarborough
Gilson Manufacturing Co. Ltd.	York Road, Guelph
Glassheat of Canada Ltd.	1603 The Queensway, Toronto
Graham Metal Products Ltd.	Bishop St., Preston
Groh's Cooler Limited	Concession Rd., Preston
Hanksraft, (Canada) Ltd.	Third St., Ajax
High Test Electrical Mfg. Ltd.	127 Lennox St., Toronto
Hoover Company Ltd., The	Gage and Barton Sts., Hamilton
Hygrade Electric Mfg. Co.	841-843 College St., Toronto
Keep Rite Refrigeration Ltd.	44 Elgin St., Brantford
Kelvinator of Canada Ltd.	1152 Dundas St. E., London
Keystone Electric Limited	111 Adelaide St. W., Toronto
Knight Rebound Controllers Ltd.	361 Jackson St. W., Hamilton
McGraw Electric Co. (Canada) Ltd.	75 Chisholm St., Oakville
MacLeod, J. K., & Co. Ltd.	2 River St., Toronto
McCormack-Smyth Ltd.	242 Mineola Road, Port Credit
Purity Water Heater Co.	2 Duke St., Toronto
Pyrexon Ray Co. Ltd.	17 Advance Rd., Toronto
Reed-Cameron	516 Richmond St. W., Toronto
Renfrew Electric & Refrigerator Co. Ltd.	Renfrew
Rotor Electric Company Ltd.	195 Rexdale Blvd., Toronto
Samson Dominion Ltd.	24-30 Curity Ave., Toronto
Schultz Mfg. Co. Ltd.	154-158 York St., Hamilton
Sea Breeze Mfg. Ltd. and Audio Tool & Eng. Ltd.	32 River St., Toronto
Sheraton Mfg. Co. Ltd.	604 King St., Toronto
Sloan Engineering Ltd.	1492 Don Mills Rd., Toronto
Standard Appliance Mfg. Co. Ltd.	897 Queen St. W., Toronto
Sunbeam Corporation (Canada) Ltd.	321 Weston Road, Toronto
Superior Electrics Limited	Pembroke St. E., Pembroke
Switson Industries Ltd.	201 Major St., Welland
Thermax Limited	Orillia
Triad Appliances	1 Torbarrie Rd., Weston
Universal Cooler Co. Ltd.	145 Brant St., Brantford
Wood, W. C., Ltd., The	123 Woolwich St., Guelph

