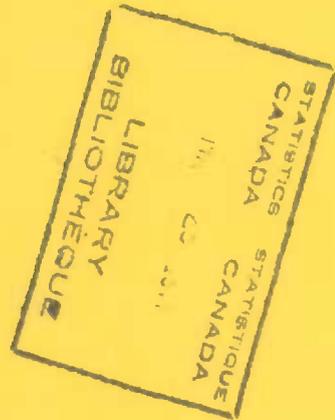


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THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY

1957

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THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY

1957

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
- II – The Manufacturing Industries of Canada, (7 sections, as follows):
 - Section A. Summary for Canada
 - Section B. Atlantic Provinces
 - Section C. Quebec
 - Section D. Ontario
 - Section E. Prairie Provinces
 - Section F. British Columbia
 - Section G. The Manufacturing Industries of Canada, Regional Distribution
- 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

Prices of most reports released after January 1, 1959 have been increased. Information on the new prices of particular issues is available on request from the Information Services Division of the Dominion Bureau of Statistics.

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THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY

1957

Factory shipments reported by firms in the Electrical Apparatus and Supplies Industry in 1957 were valued at \$1,078,212,912 a decrease of 1.1 per cent from the \$1,090,194,175 reported in 1956. The 486 firms which reported in this group in 1957 were distributed across Canada as follows: 1 in Newfoundland; 1 in Nova Scotia; 99 in Quebec; 312 in Ontario; 20 in Manitoba; 3 in Saskatchewan; 8 in Alberta and 42 in British Columbia. These plants gave employment to a total of 81,272 workers who were paid \$320,416,647 in salaries and wages. Expenditures for materials amounted to \$498,242,643 and an additional \$9,525,064 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 materials 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 \$147,000,000 in 1957.

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. In 1957 the adjustment involved subtracting \$653,000 from the goods in process figures.

TABLE 1. Principal Statistics of the Electrical Apparatus and Supplies Industry, Significant Years 1929-57, and by Provinces, 1956 and 1957

Year and province	Estab-lish-ments	Em-ployees	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
	number		dollars				
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
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	468	76,244	264,031,474	7,876,225	477,655,753	469,918,651	962,615,012
1956							
Newfoundland	1	24,560	89,668,222	2,358,365	146,092,214	151,311,339	286,127,658
Nova Scotia	1						
Quebec	98	56,656	213,771,658	6,513,603	393,210,322	411,767,061	770,502,085
Ontario	310						
Manitoba	20	1,050	3,230,676	104,403	5,916,614	6,634,950	12,545,808
Saskatchewan	1						
Alberta	7	206	678,045	59,849	3,391,313	1,533,250	4,803,244
British Columbia	35						
Canada	473	83,296	310,522,800	9,164,267	558,249,520	577,411,595	1,090,194,175
1957							
Newfoundland	1	24,374	95,018,910	2,553,507	130,853,285	145,347,469	277,284,677
Nova Scotia	1						
Quebec	99	54,462	216,733,886	6,584,722	343,522,935	405,419,816	759,921,341
Ontario	312						
Manitoba	20	1,149	3,727,272	147,184	7,260,761	7,892,399	14,921,194
Saskatchewan	3						
Alberta	8	244	853,631	84,538	4,949,083	1,722,782	6,679,886
British Columbia	42						
Canada	486	81,272	320,416,647	9,525,064	498,242,643	569,240,265	1,078,212,912

¹ See footnote to text.**TABLE 2. Principal Statistics, by Sub-groups,¹ 1956 and 1957**

Group	Estab-lish-ments	Em-ployees	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
	number		dollars				
1956							
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
Telecommunication equipment 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

See footnotes at end of table

TABLE 2 Principal Statistics, by Sub-groups,¹ 1956 and 1957 - Concluded

Group	Estab-lish-ments	Em-ployees	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 ³
1957	number		dollars				
Batteries	34	2, 296	8, 948, 462	565, 613	24, 573, 500	18, 030, 192	41, 678, 716
Heavy electrical machinery	78	24, 234	103, 078, 674	2, 500, 366	114, 474, 507	182, 442, 834	301, 241, 082
Telecommunication equipment ³	127	18, 503	68, 088, 842	1, 268, 756	105, 999, 742	111, 127, 430	217, 726, 717
Refrigerators and appliances	75	8, 789	33, 373, 881	1, 678, 466	69, 421, 712	66, 172, 088	136, 487, 474
Miscellaneous electrical products:							
Wires and cables ⁴	23	7, 304	31, 414, 168	1, 526, 027	94, 531, 959	60, 269, 381	160, 300, 652
Other miscellaneous electrical products	149	20, 146	75, 512, 620	1, 985, 836	89, 241, 223	130, 545, 340	220, 778, 271
Total	486	81, 272	320, 416, 647	9, 525, 064	498, 242, 643	568, 587, 265	1, 078, 212, 912

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 tele-communications equipment (except telephone equipment). At the present time manufacturers of telephone equipment are clas-sified 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. Inventories,¹ 1957

	Raw materials and supplies	Goods in process ²	Finished goods of own manufacture	Total
(a) By sub-groups	dollars			
Opening:				
Batteries	3, 198, 057	2, 723, 225	1, 922, 894	7, 844, 176
Heavy electrical machinery and equipment	23, 344, 696	19, 476, 671	18, 104, 707	60, 926, 074
Telecommunication equipment ³	16, 387, 477	14, 981, 964	23, 781, 875	55, 151, 316
Refrigerators, vacuum cleaners and appliances	14, 444, 982	7, 460, 039	17, 649, 454	39, 554, 475
Miscellaneous electrical products:				
Wires and cables	12, 787, 378	7, 912, 673	12, 150, 004	32, 850, 055
Other miscellaneous electrical products	17, 462, 612	25, 549, 600	21, 430, 163	64, 442, 375
Canada	87, 625, 202	78, 104, 172	95, 039, 097	260, 768, 471
Closing:				
Batteries	3, 395, 526	3, 178, 267	2, 958, 441	9, 532, 234
Heavy electrical machinery and equipment	26, 006, 151	15, 165, 565	19, 015, 438	60, 187, 154
Telecommunication equipment ³	13, 490, 085	17, 819, 180	24, 011, 870	55, 321, 135
Refrigerators, vacuum cleaners and appliances	12, 672, 118	6, 851, 611	19, 042, 674	38, 566, 403
Miscellaneous electrical products:				
Wires and cables	9, 630, 375	7, 054, 386	9, 035, 006	25, 719, 767
Other miscellaneous electrical products	16, 292, 530	25, 736, 660	22, 069, 231	64, 098, 421
Canada	81, 486, 785	75, 805, 669	96, 132, 660	253, 425, 114
(h) By provinces				
Opening:				
Newfoundland, Nova Scotia and Quebec	19, 028, 554	34, 760, 139	29, 027, 765	82, 816, 458
Ontario	64, 067, 975	41, 460, 094	64, 564, 399	170, 092, 468
Manitoba	1, 509, 766	767, 032	409, 588	2, 686, 386
Saskatchewan and Alberta	599, 088	395, 886	353, 356	1, 348, 330
British Columbia	2, 419, 819	721, 021	683, 989	3, 824, 829
Canada	87, 625, 202	78, 104, 172	95, 039, 097	260, 768, 471
Closing:				
Newfoundland, Nova Scotia and Quebec	18, 740, 949	33, 540, 757	31, 716, 731	83, 998, 437
Ontario	57, 738, 429	39, 711, 510	62, 572, 115	160, 022, 054
Manitoba	1, 639, 035	968, 353	587, 417	3, 194, 805
Saskatchewan and Alberta	625, 583	356, 052	469, 707	1, 451, 342
British Columbia	2, 742, 789	1, 228, 997	786, 690	4, 758, 476
Canada	81, 486, 785	75, 805, 669	96, 132, 660	253, 425, 114

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

(h) 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 1957 does not necessarily agree with the closing inventory for 1956 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, 1956 and 1957 - Concluded

Product	1956		1957	
	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)	648,422	21,060,946	638,109	22,615,006
Record players - With amplifier	176,532	5,682,494	272,421	7,837,642
Without amplifier	12,142	316,797	11,070	186,561
Radio transmission equipment for civilian use (x)	-	12,622,631	-	10,605,721
Radio communication equipment for military purposes (x) (except radar)	-	11,465,068	-	4,431,677
Radar equipment - commercial and defence	-	14,845,119	-	10,123,042
Radio condensers		See capacitors		
Navigational equipment, aeronautical and marine	-	879,746	-	673,695
Carrier current equipment	-	7,949,899	-	12,774,060
Studio television equipment, including cameras, etc.	-	984,468	-	1,604,176
Radio transmitters for broadcast and television	613,895	94,506,905	434,504	68,012,547
Television equipment - Complete sets (see Table 15)				
Industrial electronic control (relays, photo-electric timing, capacitance, etc. and electronic control panels for industrial applications) (x)	-	617,133	-	271,145
Spare parts (less tubes) for maintenance of electronic telecommunication equipment and other electronic equipment - commercial and defence	-	4,291,664	-	2,882,196
Contract maintenance of electronic telecommunication equipment - commercial and defence	-	3,626,490	-	6,503,785
All other radio and electronic equipment, except tubes and transformers	-	32,994,485	-	36,485,025
Signal systems:				
Traffic	-	367,597	-	483,347
Fire alarm	-	950,540	-	935,422
Interior signal and clock systems, excluding telephone	-	1,260,332	-	1,568,150
Vacuum tubes (see Table 16)	-	20,339,470	-	20,884,471
Wiring devices (x) (see Table 30)	-	16,835,953	-	16,180,071
Wires and cables (x) (see Table 21)	-	186,518,927	-	153,845,828
Miscellaneous:				
Fences, electric (x)	4,560	54,382	3,915	49,582
Rectifiers, except power type	-	1,118,730	-	996,461
Telephone materials, including exchange switchboards, telephones, transmitters, etc.	-	70,258,227	-	84,645,525
All other products, not separately specified	-	63,893,988	-	64,330,224
Amount received for repair work	-	4,953,127	-	8,158,869
Total all products	-	1,090,194,175	-	1,078,212,912

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.