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1956 — Continued

Name of firm	Location of plant
(d) Refrigerators, Vacuum Cleaners and Appliances — Concluded	
Manitoba:	
Coldstream Refrigerator Mfg. Ltd.	1855 Sargent Ave., Winnipeg
Element Specialty Mfg. Co.	223 Morley Ave., Winnipeg
Master Products Co.	548 Selkirk Ave., Winnipeg
Red Devil Heating & Mfg. Co.	272 Selkirk Ave., Winnipeg
Supreme Electric Appliances Ltd.	1098 Winnipeg Ave., Winnipeg
British Columbia:	
Allied Engineering of B. C. Ltd.	Granville Island, Zone 1
Elco Manufacturing Co. Ltd.	75 W. 3rd Ave., Vancouver
Leeders Pacific Ltd.	New Westminster
(e) Miscellaneous Electrical Products	
Quebec:	
American Metal Spinning Reg.	3176 Rachel St. E., Montreal
Canadian Cameo Chime Co. Ltd.	10332 Lille St., Montreal
Canadian General Electric Co. Ltd.	St. Malo
Canadian Westinghouse Co. Ltd.	Granby
Canadian Westinghouse Co. Ltd.	Trois Rivières
Columbia Electric Limited	261 Queen St., Montreal
Conduits National Company Llmitied....	10150 Notre Dame St. E., Montreal
Crystal Craft Co.	704 Notre Dame St. W., Montreal
Dominion Electric Protection Co.	2040 Clark St., Montreal
Economy Fuse & Mfg. Co. of Canada Ltd.	1030 St. Alexander St., Montreal
Electric Sales & Service and Dave's Repair Shop	710 St. James St., Montreal
Electrolier Manufacturing Co. Ltd.	5849 Boyer St., Montreal
Flex-I-Con Mfg. Company Ltd.	6155 Lafontaine St., Montreal
Hale Brothers Limited	6222 Chambord St., Montreal
Haliburton & White Limited	686 Notre Dame St. W., Montreal
Hi-Scale Products (Canada) Ltd.	7893 St. Lawrence Blvd., Montreal
Iberville Fittings Limited	100 Longtin St., St. Johns
Keith Lighting Co.	748 Lusignan St., Montreal
Kitai-Electric	6911 Park Ave., Montreal
L'Air-Liquide Society	5030 Rouen St., Montreal
Metal Spinning Works	1610 De Bullion St., Montreal
Mid-Day Fluorescent Fixtures Inc.	931 Amherst St., Montreal
Modulite Inc.	1190 Duchorme Ave., Outremont, Montreal
Northern Electric Co. Ltd.	1261 Shearer St., Montreal
Peerless Electric Limited	5585 Fullum St., Montreal
Progress Luminaire Ltd.	5525 Pare, Town of Mount Royal
Rest-Glow Mfg. Co. Ltd.	5600 Pare St., Montreal
Rosemount Industries Co. Ltd.	2090 Moreau St., Montreal
Roy Metal Works Ltd.	8870 Verville St., Montreal
Schonbek, A., & Co., Ltd.	950 Montee de Liesse, Montreal
Snoc Lighting Reg'd	2950 Rue Lafontaine St., St. Hyacinthe
Solex Company Ltd., The, Dept. of C. G. E. Co.	280 Faillon St. W., Montreal
Spinning Craft Reg'd	434 St. Pierre St., Montreal
Standard Electric Time Co. of Canada Ltd., The	726 St. Felix St., Montreal
Sylvania Electric (Canada) Ltd.	1 Sylvan Rd., Drummondville
Temco Electric Mfg. Co.	8045 Durocher Ave., Montreal
Tinsley, H., & Co. Ltd.	234 ave Ste-Paule, St-Jerome
Universal Electric Products Co. Ltd.	2155 Moreau St., Montreal
Ontario:	
Activated Advertising Devices Limited	73 King St., Hamilton
Allied Fluorescent & Incandescent Ltd.	15 Towns Rd., Toronto
Amphenol Canada Ltd.	300 Campbell Ave., Toronto
Ardron-Mackie Ltd.	9 Niagara St., Toronto
Arrow Fluorescent Co. Ltd.	24 Ryerson Ave., Toronto
Arrow-Hart & Hegeman (Canada) Ltd.	Industry Street, Toronto
Automatic Alarms, Signals Ltd.	87A Awde St., Toronto
Automatic Electric (Canada) Ltd.	100 Strowger Blvd., Brockville
Automatic Watchdog Controls Ltd.	4251 Dundas St. W., Toronto
Bach-Simpson Limited.....	1255 Brydges St., London
Bayly Engineering Ltd.	5-1st Street, Ajax

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1956 — Continued

Name of firm	Location of plant
(e) Miscellaneous Electrical Products — Continued	
Ontario — continued:	
Beck Electric Mfg. Co. Ltd.	10 Alcorn Ave., Toronto
Bowman Electric Herder	Petersburg
Branston, Chas. A., Limited	2508 Yonge St., Toronto
Burger Lighting Products Ltd.	27 Sackville Place, Toronto
Burndy Canada Ltd.	381 Greenwood Ave., Toronto
C. & M. Products Ltd.	124 Crockford Blvd., Toronto
Camesco Lighting Ltd.	280 Lansdowne Ave., Toronto
Canadian Electric Resistors Ltd.	Curity Ave., Toronto
Canadian Fluorescent Light Co.	308-310 Adelaide St. W., Toronto
Canadian General Electric Co. Ltd.	Dufferin St., Toronto
Canadian General Electric Co. Ltd.	Queen Elizabeth Highway, Oakville
Canadian General Electric Co. Ltd.	940 Lansdowne Ave., Toronto
Canadian Line Materials Ltd.	St. Clair Ave., Scarborough Junction
Canadian Strobe & Electric Corp.	222 Front St. E., Toronto
Chadwick-Carrol Brass & Fixtures Limited	365 Wilson St., Hamilton
Colonial Lighting Co., The	45 Knoll St., Port Colborne
Conduits National Company Ltd.	33 Labatt Ave., Toronto
Cords (Canada) Ltd.	149 Sterling Rd., 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
Daly-Arrow Ltd.	140 Kendal Ave., Toronto
de Sherbinin, I. F.	428 Rideau Street, Ottawa
Dominion Carbon Brush Co. Ltd.	250 Richmond St. W., Toronto
Dominion Electric Mfg. Company Ltd.	60 Leslie St., Toronto
Dominion Machine & Tool Co. Ltd.	18 Hook Ave., Toronto
Edwards of Canada Ltd.	625 — 6th St. E., Owen Sound
Elektrikords & Harness Ltd.	First St., Ajax
Etilin, H. B., Co. Ltd.	1850 Wilson Ave., Toronto
Fixturlite Mfg. Co.	1457 Dundas St., Toronto
Frost, L. H.	445 Dundas St. W., Oakville
Garcy Company of Canada Ltd.	1244 Dufferin St., Toronto
Globe Electric Manufacturing	3011 Dundas St. W., Toronto
Hart Manufacturing (Canada) Ltd.	155 Edwards St., Aurora
Henderson Electric Co. Ltd.	11 Jutland Rd., Toronto
Hoskins Alloys of Canada Ltd.	45 Racine Rd., Rexdale
Jensen Electrical Mfg. Co. Ltd.	216 Norseman St., Toronto
Kamro Lighting Products	R. R. No. 1, Weston
Kearney, James R., Corp. of Canada Ltd.	3 Crawford St., Guelph
Kelk, George Limited	130 Willowdale Ave., Willowdale
Kondu Mfg. Co. Ltd.	South Street, Preston
Line & Cable Accessories Ltd.	270 Evans Ave., Toronto
Magnetic Coil Co.	67 Ontario St. S., Kitchener
Markel Electric Products Ltd.	23 Lewis St., Fort Erie
Marr Electric Ltd.	160 Perth Ave., Toronto
Mitchell Mfg. Co. Ltd.	19 Waterman Ave., Toronto
Monitoi Industries (Windsor) Ltd.	1527 Crawford St., Windsor
Morganite Carbon Products Canada, Ltd.	195 Eastern Ave., Toronto
Neosid (Canada) Ltd.	Vansco Rd., Toronto
Nichols, R. H., Ltd.	2781 Dufferin St., Toronto
Noma Lites Canada Ltd.	1340 — 2nd Ave., Owen Sound
Osborne Electric Co. Ltd.	95 Wesley St., Etobicoke
Pasteway of Canada Ltd.	426 Cannon St. E., Hamilton
Pierce Fuse Corporation Ltd.	35 Carson St., Toronto
Pittsburgh Reflector of Canada Ltd.	105 Tycos Dr., Toronto
Powertronic Equipment Limited	50 Bermondsey Rd., Toronto
Regent Equipment Mfg. Co. Ltd.	455 King St. W., Toronto
Residential Lighting Studio Co.	1514 Dundas St. W., Toronto
S. & C. Electric Canada Ltd.	8 Vansco Rd., Toronto
Service Lamp Co. Ltd.	197 King St., London
Slater, N., Co. Ltd.	2 Sydney St., Hamilton
Smith, Lawrence F., & Sons	530 Richmond St. W. (rear), Toronto
Smith & Stone Limited	Georgetown
Stark Electronics Instruments Ltd.	Ajax
Steber-Woodhouse Ltd.	33 Ingram Dr., Toronto
Sterne Equipment Co. Ltd.	152 Lappin Ave., Toronto
Swift Devices Limited	14 George St., Hamilton
Taylor Electric Mfg. Co. Ltd.	625 Princess Ave., London
Toronto Metal Spinning Ltd.	32 Eastern Ave., Toronto
Triangle Conduit & Cable (Canada) Ltd.	Scarborough
Virden, John C., Limited	19 Curity Ave., Toronto
Vulcon Electric Products Ltd.	3160 Dundas St. W., Toronto