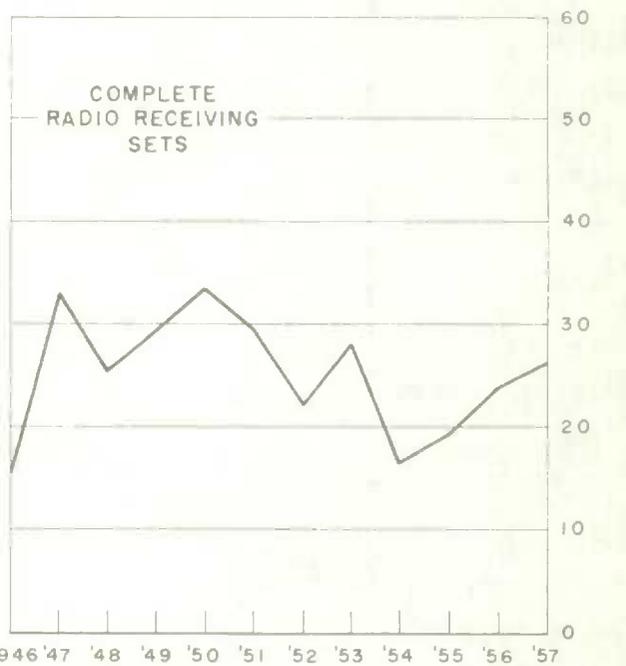
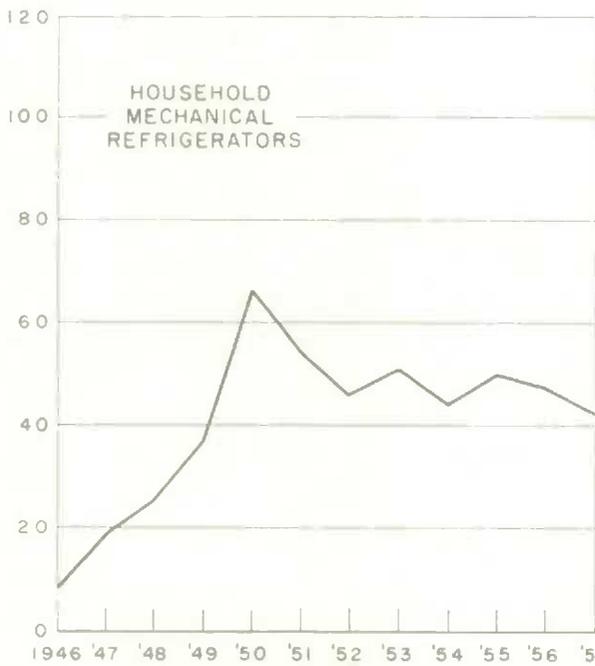
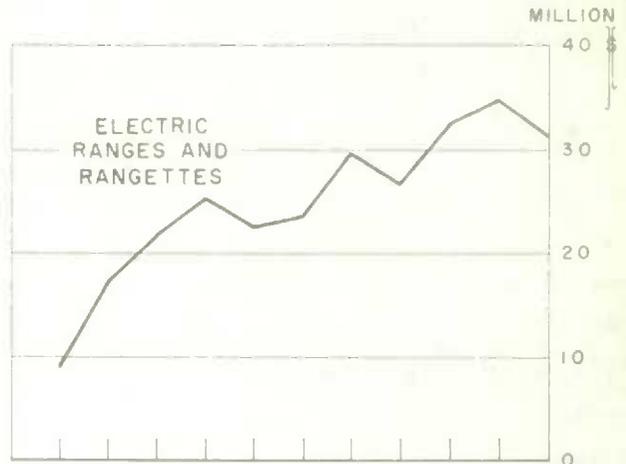
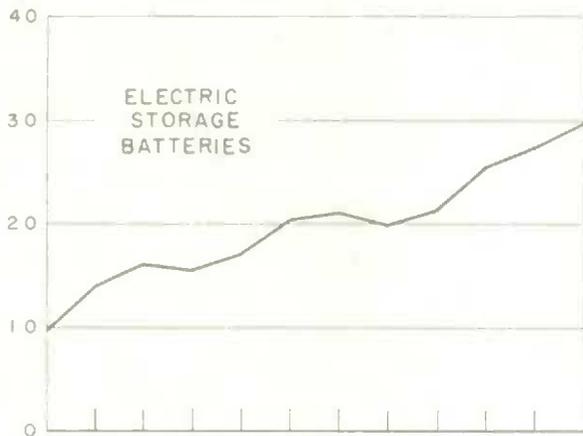
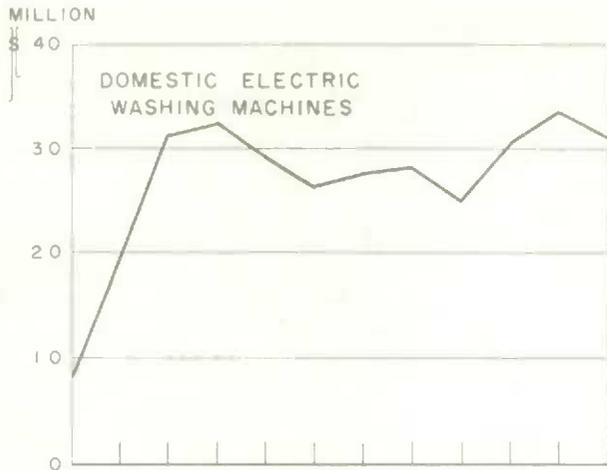
TABLE 5. Materials Used in the Electrical Apparatus and Supplies Industry, 1956 and 1957

Material	1956		1957	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Aluminum:				
Castings	lb. 4,887,109	3,149,780	4,654,996	3,091,508
Ingots	" 3,540,513	1,150,129	2,938,457	835,082
Rods and bars	" 43,570,725	12,342,179	51,125,674	14,933,711
Scrap	" 23,552	7,742	8,546	1,070
Sheets and strip	" 7,559,663	3,453,366	6,771,717	3,232,547
Other	—	3,138,762	—	3,074,633
Ammonium chloride (sal ammoniac)	lb. 1,607,255	91,672	1,596,773	77,230
Antimony	" 2,825	1,043	691	213
Argon	cu. ft. 771,703	91,768	1,343,758	130,013
Battery boxes and containers	—	4,643,597	—	5,382,239
Brass and bronze:				
Castings	lb. 2,852,404	1,970,694	2,822,844	1,818,969
Ingots	" 1,431,197	556,673	1,095,346	329,038
Rods and bars	" 4,419,377	2,231,360	3,359,266	1,582,368
Tubing and pipe	" 257,624	194,783	299,273	194,248
Sheets and strip	" 3,763,945	2,233,149	2,807,773	1,520,723
Scrap	" 129,132	38,213	102,431	25,060
Other	—	1,895,255	—	1,683,887
Carbon plates, blanks, etc.	—	421,975	—	450,442
Carbon brushes	—	356,456	—	149,890
Carbon electrodes	—	183,577	—	188,052
Chalk or whiting	lb. 1,093,357	20,930	1,037,225	23,286
China-clay (kaolin)	ton 1,495	66,933	1,515	67,577
Copper:				
Castings	lb. 753,808	563,134	908,813	609,192
Ingots, slabs, wire bars, etc.	" 2,847,774	1,384,284	3,238,476	1,401,145
Rods	" 160,708,482	70,090,780	139,925,379	44,314,560
Scrap	" 82,336	33,667	255,842	136,361
Sheets and strip	" 2,249,728	1,433,912	2,146,434	1,328,486
Tubing and pipe	" 2,251,076	1,644,408	2,183,332	1,374,084
Wire, bare	" 4,659,789	2,733,172	6,874,691	3,493,132
Wire, enamelled	" 9,309,714	7,571,816	10,501,824	7,065,221
Wire, other insulated	—	11,333,027	—	8,947,637
Other	—	1,192,964	—	1,940,593
Cotton and linen sheets, tapes, etc.	—	3,287,592	—	3,249,298
Glass bulbs, tubing and cane	—	4,784,892	—	5,159,460
Insulating varnishes and japans	—	1,219,659	—	1,423,908
Insulating waxes	—	596,311	—	702,158
Insulators, porcelain	—	3,188,337	—	3,497,682
Iron and steel (except alloy):				
Pig iron	net ton 4,994	277,971	3,382	203,919
Steel bars and rods	" 24,108	4,758,469	21,153	4,479,051
Steel sheets and strip	" 125,374	19,641,054	97,565	17,057,760
Steel wire	" 21,878	4,338,150	22,046	5,048,407
Structural steel	" 6,972	977,831	17,718	2,613,847
Scrap iron and steel	" 5,434	219,507	3,346	166,941
Other iron and steel	—	15,163,492	—	13,665,722
Alloy steel:				
Carbon and alloy tool steel, including high-speed	—	260,186	—	191,511
Stainless	—	1,543,555	—	1,453,100
Silicon sheets and strips	net ton 37,113	11,237,134	36,928	12,919,744
Other alloy steel	—	953,310	—	616,106

TABLE 5. Materials Used in the Electrical Apparatus and Supplies Industry,
1956 and 1957 - Concluded

Material	1956		1957		
	Quantity	Cost at works	Quantity	Cost at works	
		\$		\$	
Lead:					
Pig (pure).....	lb.	53,914,276	8,219,588	40,233,891	5,687,186
Antimonial.....	"	38,386,582	6,132,559	40,820,393	6,117,763
Other.....	-	-	619,107	-	584,912
Lead oxide (litharge and red lead).....	lb.	8,956,951	1,600,269	9,501,981	1,544,670
Lumber.....	M bd. ft.	13,115	1,635,103	13,740	1,642,830
Magnesium.....	lb.	29,406	28,497	48,105	35,626
Manganese dioxide.....	"	5,455,341	333,266	5,040,175	393,896
Mercury.....	"	16,842	64,610	10,344	35,991
Mica.....	"	515,960	763,347	642,808	927,235
Nickel-silver, all forms.....	-	-	534,821	-	480,616
Nitrogen.....	cu. ft.	6,436,902	56,709	9,975,119	119,994
Oil:					
Transformer.....	Imp. gal.	2,140,850	968,492	2,550,943	1,224,787
Switch.....	" "	40,851	20,320	82,694	38,427
Paints, stains, lacquers, etc.	-	-	2,710,096	-	2,871,756
Radio and television cabinets.....	-	-	14,979,202	-	11,532,322
Radio and television parts for assembling.....	-	-	49,757,351	-	35,820,773
Radio and television tubes purchased and used to equip radio and television receiving sets made by manufacturer in own plant.....	No.	13,698,313	22,307,185	9,671,716	14,491,187
Refrigerator cabinets.....	-	-	248,331	-	21,266
Rubber:					
Crude.....	lb.	814,173	319,558	683,557	222,719
Other.....	-	-	2,099,846	-	2,558,538
Resistance wire.....	-	-	856,721	-	731,932
Silk, artificial.....	lb.	540,301	514,728	528,417	575,777
Silver.....	troy oz.	160,462	154,754	169,808	171,778
Steel tanks.....	-	-	1,269,724	-	1,689,396
Sulphuric acid, 100%.....	lb.	14,726,738	260,755	16,815,536	310,139
Talc.....	"	510,810	12,466	208,821	3,321
Tin.....	"	140,379	142,183	175,537	186,925
Tungsten wire.....	-	-	546,606	-	824,583
Wood battery separators.....	-	-	395,117	-	841,598
Zinc:					
Ingots and bars.....	lb.	5,085,627	683,532	5,386,895	715,039
Sheets and strip.....	"	971,734	199,587	805,569	168,186
Other.....	-	-	734,267	-	693,776
Zinc chloride.....	lb.	823,468	58,627	648,176	48,259
Electric motors, purchased.....	-	-	3,049,600	-	3,129,084
All other materials.....	-	-	218,068,576	-	210,097,355
Containers and packing material.....	-	-	9,235,370	-	9,852,090
Total materials.....	-	-	558,249,520	-	498,242,643

PRODUCTION*
IN
CANADA
FROM
ALL INDUSTRIES
OF
SPECIFIED ELECTRICAL
PRODUCTS
1946 — 1957



* PRODUCTION = SELLING VALUE AT WORKS

TABLE 6. Factory Shipments¹ of Electric Generators and Parts, 1956 and 1957

	Number	Total rating	Selling value at works
1956			
\$			
A.C.:			
187 kva. and under, any speed	332	14,161	689,790
188 kva. to 1000 kva., any speed	43	14,736	249,464
A.C., 1001 kva. and above, all speeds	50	1,073,861	9,837,507
D.C. and including exciters:			
Under 3/4 kw.	180	120	4,200
1 kw. to 1000 kw.	124	19,146	1,148,628
1001 kw. and over			
Accessories and parts for generators	-	-	434,685
Total	-	-	12,364,274
1957 ²			
A.C. Generators (except for vehicle and marine use):			
A.C. 200 kva. and under, generators, any speed	9	198	14,843
A.C. 201 kva. to 1000 kva. generators, any speed	20	9,862	163,155
A.C. 1001 kva. and above generators, any speed	47	1,439,862	16,876,636
Accessories and parts for A.C. generators	-	-	935,488
Total	-	-	17,991,620

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

² See also table 7 (b).

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

	Number	Total rating	Selling value at works
1956			
\$			
Single phase induction:			
1/3 h.p. & under ¹	1,173,545	-	15,915,937
1/2 h.p. & 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:			
1/3 h.p. & under ¹	4,550	1,252	111,631
1/2 h.p. & 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.			
1/3 h.p. & under ¹	501,429	14,694	1,538,692
1/2 h.p. & 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.	361,016	xxx	1,613,972
Shaded pole type motors, all ratings			
Universal type motors, all ratings			
Synchronous motors & condensers:			
200 h.p. or kva. and under	61	9,644	401,839
201 h.p. to 1,000 h.p. or kva.	128	68,800	1,244,802
1,001 h.p. or kva. 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 7 (b). Factory Shipments of Electric Motors¹ and Parts, 1957
(From all industries)

	Number	Total rating h.p.	Selling value at works \$
A.C. Motors (except for railway and vehicle use):			
Single phase induction —			
1/3 h.p. and under (except shaded pole or universal motors).....	976,516	—	13,618,705
1/2 h.p. and 3/4 h.p.	77,026	—	2,516,546
1 h.p. to 5 h.p. inclusive-open type	14,100	23,610	1,632,845
1 h.p. to 5 h.p. inclusive-enclosed type	951	1,617	128,893
Polyphase induction —			
1/3 h.p. and under	3,703	1,007	111,815
1/2 h.p. and 3/4 h.p.	12,058	7,281	523,769
1 h.p. to 5 h.p. inclusive-open type	22,678	55,592	2,030,361
1 h.p. to 5 h.p. inclusive-enclosed type	9,870	26,252	1,118,524
6 h.p. to 25 h.p. inclusive-open type	6,154	73,904	1,707,872
6 h.p. to 25 h.p. inclusive-enclosed type	5,918	78,718	1,858,105
26 h.p. to 100 h.p. inclusive-open type	2,398	118,658	2,228,969
26 h.p. to 100 h.p. inclusive-enclosed type	1,324	67,226	1,470,389
101 h.p. to 200 h.p. inclusive-open type	515	66,817	1,417,057
101 h.p. to 200 h.p. inclusive-enclosed type	271	37,361	1,384,415
201 h.p. to 1000 h.p. inclusive	457	200,354	1,423,723
1001 h.p. and over			
Synchronous motors and condensers:			
Up to and including 200 h.p. or kva.	38	4,798	179,511
201 h.p. or kva. to 1000 h.p. or kva.	124	64,315	1,051,176
1001 h.p. or kva. and over	39	115,550	1,786,745
Accessories and parts for A.C. motors	—	—	795,871
Railway and vehicle motors, A.C. and D.C.	2	—	2
Shaded pole type motors, all ratings	306,993	—	1,371,269
Universal type motors, all ratings	—	—	2
D.C. Motors and Generators, Including Exciters, (except for Railway and Vehicle Use):			
D.C. Motors — 1/3 kw. and under	415,294	89,384	1,255,716
1/2 kw. and 3/4 kw.	525	366	79,027
D.C. Motors or Generators:			
1 h.p. or kw. to 5 h.p. or kw.	450	1,117	114,358
6 h.p. or kw. to 25 h.p. or kw.	181	2,950	205,954
26 h.p. or kw. to 100 h.p. or kw.	252	16,726	1,091,919
101 h.p. or kw. to 200 h.p. or kw.	184	19,825	1,187,926
201 h.p. or kw. to 1000 h.p. or kw.	218	78,340	3,659,744
1001 h.p. or kw. and over	—	—	2
All other motors or generators	—	—	7,880,736 ²
Accessories and parts for D.C. motors and generators	—	—	2,310,449
Total	—	—	59,542,389

¹ Electric motors and/or Generators as indicated.

² Included with "All other motors or generators".

³ Includes rotors and stators.

TABLE 8. Factory Shipments of Transformers, by Types, 1956 and 1957

Type	1956		
	Number	Total rating	Selling value at works
		kva.	\$
Distribution transformers Dry type up to and including 200 kva. 1 phase or up to and including 225 kva. 3 phase - 15,000 volts and below, except dry type transformers 2 kva. and below	79,991	1,477,055	20,102,540
Distribution Transformers - liquid filled type, up to and including 200 kva., 1 phase, or up to and including 225 kva. 3 phase; 15 kv. and below	Included in above item in 1956		
Power transformers 7,500 kva. and less, up to and including 138 kv. class	1,518	2,122,135	13,345,328
Power transformers above 7,500 kva. at all voltages, also all kva. ratings in voltages above 138 kv. 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 kva. 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
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 kva.	1	-	1
All other transformers	-	-	2,914,883
Parts and supplies for transformers	-	-	2,545,632
Total	-	-	69,090,500
Type	1957		
	Number	Total rating	Selling value at works
		kva.	\$
Distribution transformers Dry type up to and including 200 kva. 1 phase or up to and including 225 kva. 3 phase - 15,000 volts and below, except dry type transformers 2 kva. and below	14,586	296,294	4,273,208
Distribution Transformers - liquid filled type, up to and including 200 kva., 1 phase, or up to and including 225 kva. 3 phase; 15 kv. and below	54,505	1,083,443	14,836,233
Power transformers 7,500 kva. and less, up to and including 138 kv. class	2,014	2,380,276	15,742,616
Power transformers above 7,500 kva. at all voltages, also all kva. ratings in voltages above 138 kv. class	269	7,776,165	22,648,812
Feeder regulators - single phase step voltage regulators	286	97,392	2,134,418
- three phase step voltage regulators with 750 kva. of regulation or less			
- induction voltage regulators			
Current transformers - up to and including 15,000 volts	29,996	-	2,144,648
- above 15,000 volts			

TABLE 8. Factory Shipments of Transformers, by Types, 1956 and 1957 - Concluded

Type	1957		
	Number	Total rating kva.	Selling value at works \$
Potential transformers - up to and including 15,000 volts	6,763	-	1,012,236
- above 15,000 volts			
Metering outfits (combination of current and potential transformers in one enclosure) - up to and including 15,000 volts	682	-	690,511
- above 15,000 volts			
Constant current transformers (street lighting)	1	-	1
Series lamp transformers	1	-	1
Luminous tube transformers	46,189	-	646,197
Ignition transformers (oil and gas)	119,699	-	1,052,087
Radio and TV transformers - Air core	1,188,437	-	182,028
- Powdered iron and therite core	2,874,262	-	1,380,974
- Laminated core	1,899,587	-	2,058,939
Transformers for electronic equipment (other than radio and TV)	148,513	-	1,010,378
Variable radio transformers	1	-	1
Fluorescent transformers and ballasts	1,150,746	-	4,406,288
Mercury lamp transformers	1	-	1
Bell ringing and chime transformers	1	-	1
Control and signalling transformers	38,031	-	400,186
General purpose dry type transformers, up to and including 2 kva. ..	1	-	1
All other transformers	-	-	3,243,981
Parts and supplies for transformers	-	-	2,100,326
Total	-	-	79,964,066

¹ Included in "All other transformers".

TABLE 9. Factory Shipments of Conduit for Electrical Wiring, 1956 and 1957

Item	1956		1957	
	Quantity	Selling value at works \$	Quantity	Selling value at works \$
Rigid conduit:				
Steel and non-ferrous	55,740,347 ¹	9,292,150 ¹	49,551,279	8,573,370
Electrical metallic tubing, steel and non-ferrous	8,617,744	1,902,910	7,930,098	1,765,247
Flexible conduit (steel and non-metallic)	2,000,000	175,000	1,724,000	162,000
Total	-	11,522,330	-	10,500,617

¹ Revised

TABLE 10. Factory Shipments of Electrical Switch Gear and Protective Equipment
(Except telephone switchboards), 1956 and 1957

Item	Selling value at works
	\$
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 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	2,115,544
Power circuit breakers (sold apart from assemblies and not including sectionalizers or reclosers) — indoor	2,536,325
— outdoor	1,239,488
Low voltage air circuit breakers (sold apart from assemblies but not including moulded case breakers)	4,792,027
Disconnecting switches — indoor type	1,879,473
— outdoor type	518,411
Lightning arresters — 15 kv. and under	4,422,750
— over 15 kv.	705,904
Power capacitors — units (sold apart from assemblies)	942,121
— assemblies (including units)	included with "other"
Low voltage switchboards (fused or circuit breaker types)	included with "other"
Distribution, lighting and residential panelboards (with fuses or moulded case circuit breakers)	2,234,348
Industrial and residential enclosed safety switches and circuit breakers	5,530,707
Miscellaneous cabinets, wireways, gutters, surface raceways (excluding conduit and metallic tubing) and bus ducts including feeder, plug and trolley types	5,955,950
Oil circuit reclosers and sectionalizers, up to and including 15,000 volts and repair parts	2,922,163
Potheads	68,718
Other switchgear and protective equipment	included with "other"
Total	55,861,636
1957	
Switchgear assemblies — metalclad switchgear, 5 kv. and 15 kv. with drawout oil circuit breakers	5,832,730
metalclad switchgear, 5 kv. and 15 kv. with drawout oilless circuit breakers (includes air and airblast breakers)	6,175,417
600 volt metal-enclosed switchgear (drawout or fixed breakers, but not including moulded case breakers)	3,594,769
control desks, duplex and open switchboards and supervisory control 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	3,526,727
Power circuit breakers (sold apart from assemblies and not including sectionalizers or reclosers) — indoor oil or oilless circuit breakers	4,463,659
— outdoor oil circuit breakers	1,384,779
— outdoor oilless circuit breakers	6,466,369
Low voltage air circuit breakers (sold apart from assemblies but not including moulded case breakers)	1,252,242
Disconnecting switches — indoor type	1,471,223
— outdoor type	705,991
Lightning arresters — 15 kv. and under	5,136,904
— over 15 kv.	927,780
Power capacitors — units (sold apart from assemblies)	396,574
— assemblies (including units)	included with "other"
Low voltage switchboards (fused or circuit breaker types)	included with "other"
Distribution, lighting and residential panelboards (with fuses or moulded case circuit breakers)	2,502,505
Industrial and residential enclosed safety switches and circuit breakers	5,593,049
Miscellaneous cabinets, wireways, gutters, surface raceways (excluding conduit and metallic tubing) and bus ducts including feeder, plug and trolley types	5,220,405
Oil circuit reclosers and sectionalizers, up to and including 15,000 volts and repair parts	2,872,419
Potheads	included with "other"
Other switchgear and protective equipment	included with "other"
Total	67,998,237