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1956 — Concluded

Name of firm	Location of plant
(e) Miscellaneous Electrical Products — Concluded	
Ontario — concluded:	
Wakefield Lighting Ltd.	395 Wellington Rd. S., London
Wakfer Electronics Co. Ltd.	35 Cameron St., Dundas
Waldman, Harvey, & Co.	45 Crockford Blvd., Scarborough
Walker Metal Products Ltd.	1500 Kildare Road, Walkerville
White-Rodgers Ltd.	611 Gerrard St. E., Toronto
Wilson, J. A., Lighting & Display Ltd.	280 Lakeshore Rd., Toronto 14
Wynston, A. L., Jr., Ltd.	251 Spadina Ave., Toronto
Manitoba:	
Advance Lighting Co.	106 Midland St., Winnipeg
Caswell, W. A.	190 Chestnut St., Winnipeg
Globe Electric Mfg. Co. Ltd.	573 Main St., Winnipeg
Ideal Electric Mfg. Co. Ltd.	372 Selkirk Ave., Winnipeg
Lighting Materials Ltd.	803 Erin St., Winnipeg
L. & S. Electric Mfg. Ltd.	466-70 Ross Ave., Winnipeg
Super-Lite Electric Mfg. Co. Ltd.	1465 Notre Dame Ave., Winnipeg
Alberta:	
Technical Enterprises	6328 — 104th St., Edmonton
British Columbia:	
Canadian Lighting Products Co.	319 W. Pender St., Vancouver
Duck, John, & Son, Limited	1246 Hornby St., Vancouver
Freeman, W., & Son	275 Woodland Drive, Vancouver
Lenkurt Electric Co. of Canada Ltd.	6960 Lougheed Hwy., N. Burnaby
Marine Electric Limited....	137 W. 2nd St., North Vancouver
Rainbow Lighting Co. Ltd.	3715 Commercial Drive, Vancouver
Van couver Lighting Co. Ltd.	924 Hastings St., Vancouver
West Coast Electric Ltd.	1980 Cypress St., Vancouver
Western Lighting Fixture Co. Ltd.	246 W. 2nd Ave., Vancouver
(f) Wires and Cables	
Quebec:	
Aluminum Co. of Canada, Ltd.	Shawinigan Falls
Northern Electric Co. Ltd.	150 Metropolitan Blvd., Lachine
Phillips Electrical Co. (1953) Ltd.	5795 De Gaspé St., Montreal
Pirelli Cables Conduits Ltd.	77 Richelieu St., St. Johns
Universal Wire & Cable Co. Ltd., The	2155 Moreau St., Montreal
Ontario:	
Boston Insulated Wire and Cable Co. Ltd.	118 Shaw St., Hamilton
Canada Wire & Cable Co. Ltd.	Laird Dr., Leaside
Canadian General Electric Co., Ltd.	107 Park St., Peterborough
Federal Wire & Cable Co. Ltd.	265 Suffolk St., Guelph
Industrial Wire & Cable Ltd.	35 Golden Ave., Toronto
Phillips Electrical Co. (1953) Ltd.	King St. W., Brockville
Pyrotexan of Canada Ltd.	Trenton
Standard Wire & Cable Ltd.	70 Wingold Ave., Toronto
Triangle Conduit & Cables (Canada) Ltd.	4006 Dundas St. W., Toronto
British Columbia:	
Canada Wire and Cable Co. Ltd.	1494 Powell St., Vancouver
Richmond Electric Co. Ltd.	2030 Albert St., Vancouver

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