TABLE 11 Production¹ of Electric Vacuum Cleaners and Parts, 1949 - 1957 (From All Industries)

Year	Floor models		Cylinder models		Hand models		Attachments and parts		Total	
	Number	Value	Number	Value	Number	Value	Number	Value	Number	Value
		\$		\$		\$		\$		\$
1949	34,308	1,985,022	106,952	5,021,712			—	1,105,210 ²	—	8,111,944
1950	43,075	2,337,136	109,395	5,161,920	Not available for publication		—	1,271,363 ²	—	8,770,419
1951	39,170	2,121,966	90,837	5,587,627	5,145	93,420	—	1,114,719	—	8,917,732
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
1957	22,516	1,681,140	126,252	7,052,463	—	—	—	372,343 ²	—	9,105,946

¹ Factory shipments since 1952.² Includes hand models.

TABLE 12. Factory Shipments of Dry Cell Batteries, 1956 and 1957

Type	Quantity	Selling value at works
		\$
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
1957		
Dry cell:		
6-inch batteries	No. of cells 1,749,956	1,054,455
Radio batteries for portable sets	" " 18,720,528	867,839
Radio batteries for non-portable sets	" " 19,431,552	1,686,039
Flashlight batteries	" " 33,865,528	3,613,943
Hearing-aid batteries:		
"A" batteries	}	— 791,926
"B" batteries		
All other dry batteries		
Total	—	8,014,202

TABLE 13. Factory Shipments of Electric Storage Batteries, by Types, 1956 and 1957

Type	1956		1957	
	Number	Selling value at works	Number	Selling value at works
		\$		\$
For internal combustion engine starting and ignition	2, 224, 527	22, 161, 548	2, 273, 713	23, 898, 359
For farm lighting plants (cells)	23, 781	234, 233	21, 145	229, 161
For railway service (cells)	24, 798	1, 024, 215	34, 471	1, 422, 602
For direct motive power (industrial trucks, mine locomotives, etc.)	3, 615	2, 086, 854	2, 507	2, 094, 509
For all other purposes	—	1, 772, 344	—	2, 237, 647
Total	—	27, 279, 194	—	29, 882, 278

TABLE 14. Production¹ of Complete Radio Receiving Sets, 1948-1957

Year	Number of sets	Selling value at works	Year	Number of sets	Selling value at works
		\$			\$
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
1952	567, 738	22, 178, 626	1957	732, 827	25, 642, 898

¹ Factory shipments since 1952.TABLE 15. Production¹ of Television Sets, 1948-1957

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
1957	434, 504	68, 012, 547

¹ Factory shipments since 1952.TABLE 16. Production¹ of Radio and Television Receiving Tubes,² 1948-1957

Year	Number	Selling value at works	Year	Number	Selling value at works
		\$			\$
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
1952	7, 221, 495	4, 672, 927	1957	16, 067, 839	11, 271, 142

¹ Factory shipments since 1952.² Does not include television picture tubes.

TABLE 17. Production¹ of Flat Irons, 1948-1957

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
		\$		\$		\$		\$
1948	Not available		233,437	2,224,472	138,213	425,610	371,650	2,650,082
1949	according to this		322,060	2,245,242	145,186	401,715	467,246	2,646,957
1950	breakdown		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	598,411	4,777,214
1956	424,084	4,332,043	141,086	853,182	46,681	161,366	611,851	5,346,591
1957	356,714	3,865,572	134,789	828,962	33,346	115,853	524,849	4,810,387

¹ Factory shipments since 1952.TABLE 18. Production¹ of Electric Toasters, 1948-1957

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
1957	193,411	2,567,346	71,983	149,667	58,830	233,586	107	3,373	324,331	2,953,972

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), 1948-1957

Year	Standard size		Miniature size ²		Photo flash ³	
	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works
		\$		\$		\$
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
1957	84,293,334	13,065,758	38,996,962	4,815,420	42,796,802	3,360,521

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), 1948-1957

Year	Number	Selling value at works
		\$
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
1957	6,909,317	5,567,803

¹ Factory shipments since 1952.

TABLE 21. Factory Shipments of Electrical Wires and Cables, 1956 and 1957 (From All Industries)

Item	1956	1957
	Value of factory shipments	Value of factory shipments
	\$	\$
Telephone cables — exchange	24,374,236	21,747,055
— toll and toll entrance	1,520,213	533,524
Telephone wires, insulated (drop wires, inside wires, other telephone wires)....	6,191,032	6,690,175
Telephone switchboard wires and cables	5,829,764	7,234,646
Television and radio wires and cables	1,731,873	1,615,710
Accessory material for telephone cables	299,186	70,210
Telephone cordage	1,059,591	861,558
Bare wires and cables (other than copperweld and aluminum).....	15,033,092	8,584,363
Bare copperweld wires and cables and copperweld-copper strands	1,873,767	1,163,127
Bare ACSR and aluminum wires and cables	16,288,236	17,733,365
Magnet wires and annunciator wires and cables	21,932,869	14,034,861
Weatherproof wires	13,961,368	8,122,471
Power cables (copper or aluminum conductors)	16,880,314	15,586,483
Signal and control cables	3,523,364	2,877,675
Portable and power supply cables	4,493,086	4,817,337
Building wires — non-metallic sheathed cables	10,061,881	8,692,044
— flexible armoured building cables	6,644,929	5,104,254
— other building wires (exclusive of types covered by preceding two items)	17,843,454	16,388,769
Flexible cords and fixture wires	4,926,886	3,805,943
Service and service entrance cables	2,566,739	1,551,394
Rubber-insulated and plastic-insulated wires and cables — general	4,902,383	4,111,719
Other wires and cables	4,580,664	2,519,145
Total	186,518,927	153,845,826

TABLE 22. Factory Shipments of Stoves Made in Canada, 1955 - 1957
(Data Assembled From All Industries)

	1955	1956	1957
Coal, wood and sawdust-burning cooking stoves and ranges, including ranges with gas or electric extension.....	No. 28,490 \$ 2,817,362	26,960 2,519,517	18,562 1,783,729
Coal, wood and sawdust-burning heating stoves and space-heaters, including all heaters, circulators, Quebec, box, oak, Franklin, globular and laundry.....	No. 48,852 \$ 760,857	45,427 730,228	40,483 740,979
Solid fuel and gas combination or oil and gas combination (not including stoves or ranges with gas extension).....	No. 10,952 \$ 2,036,186	9,859 1,912,569	7,746 1,655,862
Solid fuel and electric combination or oil and electric combination (not including stoves or ranges with electric extension).....	No. 8,226 \$ 1,870,198	9,639 2,122,177	8,604 2,066,892
Gas cooking stoves and ranges (not combinations), including all styles with ovens.....	No. 31,535 \$ 3,389,672	35,991 4,137,097	35,077 4,489,456
Gas heating stoves and space-heaters.....	No. 8,850 \$ 268,898	4,284 264,198	14,295 496,606
Gas cooking plates - no oven.....	No. 2,683 \$ 28,742	4,228 46,479	16,817 116,157
Electric cooking stoves or ranges (over 35 amperes), all styles with ovens.....	No. 199,132 \$ 30,933,531	217,159 33,225,480	194,178 30,336,566
Electric rangettes, including cord attachment and oven as one unit..	No. 41,679 \$ 1,435,307	36,756 1,358,324	21,129 891,876
Electric cooking plates and grills, including stoves for glass coffee-makers.....	No. 191,811 \$ 999,602	203,285 892,045	146,962 755,744
Oil (kerosene) and gasoline cooking stoves and ranges.....	No. 73,540 \$ 628,913	1 1	1 1
Oil (kerosene) and gasoline heating stoves and space-heaters.....	No. 2,848 \$ 58,605	1 1	1 1
Fuel oil (distillate) cooking stoves and ranges.....	No. 10,659 \$ 1,557,462	12,477 1,790,140	9,972 1,358,152
Fuel oil (distillate) heating stoves and space-heaters.....	No. 59,385 \$ 2,864,089	71,973 3,469,232	72,050 3,573,470
Total.....	\$ 49,649,424	-	-

¹ Not available - less than 3 firms reporting.

TABLE 23. Production of Electric Welding Apparatus and Welding Rod,¹ 1948 - 1957

Year	Welding apparatus		Welding rod ²	
	Electric arc welding equipment with controls	Other electric welding apparatus ³	Quantity	Value of sales
	\$	\$	tons	\$
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
1957.....	2,426,261	1,738,617	20,199	7,675,440

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(a). Factory Shipments of Industrial Control Equipment, 1956

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

TABLE 24(b). Factory Shipments of Industrial Control Equipment, 1957

Item	Value of factory shipments
	1957
	\$
Industrial Control:	
Traction control—railway and mine locomotive, trolley coach, street car and self-propelled battery operated lift trucks.....	1
A.C. and D.C. full voltage manual starters (A.C. single and polyphase) (600 v max.).....	1, 210, 932
A.C. full voltage magnetic starters for single-and multi-speeds squirrel cage motors. (600 v max. sizes 0-7)	4, 368, 955
A.C. multi-pole magnetic contactors (600 v max. sizes 0-7). A.C. and D.C. multipole industrial control relays (except thermal overload relay heaters when sold separately)	974, 364
A.C. reduced voltage manual controllers (auto-transformer, resistor, reactor, wye-delta, part winding etc., (600 v max.) (except synchronous-and wound rotor-motor controllers)	910, 722
A.C. control centres (factory assembled groups of combination magnetic switches, 600 v max.)	4, 704, 701
A.C. high voltage controllers, classes E1 and E2 (all high voltage induction and synchronous motor controllers which include short-circuit interrupters of ten times the controller rating)	2, 633, 723
Synchronous controllers (other than those included in item directly above.)	304, 731
A.C. drives (mine hoists, paper-machine drives, liquid rheostats, except package adjustable voltage drives)	1
All other A.C. magnetic control (magnetic controllers and contractors, not otherwise included, for machine tools, cranes, hoists, wound rotor motors, firepumps, etc. all voltages) (except package adjustable voltage drives).....	1, 354, 023
D.C. low voltage, magnetic contactors and controllers for timestarters and control of cranes, hoists, machine tools, single-motor mill auxiliaries, etc. (except D.C. drives, package adjustable voltage drives, and A.C. magnetic contactors with D.C. coils)	803, 505
D.C. drives (steel mill, paper-machine, rubber mill and mine hoist drives, including static electronic and semi-conductor rectifier drives, except package adjustable voltage drives.....	1
A.C. and D.C. drum-and cam-switches, controllers, dial starters and rheostats, and all motor starting resistors supplied for separate mounting (except starting resistors which are an integral part of a magnetic controller)	633, 133
A.C. and D.C. brakes	449, 795
Pilot control, pushbuttons and stations, limit-, pressure-, temperature-, liquid-level-, and plugging-switches, solenoids, terminal blocks. (except modification kits for linestarters, and pilot devices for appliances, air-conditioners, refrigerators, and heating and domestic installations)	2, 006, 789
Electronic controls, electronic relays, photo-electric controllers, resistance-welding control, voltage, load and speed control (except A.C. and D.C. drives and electronic control panels for industrial applications)	1
Renewal parts, repair and modification kits, overload relay heaters sold separately.....	3, 802, 387
All other industrial control.....	7, 417, 817
Total	31, 575, 577

1 Included with "all other".

TABLE 25. Factory Shipments of Domestic Water-Tank Heaters, 1956 and 1957 (From all Industries)

	1956		1957	
	Number	Value of factory shipments	Number	Value of factory shipments
		\$		\$
Cast iron, for coal, wood or oil (120 gallons or less)	370	25,104	520	47,697
Gas, automatic	40,691	3,010,778	43,013	2,851,537
Gas, not automatic	8,637	268,483	9,979	447,956
Electric, circulating type	31,443	247,308	21,139	158,727
Electric, immersion type	224,522	778,161	228,978	594,513
Clamp-on-type	15,498	68,921	11,867	55,560
Electric, automatic storage tank type, including tank and controls	58,243	3,741,428	60,701	4,024,437
Total	379,404	8,140,183	376,197	8,180,427

TABLE 26. Production¹ of Household Mechanical Refrigerators,² 1948-1957

Year	Number	Selling value at works	Year	Number	Selling value at works
		\$			\$
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	47,443,340
1952	244,433	46,046,709	1957	235,539	42,429,856

¹ Factory shipments since 1952.² Complete units (electric and gas), all sizes.

TABLE 27. Factory Shipments of Refrigeration Equipment, 1956 and 1957 (From All Industries)

Type	1956		1957	
	Number	Selling value at works	Number	Selling value at works
		\$		\$
Household refrigerators:				
Household mechanical refrigerators, complete units (electric and gas), all sizes	269,213	47,443,340	235,539	42,429,856
Self-contained units:				
Milk coolers, all sizes	696	126,886	375	87,532
Ice-cream cabinets, all sizes	3,160	1,296,329	2,322	867,343
Beverage coolers, all sizes	7,265	2,524,652	5,852	1,510,965
Water-coolers, all sizes	239	51,678	68	34,186
Freezers - Frosted food cabinets	108	46,399	8	8,434
- Home freezers, all sizes	12,691	3,178,066	20,908	4,619,438
Fixtures:				
Display cases, normal temperature	2,809	2,226,729	2,637	1,750,326
Low-temperature refrigerators	817	675,436	687	643,440
Reach-in refrigerators (remote only)	472	216,727	251	172,487
Sectional walk-in coolers, all types	457	751,080	763	963,441
Self-contained commercial refrigerator products:				
Display cases, all sizes	1,459	944,034	1,686	1,166,993
Reach-ins, all sizes	608	259,013	584	335,406

TABLE 27. Factory Shipments of Refrigeration Equipment, 1956 and 1957
(From All Industries) - Concluded

Type	1956		1957	
	Number	Selling value at works	Number	Selling value at works
		\$		\$
Evaporators:				
Unit cooler type, all sizes	—	1,078,923	—	349,985
Fin coils, all sizes	—	510,372	—	431,119
Ice-makers — Domestic	—	55,573	—	16,386
— All other Sizes	—	—	—	18,330
Compressors and condensing units:				
Domestic, for assembly in individual household cabinets	36,841	2,149,335	35,123	1,588,759
Commercial — Low pressure	2,531	555,733	3,013	607,497
— Ammonia				
Evaporative condensers:				
Low pressure	—	1,470,115	—	916,855
Ammonia	—	—	—	—
All other refrigeration equipment	—	8,999,025	—	7,556,397
Total	—	74,557,445	—	66,075,155

TABLE 28. Factory Shipments of Cutouts and Fuses, 1956 and 1957

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 therewith (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 28. Factory Shipments of Cutouts and Fuses, 1956 and 1957 - Concluded

Type	Selling value at works	
	1956	1957
	\$	
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		1,598,216
Fuse links for distribution cutouts		392,847
Oil fuse cutouts including fuse links therefor and repair parts		1
Power fuses (solid material type) - up to and including 600 volts		572,474
Power fuses 601 volts and above (solid material and current limiting types), fuse supports, fuse mountings and repair parts		99,702
Fuse links for power fuses 601 volts and above (solid material and current limiting types)		1
Cartridge fuses		574,061
Plug fuses		481,170
Individual cutouts for cartridge and plug fuses		176,990
All other fuses		185,523
Renewal elements for cartridge fuses		1
Total		4,060,983

¹ Included in "all other fuses".

TABLE 29. Factory Shipments of Electric Lighting, Fixtures 1956 and 1957 (From all Industries)

Type	Selling value at works	
	1956	1957
	\$	
Residential:		
Incandescent	5,064,000	4,966,000
Fluorescent	951,000	578,000
Commercial and industrial:		
Incandescent	3,199,000	3,683,000
Fluorescent	16,331,000	17,600,000
Street-lighting	3,595,000	4,131,000
Searchlights and floodlights	1,126,000	1,368,000
Other lighting equipment ¹	2,957,000	2,772,000
Total	33,223,000	35,098,000

¹ Does not include floor lamps or table lamps.

TABLE 30. Factory Shipments of Wiring Devices, 1956 and 1957

Type	Selling value at works	
	1956	1957
	\$	
Incandescent sockets (lamp holders) - metal shell	236,128	322,362
- porcelain, plastic, rubber and others	1,138,228	977,343
Fluorescent sockets (lampholders) all types	382,985	421,323
Switches - surface and flush types (except switches enclosed safety type)	1,574,421	1,857,293
- appliance	1,491,475	1,629,012
- canopy, pendant and all others	448,342	67,839
Receptacles (convenience outlets) single and duplex	967,942	1,315,849
Wall plates for switches and outlets	410,267	417,453
Attachment plugs, caps and cord connectors	356,663	643,474
Heater (or appliance) plugs		
Current taps and attachment plugs	141,769	91,599
Cord sets (all types)	2,318,185	1,604,470
Outlet and switch boxes including covers	3,079,846	3,032,037
Outlet box connectors for armored and non-metallic sheathed cable	984,788	1,152,796
Other wiring devices (except automobile starting switches and time switches)	3,305,000	4,096,862
Total	16,836,039	17,429,712

TABLE 31. Factory Shipments of Converter Equipment, 1956 and 1957

Type	Number	Total rating	Selling value at works
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
1957			
Motor-generator sets—A.C. to D.C.	334	54,984	4,594,524
Frequency changer sets—A.C. to A.C.	—	—	84,962
Mercury arc and metallic rectifiers for power purposes	—	—	2,017,880
Parts and supplies for converter equipment.....	—	—	556,057
Total	—	—	7,253,423

TABLE 32. Production¹ of Pole Line Hardware, 1948 - 1957 (From All Industries)

Year	Selling value at works	Year	Selling value at works
	\$		\$
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
1952	10,213,000	1957	11,988,000

¹ Factory shipments since 1952.

TABLE 33. Production¹ of Domestic Washing Machines, 1948 - 1957 (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
		\$		\$		\$		\$		\$
1948	8,062	149,429		296,800	27,573,419	29,611	3,530,832	334,473	31,253,680	
1949	3,906	68,537		304,273	27,957,728	38,075	4,475,176	346,254	32,501,441	
1950	2,559	40,228	30,310	4,344,593	22,815,441	15,323	1,961,979	301,110	29,162,241	
1951	382	6,672	26,951	5,409,527	19,611,547	11,248	1,418,120	236,730	26,445,866	
1952	641	12,915	26,523	4,985,666	21,293,150	10,184	1,255,334	253,538	27,547,065	
1953	1	22	26,427	5,149,210	21,747,767	10,118	1,164,607	247,824	28,061,606	
1954	—	—	27,629	5,448,977	18,780,608	6,411	712,684	226,238	24,942,269	
1955	—	—	36,782	7,136,332	23,765,765	5,420	622,432	279,802	30,524,529	
1956	—	—	49,765	9,292,117	23,552,620	5,278	636,245	305,922	33,480,982	
1957	—	—	52,569	10,313,242	20,283,254	3,546	414,987	276,747	31,011,483	

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 units valued at \$49,750 in 1955; 473 units valued at \$45,124 in 1956 and 86 units valued at \$9,600 in 1957.

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, 1948 - 1957 (From All Industries)

Year	Number	Selling value at works	Year	Number	Selling value at works
		\$			\$
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
1952	12,316	906,010	1957	2,740	310,000

¹ Factory shipments since 1952.

TABLE 35. Production of Miscellaneous Electrical Appliances, 1955 - 1957

Item	1955		1956		1957	
	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works
		\$		\$		\$
Heating pads	132,574	526,497	174,453	563,875	144,277	499,245
Clothes dryers, automatic	38,027	5,191,454	55,389	7,743,393	65,950	9,191,492
Floor polishers	190,200	6,121,000	214,026	6,731,694	205,525	6,559,657
Coffee makers, domestic	113,718	1,143,112	137,687	1,348,719	131,049	1,510,628
Kettles	317,002	2,100,873	328,898	2,145,943	330,065	2,176,199
Fry pans	122,664	1,640,386	337,938	3,840,210	339,070	3,910,672
Shavers	288,862	3,947,032	281,805	3,945,799	230,156	2,755,165
Fans:						
Portable	166,029	1,754,023	217,779	2,181,778	164,337	1,547,071
All other	11,662	388,634	13,316	763,979	15,303	491,041

TABLE 36. Production¹ of Watthour Meters, 1948 - 1957

Year	Quantity	Selling value at works	Year	Quantity	Selling value at works
	No.	\$		No.	\$
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
1952	391,232	6,190,325	1957	469,188	7,951,000

¹ Factory shipments since 1952.

TABLE 37. Factory Shipments of Capacitors, 1956 and 1957 (From all Industries)

Item	1956		1957	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
	No.	\$	No.	\$
Radio and TV capacitors, including radio condensers	—	5,000,700	—	3,828,846
Capacitors for electronic application (other than radio and TV)	—	1,634,197	—	1,562,795
Fluorescent ballast capacitors	—	—	—	—
Miscellaneous capacitors	—	—	—	—
Total	—	6,634,897	—	5,391,641

TABLE 38. Production Workers, by Months, 1956 and 1957

Month	1956			1957		
	Male	Female	Total	Male	Female	Total
	number					
January	37,006	16,677	53,683	39,937	15,748	55,685
February	38,340	16,354	54,694	39,959	15,490	55,449
March	39,211	16,498	55,709	39,782	15,413	55,195
April	39,037	16,489	55,526	39,489	15,193	54,682
May	39,214	16,335	55,549	38,985	15,353	54,338
June	39,847	16,612	56,459	38,837	15,355	54,192
July	39,827	16,468	56,295	37,920	15,507	53,427
August	40,975	17,438	58,413	37,876	15,845	53,721
September	41,293	17,578	58,871	38,187	16,167	54,354
October	41,777	17,715	59,492	37,791	15,803	53,594
November	41,535	17,373	58,908	37,519	15,475	52,994
December	40,885	16,258	57,143	36,490	14,624	51,114
Average	39,912	16,816	56,728	38,585	15,494	54,079

TABLE 39. Employees and Earnings in the Electrical Apparatus and Supplies Industry, by Provinces, 1956 and 1957

Province	Number of employees					Earnings		
	Supervisory and office		Production and related workers		Total employees	Supervisory and office	Production and related workers	Total earnings
	Male	Female	Male	Female				
	dollars							
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
1957								
Newfoundland, Nova Scotia and Quebec	6,056	2,090	11,276	4,952	24,374	39,670,879	55,348,031	95,018,910
Ontario	13,474	5,011	25,874	10,263	54,622	87,792,034	128,941,852	216,733,886
Manitoba	240	73	700	136	1,149	1,139,196	2,588,076	3,727,272
Saskatchewan and Alberta	44	13	177	10	244	245,416	608,215	853,631
British Columbia	244	108	558	133	1,043	1,850,674	2,232,274	4,082,948
Canada	20,058	7,295	38,585	15,494	81,432	130,698,199	189,718,448	320,416,647

TABLE 40. Capital and Repair Expenditures in the Electrical Apparatus and Supplies Industry, 1953-1957

Industry	Capital expenditures		Repair and maintenance expenditures		Total capital and repair expenditures
	Construction	Machinery and equipment	Construction	Machinery and equipment	
thousands of dollars					
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					
Batteries	³	645	118	516	1,279
Heavy electrical machinery and equipment	4,383	6,959	841	4,576	16,759
Telecommunication equipment ¹	1,392	3,228	693	1,230	6,543
Refrigerators, vacuum cleaners, and appliances ..	1,075	2,407	336	1,325	5,143
Miscellaneous electrical products	7,834	13,636	1,771	7,948	31,189
Total	14,684	26,875	3,759	15,595	60,913
1957 ²					
Batteries	905	1,125	³	731	2,761
Heavy electrical machinery and equipment	4,271	6,040	1,293	4,694	16,298
Telecommunications equipment	1,242	2,303	382	1,340	5,267
Refrigerators, vacuum cleaners, and appliances ...	1,762	1,699	282	1,178	4,921
Miscellaneous electrical products	7,471	19,378	1,517	6,583	34,949
Total	15,651	30,545	3,474	14,526	64,196

¹ See footnote to Table 2.² Preliminary.³ Included in "Heavy electrical machinery and equipment."

TABLE 41 Imports and Exports of Selected Commodities Considered to be of Interest to the Electrical Industry, 1956 and 1957

Product	1956		1957	
	Quantity	Value	Quantity	Value
		\$		\$
(a) Imports:				
Batteries for flashlights, and parts	—	89, 517	—	163, 537
Batteries, hearing-aid, and parts	—	339, 885	—	365, 046
Batteries, electric and galvanic primary, and complete parts, n.o.p.	—	519, 539	—	882, 382
Storage batteries, n.o.p., and parts, including separator walls of wood	—	2, 046, 040	—	2, 322, 829
Cleaners, electric vacuum	No. 120, 136	4, 202, 280	139, 046	4, 502, 201
Cleaners, hand-vacuum, and attachments, and complete parts of all vacuum cleaners	—	2, 341, 889	—	2, 218, 087
Cooking stoves, electric, valued at more than \$25 each ..	16, 064	1, 928, 951	8, 178	964, 783
Space-heating and cooking apparatus, electric, n.o.p.	—	4, 555, 915	—	3, 056, 464
Heating apparatus, electric, other than for cooking or space-heating	—	2, 105, 356	—	2, 168, 518
Dynamos or generators, and parts	—	15, 629, 989	—	17, 058, 274
Fuses, fuse plugs and cutouts, electric, and complete parts, n.o.p.	—	1, 422, 541	—	1, 427, 744
Fluorescent tubes and other arc lamps	" 864, 808	672, 057	559, 559	550, 988
Home or farm freezers, electric	" 46, 372	8, 488, 531	42, 346	7, 157, 844
Photoflash lamps	" 5, 712, 111	298, 805	460, 034	29, 778
Lamps, electric, incandescent, carbon filament	" 6, 079	1, 348	3, 519	835
Lamps, electric, incandescent, metal filament	" 26, 109, 833	2, 659, 064	26, 073, 705	3, 908, 290
Lights — electric, head, side and tail lights, n.o.p.: electric torches or flashlights and parts	—	1, 471, 498	—	1, 976, 639
Electric light fixtures and appliances, n.o.p., and complete parts	—	6, 654, 987	—	6, 634, 989
Lightning arresters, choke coils, reactors and other protective devices, and complete parts, n.o.p.	—	636, 498	—	665, 398
Magnetos and complete parts, for the manufacture of internal combustion engines	—	79, 077	—	77, 180
Electrical instruments and apparatus of precision of a class or kind not made in Canada, as enumerated in tariff item 445n.	—	9, 256, 966	—	13, 061, 441
Meters, electric, and complete parts	—	3, 570, 459	—	2, 675, 747
Motors, electric, valued at less than \$10 each	" 159, 997	539, 917	142, 944	409, 308
Motors, electric, n.o.p., valued at \$10 or over and complete parts	—	19, 768, 125	—	20, 573, 047
Refrigerators, electric, domestic or store, completely equipped or not	" 109, 832	18, 734, 907	94, 684	16, 033, 493
Refrigerators, n.o.p., equipped or not	" 3, 352	359, 825	2, 519	279, 989
Refrigerators, parts of	—	17, 039, 156	—	11, 641, 427
Rheostats, controllers and other starting and controlling devices, and parts, n.o.p.	—	12, 562, 250	—	11, 082, 312
Sad irons, electric, and parts	—	734, 837	—	507, 048
Self-contained lighting outfits and parts, n.o.p.	—	32, 966	—	36, 622
Sockets, outlets and receptacles and parts, n.o.p.	—	2, 826, 526	—	2, 092, 372
Spark plugs, magnetos, n.o.p., and other ignition apparatus and parts	—	784, 190	—	991, 902
Switches, switchboards, n.o.p., circuit breakers and parts	—	17, 456, 021	—	14, 698, 291
Switch gear, flame-proof, electric, for use underground in coal mines and parts	—	178, 376	—	57, 193
Telegraph apparatus, electric, and parts	—	7, 550, 355	—	8, 018, 237
Telephone apparatus, electric, and parts	—	16, 477, 431	—	18, 127, 042

TABLE 41. Imports and Exports of Selected Commodities Considered to be of Interest to the Electrical Industry, 1956 and 1957—Continued

Product	1956		1957	
	Quantity	Value	Quantity	Value
		\$		\$
(a) Imports:—Concluded:				
Television receiving sets	No. 8,341	789,932	4,036	397,104
Transformers and parts, n.o.p.	—	10,144,366	—	10,418,714
Washing machines, electric domestic	33,983	4,479,242	35,961	5,082,355
Washing machines, domestic, parts of	—	4,289,267	—	4,186,630
Radio tubes	8,588,435	8,894,557	6,410,000	6,495,016
Radio receiving sets	78,393	2,168,640	146,806	2,943,594
Radio receiving sets, parts of, as enumerated in tariff item 445o	—	6,769,445	—	6,094,631
Radio tube parts as enumerated in tariff item 445p	—	7,347,073	—	5,729,291
Radio and wireless apparatus, electric, n.o.p.	—	44,726,775	—	34,059,258
Electric dry-shaving machines, for use in removing human hair, and parts thereof	—	3,817,367	—	4,662,053
Electric steam turbo generator sets, 700 h.p. and greater, of a class or kind not made in Canada, and parts	27	6,515,869	10	3,700,520
Electric or gas welding apparatus, not including motors	—	7,492,596	—	7,382,568
Sound equipment	—	4,037,589	—	2,851,330
Electrical apparatus, n.o.p., and parts	—	28,542,467	—	32,342,475
Welding rods or welding wires of all kinds	cwt. 174,403	4,353,636	145,709	4,055,207
Equipment for generating electric power for farm purposes only	—	72,993	—	50,561
Sewing machines	No. 163,097	5,333,381	157,846	5,132,602
Dental engines, electric	275	48,309	433	58,977
Ice-making and refrigerating machinery, n.o.p., and parts	—	7,981,267	—	7,436,853
Water turbines, n.o.p., and parts	—	834,762	—	2,463,536
Air-conditioning apparatus, including blowers and ventilating machinery, and parts	—	11,912,989	—	11,233,119
Air conditioners, room size	24,812	3,844,880	22,935	4,019,041
Ironers, domestic electric	1,490	110,562	534	36,565
Clothes dryers, domestic electric	10,994	2,091,157	12,642	2,349,716
Oil burners, n.o.p.	5,349	541,963	2,144	258,978
Heating and cooking apparatus, parts of	—	14,614,153	—	12,164,442
Industrial furnaces and parts	—	3,233,170	—	3,703,879
Water heater parts, including automatic pilots, thermostatic and other controlling devices	—	558,045	—	542,749
Water heaters, gas	18,478	946,123	29,421	1,504,171
Water heaters, electric	23,412	967,978	18,125	736,766
Water heaters, n.o.p.	4,150	237,777	3,260	228,764
Aluminum wire and cable, twisted, stranded or not, reinforced with steel or not	cwt. 18,787	676,785	47,411	1,743,066
Copper wire, n.o.p.	lb. 193,483	186,350	93,073	51,387
Non-ferrous wire, single or several, covered with any material, including cable so covered	—	8,968,891	—	6,870,268
Non-ferrous wire, twisted, braided or stranded, including wire rope and wire cable, coated or not, n.o.p.	—	657,750	—	272,697
Non-ferrous wire of all kinds, n.o.p.	—	802,833	—	507,209
Insulators, electric, porcelain and parts	—	1,136,692	—	954,357
Insulators, electric, n.o.p., and complete parts	—	777,638	—	688,799
Phonographs, graphophones, gramophones and finished parts	—	1,132,393	—	1,670,817
Phonographs, coin-operated	No. 1,992	1,180,435	2,284	1,403,943
X-ray apparatus	—	3,636,780	—	3,968,336

TABLE 41. Imports and Exports of Selected Commodities Considered to be of Interest to the Electrical Industry, 1956 and 1957 - Concluded

Product	1956		1957	
	Quantity	Value	Quantity	Value
		\$		\$
(b) Exports:				
Storage batteries No.	4,384	53,699	3,441	58,673
Storage battery parts	—	68,948	—	122,823
Batteries and parts, n.o.p.	—	71,856	—	11,476
Radio receiving sets (except batteries) "	5,662	541,328	5,817	461,151
Radio and wireless apparatus, n.o.p. (except batteries)	—	6,080,559	—	4,527,834
Telegraph and telephone apparatus, n.o.p.	—	2,486,096	—	2,148,791
Transformers and parts	—	669,162	—	1,835,673
Dynamos and generators, and parts	—	1,676,961	—	997,838
Electric meters and parts	—	2,006,718	—	2,303,290
Electric motors and parts	62,341	2,146,921	—	2,295,659
Electric stoves and parts	949	164,254	871	175,491
Electric heating and cooking devices, domestic, n.o.p.	—	75,405	—	98,295
Spark plugs	—	1,630,513	—	1,960,353
Electrical parts for vehicles and engines	—	268,977	—	283,596
Switches, sockets and other wiring devices	—	106,955	—	146,691
Electric lamps and shades	—	36,580	—	26,661
Electric light fixtures and parts	—	162,220	—	156,693
Washing machines, domestic, electric	11,415	947,679	10,185	856,973
Electric vacuum cleaners and parts	16	5,497	5	4,154
Refrigerators and parts, power	3,368	398,004	2,019	366,268
Electrical apparatus, n.o.p.	—	3,399,799	—	7,848,716

TABLE 42. Fuel and Electricity Used¹ in the Electrical Apparatus and Supplies Industry, 1956 and 1957

Kind	1956		1957	
	Quantity	Cost at plant	Quantity	Cost at plant
		\$		\$
Bituminous coal (a) From Canadian mines ton	8,221	89,658	6,985	75,877
(b) Imported	84,443	971,108	88,163	1,006,530
Sub-bituminous coal (from Alberta mines only)	32	447	17	258
Anthracite coal	4,033	99,024	2,029	32,896
Lignite coal	826	6,142	510	2,916
Coke (for fuel only)	4,017	73,633	1,910	50,890
Gasoline, (including gasoline used in cars and trucks) Imp. gal.	970,816	363,137	1,093,351	429,877
Kerosene or coal oil	9,370	2,322	8,743	2,320
Fuel oil	15,139,346	1,937,418	16,345,466	2,120,903
Gas (a) Liquefied petroleum gases (propane, etc.)	581,663	101,584	757,226	122,929
(b) Other manufactured gas	416,393	361,051	355,696	340,548
(c) Natural gas	263,243	298,523	258,565	343,157
Other fuel	—	323,614	—	406,945
Electricity purchased	502,939,137	4,536,606	491,873,165	4,588,918
Total	—	9,164,267	—	9,525,064
Electricity generated for own use	16,254,000kwh.	—	18,849,300kwh.	—

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1957

Name of firm	Location of plant
(a) Batteries	
Newfoundland:	
Hanning Electric Co. Ltd.	Topsail Hill, St. John's
Quebec:	
Cipel (Canada) Ltd.	Rue Notre Dame, Valleyfield
Hart Battery Division, The Linseed Oil Co. Ltd.	170 St. George St., St. Johns
New Era Battery Company	2240 Bellechasse St., Montreal
Service Specialty Company Ltd.	90 Bates Road, Outremont
Ontario:	
Burgess Battery Company	415 Buttrey St., Niagara Falls
Electric Storage Battery Co. (Canada) Ltd.	663 Warden Ave., Scarborough & 2301 Dixie Rd., Port Credit
General Motors of Canada Ltd.	Oshawa
Globe Union Canada (1953) Ltd.	Ajax
Gould-National Batteries of Canada, Ltd.	Maple St., Kingston and Fort Erie
Hay Battery Co., Limited, The	1300 Barton St. E., Hamilton
La Salle Lead Products Ltd.	680 Wyandotte St. E., Windsor
Mallory Battery Company of Canada Limited	228 St. Helen's Ave., Toronto
National Carbon Company	805 Davenport Road, Toronto and Walkerton
Prest-O-Lite Battery Co. Ltd.	1352-60 Dufferin St., Toronto
Radium Battery	374 Barton St. E., Hamilton
Manitoba:	
Globelite Batteries Limited	1021 Winnipeg Ave., Winnipeg
Ray-O-Vac (Canada) Limited	Barry St. and Sargent, St. James
Alberta:	
Alberta Battery Company Ltd.	1312 Centre St. S., Calgary
Electric Storage Battery Co. of Canada Ltd.	104-58th Ave., Calgary
Gould-National Batteries of Canada, Ltd.	510C-6th St. E., Calgary
Prest-O-Lite Battery Co. Ltd.	58th Ave. & 4th St. S. E., Calgary
British Columbia:	
Dollina Enterprises Ltd.	901 E. Hastings, Vancouver
Francis Battery Service	1412 Quadra St. W., Victoria
Giant Battery Co. Ltd.	1290 Howe St., Vancouver
Globelite Batteries (B.C.) Limited	8650 Barnard St., Vancouver
Jones Bros. Batteries, Limited	1314 Quadra St., Victoria
Major Batteries Ltd.	271 Ingram St., Duncan
Marshall Batteries Ltd.	532 E. Broadway St., Vancouver
Russell Batteries	16 Nicol St., Nanaimo
X-I.KO-Manufacturing Ltd.	1835 Powell, Vancouver
(b) Heavy Electrical Machinery and Equipment	
Quebec:	
Air Reduction Canada Limited	905 Hodge St., Montreal
Alpha Electronic Products Co. Ltd.	205 St. Zotique St., Montreal
Beaupre Engineering Works Co.	3935 Newmarch St., Verdun
Brown, Boveri (Canada) Ltd.	St. Johns
Cemco Switchgear Ltd.	561 Maisonneuve Street, Granby
Devoe Electric Switch Co. Ltd., The	475 Metropolitan Blvd., Lachine
Electrical Mfg. Co. Ltd.	4th St., Montmagny
Electric Tamper & Equipment Co. of Canada Ltd.	160 St. Joseph St., Lachine
Electric Switchgear (1953) Ltd.	115 St. Denis Ave., St. Lambert, Montreal
Girard, Roger Inc.	10123 Hotel De Ville, Montreal
Hughes, Benjamin, Electric Company	12050 Reed St., Montreal
Les Transformateurs Ponco Ltée	3950 Wellington St., Verdun
Ontario:	
Acme Electric Corporation Ltd.	Northline Rd. #50, Toronto
Allanson Armature Mfg. Co. Ltd.	33 Cranfield Rd., Toronto
Allen-Bradley Canada Ltd.	135 Dundas St., Galt
Allied Industrial Electronics of Canada Ltd.	9 Torbarrie Rd., Toronto
Amalgamated Electric Corp. Ltd.	384 Pape Ave., Toronto

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1957 -- Continued

Name of firm	Location of plant
(b) Heavy Electrical Machinery and Equipment -- Concluded	
Ontario -- Concluded:	
Amplifone Canada Ltd.	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.	950 Warden Ave., Scarborough
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 Rockwell Ltd.	46 Northline Rd., Toronto
Canadian Sterling Electric Ltd.	430 Cannon St. E., Hamilton
Canadian Westinghouse Co. Ltd.	286 Sanford Ave. N., Hamilton & Stratford
Canadian Westinghouse Co. Ltd.	Clark Side Road & Huron St., London
Cansfield Electrical Works Limited	280 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.	Speedvale Ave. & Edinburgh Rd., 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
Milton, Alan, Machinery	Chestnut St. E., Whitby
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-Allen of Canada Ltd.	1236 Birchmount 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
Stark, H.G. & Co. Ltd.	126 Willowdale St., Willowdale
Super Motor & Electric Ltd.	85 Edwin St., Kitchener
Supreme Power Supplies Ltd.	Newcastle & Audley Sts., Mimico
Trans-Coil Products	120 Manville Rd., Scarborough
Union Switch Box Co. Ltd.	35 McCaul St., Toronto
Ward Leonard of Canada Ltd.	1070 Birchmount 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
Saskatchewan:	
Pioneer Electric (Sask.) Ltd.	1600-1st Ave., Regina
Smith - Roles & Co.	34th St. & Albert Ave., Saskatoon
Alberta:	
Pioneer Electric Alberta Ltd.	5727-53A Ave., Red Deer
British Columbia:	
British Columbia Transformer Co. Ltd.	4204 Lougheed Hwy., North Burnaby
Comco Electrical Mfg. Co. Limited	22 E. 5th Avenue, Vancouver
Electric Panel Manufacturing Ltd.	1100 W. 6th Ave., Vancouver
Johnson & Phillips (Canadian Sales) Ltd.	Annacis Island Industrial Estate, New Westminster
Transco Mfg. Ltd.	7545 Conway St., Burnaby

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1957 - Continued

Name of firm	Location of plant
(c) Telecommunication Equipment (Formerly Radios and Radio Parts)	
Nova Scotia:	
Cossor (Canada) Ltd.....	301-303 Windsor St., Halifax
Quebec:	
Amplitrol Electronics Ltd.	7080 Hutchison St., Montreal
Audio-Vox Company	4510 DeLaroche, Montreal
Automatic Telephone & Sound Services	256 Ave. Regina, Montreal
Berry, C.M.	Montreal Airport, Dorval
Canadian Aviation Electronics Ltd.	6214 Cote De Liesse Road, Montreal
Canadian Marconi Company	2442 Trenton Road, Montreal
Chaput, Paul, Limitée	2626 Bates Rd., Montreal
Crosbie, A. & Sons Limited	9730 Jeanne Mance St., Montreal
Electrical Products Mfg. Co. Ltd.	5785 Pare St., Montreal
Electrolabs Reg'd.	7385 St. Lawrence Blvd., Montreal
Electronic Enterprises Ltd.	930 St. George St., Montreal
King's Electronics (Canada) Ltd.	2425 Grand Blvd., Montreal
Lifco Record Players	699 St. Maurice, Montreal
Monarch Radio Mfg. Co.	3837 Arcade St., Montreal
Montreal Phono Co. Ltd.	52 Nazareth St., Montreal
Multi-Vox Ltd.	9967 St. Michel Blvd., Montreal
National Sound Services Ltd.	1785 Bois Franc, Montreal
Norel Electrical Products	282 Ontario St. W., Montreal
Pylon Electronic Development Company Limited	161 Clement St., Ville La Salle
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
Shelbern Industries (Canada) Ltd.	642 de Courcelle St., Montreal
Standard Telephones and Cables Mfg. Co. (Canada) Ltd.	9600 St. Lawrence Blvd., Montreal
Still Electronics	6820 St. Urbain St., Montreal
Supior Electronics Inc.	7205 St. Urbain St., Montreal
Televex Systems Reg'd.	410 Lafayette Street, Quebec
Ontario:	
Addison Industries Ltd.	9-11 Hanna Ave., Toronto
Aerovox Canada Limited	1551 Barton St. E., Hamilton
Allied Circuit Techniques Ltd.	1 Robinson St., Oakville
Andrew Antenna Corp. Ltd.	606 Beech St., Whitby
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
Avionics Limited	Stone Rd., Niagara-on-the-Lake
Beama Engineering Ltd.	361 King St. E., Toronto
Benco Television Associates Ltd.	27 Tabor Rd., Rexdale
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 Forbes and Wagner Ltd.	Victoria St., Stevensville
Canadian General Electric Co. Ltd.	830 Lansdowne Ave., Toronto
Canadian General Electric Co. Ltd.	189 Dufferin St., 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
Centralab Canada Ltd.	Ajax
Collben Manufacturing Co. Limited	5 Thorpe, Dundas
Collins Radio Co. of Canada Ltd.	11 Bermondsey Rd., Toronto
Consolidated Electronic Equipment Co. Ltd.	94 Sheppard Ave. W., Willowdale
Crown Metal Products	P.O. Box 156, Belmont
Darcy, J.H. Ltd.	51 Abbott St., Smiths Falls
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 Craftsmen Ltd.	30 Weber St. N., Waterloo
Electronic Materiels 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, 1957 - Continued

Name of firm	Location of plant
(c) Telecommunication Equipment - Concluded	
Ontario - Concluded:	
Erie Resistor of Canada Ltd.	7 Fraser Ave., Trenton
Essex Electronics of Canada Ltd.	99 Wragge St., Trenton
General Communications Limited	980 O'Connor Dr., Toronto
General Instruments - F.W. Sickles of Canada Ltd.	Weber St. S., Waterloo
Hackbusch Electronics Ltd.	23 Primrose Ave., Toronto
Hallicrafter Canada Ltd.	Don Mills
High Frequency Development Co.	3468 Dundas St., 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	Araprior
Meredith, C.C., & Co., Limited	Thomas Street, Streetsville
Methode Mfg. Canada Ltd.	10th Ave., Hanover
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
Philips Electronics Industries	11-19 Brentcliffe Rd., Leaside
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
Raytheon Canada Limited	61 Laurel St. East, Waterloo
RCA Victor Company Limited	Prescott
RCA Victor Company Limited	Renfrew
Rotronic Corp. Ltd.	380 Adelaide St. W., Toronto
Servomechanisms (Canada) Ltd.	Rexdale Blvd. & Kipling Ave., 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	130 Simcoe St., Toronto
Standard Television Products Ltd.	108 Sydney St., Kitchener
Stanwyck Coil Products Ltd.	17 Laurier St., Hawkesbury
Sylvania Electric (Canada) Limited	Broad Street East, Dunnville
Telecom Limited	163½ Church St., Toronto
Tequipment Mfg. Co.	729 Dundas St. (rear), London
Tenatronics Ltd.	Davis Drive, Newmarket
Titania Electric Corporation of Canada Limited	Herbert & Brock Sts., Gananoque
Valeriotte Electronics Ltd.	3 Victoria Road, Guelph
Varian Associates of Canada Ltd.	45 River Drive, Georgetown
Watkins Electronics Ltd.	9 Dwight Ave., Toronto
Welwyn Canada Ltd.	1255 Brydges St., London
Winco 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.	210-9th Ave., Calgary
British Columbia:	
Barvic Engineering Limited	909 Beach Ave., Vancouver
Canadian Aviation Electronics Ltd.	8265 Fraser St., Vancouver
Chisholm Industries Ltd.	Electronic Ave., 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.	120 E. Cordova St., Vancouver
West Coast Radio Telephone Mfg. Co.	1366 W. Pender St., Vancouver

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1957 - 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.	142 Port Royal W., Montreal
Lalonde, Frank P., Ltd.	Dorval
Progress Restaurant & Equipment Mfg. Ltd.	4865 St. Lawrence Blvd., Montreal
Racine Appliances Mfg. Reg'd.	Frontenac, Granby.
Roy, E., Industries, Ltd.	L'Assomption
Wright, P. M., Electrical Co.	1327 Dorchester St. W., Montreal
Ontario:	
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 Fractional Motors	Airport Rd., Warton.
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	56 Esplanade St. 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
Endress, George W., Co. Ltd.	Building 116, Avenue D, Ajax
Ever-Eright 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 Eglinton 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
Hanskraft, (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
Knight Rebound Controllers Ltd.	361 Jackson St. W., Hamilton
Leader Fan Co. Ltd.	1228-30 Dupont St., Toronto
McGraw Electric Co. (Canada) Ltd.	75 Chisholm St., Oakville
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.	220 Islington Avenue South, Toronto
Superior Electrics Limited	Pembroke St. E., Pembroke
Switson Industries Ltd.	201 Major St., Welland
Thermax Division de Moffats Ltd.	79 West. St. South, Orillia
Triad Appliances	1 Torbarrie Rd., Weston
Universal Cooler Co. Ltd.	145 Sherwood Drive, Brantford
Wood, W.C., Ltd., The	5 Arthur St. S., Guelph.

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1957 - 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 Limited	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	8255 St. Michel Blvd., Montreal
Haliburton & White Limited	8235 Mountain Sights Ave., 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
Kital-Electric	6797 Vimy Ave., Montreal
L'Air-Liquide Society	5030 Rouen St., Montreal
Metal Spinning Works	994 Rachel E., 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	8465 St. Maurice St., St. Hyacinthe
Solex Company Ltd., The, Debt. of C.G.E. Co.	280 Faillon St. W., 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.	4700 Amiens Street, Montreal
Universal Electric Products Co. Ltd.	2155 Moreau St., Montreal
Ontario:	
Allied Fluorescent & Incandescent Ltd.	15 Towns Rd., Toronto
Alwyn Lighting Products	469 King St. W., Toronto
Amcan Electrical Harness Ltd.	53 Fraser Ave., 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 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, 1957 - 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
Brite-Lite Products Co. Ltd.	9 Magnificent Rd., Toronto
Burger Lighting Products Ltd.	27 Sackville Place, Toronto
Burndy Canada Ltd.	1530 Birchmount Rd., Scarborough
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., Scarboro Junction
Chadwick-Carrol Brass & Fixtures Limited	365 Wilson St., Hamilton
Colonial Lighting Co., The	45 Knoll St., Port Colborne
Commercial Enclosed Fuse Co. (Canada) Ltd.	482 Wellington St. W., Toronto
Conduits National Company Ltd.	33 Labatt Ave., Toronto
Cords (Canada) Ltd.	149 Sterling Rd., Toronto
Crouse-Hinds Company of Canada Ltd.	1160 Birchmount Rd., Scarborough
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.	147 Front St., Toronto
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
Etlin, H.B., Co. Ltd.	1850 Wilson Ave., Toronto
Federal Pacific Manufacturing Co.	19 Waterman Ave., Toronto
Fixturlite Mfg. Co.	1457 Dundas St., Toronto
Frost, L.H. (Canada)	1074 Service Rd., 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	23 Brydon Dr., Rexdale
Kearney, James R., Corp. of Canada Ltd.	430 Elizabeth St., Guelph
Kelk, George Limited	130 Willowdale Ave., Willowdale
Kondu Mfg. Co. Ltd.	South Street, Preston
Magnetic Coil Co.	67 Ontario St. S., Kitchener
Markel Electric Products Ltd.	23 Lewis St., Fort Erie
Marr Electric Ltd.	160 Perth Ave., Toronto
Mellon Electric Limited	370 Olivewood Rd., Toronto
Monitor 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
Partonics (Canada) Ltd.	Bassett Avenue, Fort Erie
Pasteuray of Canada Ltd.	426 Cannon St. E., Hamilton
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
Setco Manufacturing Co. Ltd.	Don Mills
Slater, N., Co. Ltd.	2 Sydney St., Hamilton
Smith, Lawrence F., & Sons	78 Crockford Ave., Scarborough
Smith & Stone Limited	50 St. Clair Ave. W., Toronto
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
Telegraph Condenser Co. (Canada) Ltd.	50 Beral Rd., Toronto
Toronto Metal Spinning Ltd.	32 Eastern Ave., Toronto

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1957 - Continued

Name of firm	Location of plant
(e) Miscellaneous Electrical Products - Concluded	
Ontario - Concluded:	
Triangle Conduit & Cable (Canada) Ltd.	Scarborough
Viriden, John C., Limited	19 Curity Ave., Toronto
Vulcan Electric Products Ltd.	3180 Dundas St., W., Toronto
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.	Markham
Wilson, J.A., Lighting & Display Ltd.	280 Lakeshore Rd., Toronto 14
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.	1901 Logan Ave., Brooklands
Alberta:	
Technical Enterprises	6328 - 104th St., Edmonton
British Columbia:	
All-Brite Lighting (B.C.) Ltd.	9090 Hudson St., Vancouver
Canadian Lighting Products Co.	319 W. Pender St., Vancouver
Duck, John, & Son, Limited	1246 Hornby St., Vancouver
Freeman, W., & Son	275 Woodland Drive, Vancouver
Imperial Electrical Equipment	Annacis Industrial Estate, New Westminster
Lenkurt Electric Co. of Canada Ltd.	7018 Lougheed Hwy., N. Burnaby
Marine Electric Limited	137 W. 2nd St., North Vancouver
Rainbow Lighting Co. Ltd.	3715 Commercial Drive, Vancouver
Radiant Mfg. Co.,	557 Richards St., Vancouver
Vancouver Electric Boxes Ltd.	2060 W. Broadway, Vancouver
Vancouver Lighting Co. Ltd.	928 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
Canada Wire & Cable Co. Ltd.	Durocher St., Montreal
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
General Wire & Cable Co. Ltd.	William St., Cobourg
Hawkesbury Wire & Cable Co. Ltd.	17 Laurier, Hawkesbury
Industrial Wire & Cable Ltd.	35 Golden Ave., Toronto
Phillips Electrical Co. (1953) Ltd.	King St. W., Brockville
Pyrotanax of Canada Ltd.	Trenton
Standard Wire & Cable Ltd.	70 Wingold Ave., Toronto
Triangle Conduit & Cables (Canada) Ltd.	756 Warden Ave., Scarborough
Manitoba:	
Canada Wire & Cable Co. Ltd.	Fort Garry
Telecables & Wires Ltd.	Fennell St., Fort Garry

Directory of Firms Included in the Electrical Apparatus and Supplies Industry, 1957 - Concluded

Name of firm	Location of plant
(f) Wires and Cables - Concluded	
Saskatchewan:	
Western Wire & Cable Co. Ltd.	Weyburn
Alberta:	
Western Wire & Cable Co. Ltd.	12357-127 Ave., Edmonton
British Columbia:	
Canada Wire and Cable Co. Ltd.	1494 Powell St., Vancouver
Richmond Electric Co. Ltd.	2015 Columbia St., Vancouver

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