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Minister of Trade and Commerce.

CANADA

DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

MINING, METALLURGICAL & CHEMICAL BRANCH

THE ELECTRICAL APPARATUS & SUPPLIES INDUSTRY IN CANADA

1936

OTTAWA
1938

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Annual Industry Report — Manufactures of the Non-Ferrous Metals Group

THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY, 1936.

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 industry as the system of classification which is used for the annual Census of Industry provides for the grouping of concerns according to the chief component material of the major product made, and, under this system, some important manufacturers of electrical supplies must be allotted to other industries. For example, since clay is the chief material used in making porcelain insulators, the producers of these goods have been classified to the Clay Products Industry under the main group which embraces all manufactures of non-metallic minerals; similarly, the makers of electric washing machines have been included in the Machinery Industry of the iron and steel group. Again, some electrical supplies were made as minor products of plants which were primarily engaged in other lines of business and therefore were included in other industries. The output of electrical apparatus in these other industries, including electrical accessories for automobile and household use but excluding office and industrial machinery, amounted in value to about $13,317,544 in 1936. The items which go to make up this outside production are shown in Table 14 in as much detail as it is possible without violating the secrecy clause of the Statistics Act, which provides that the Bureau may not publish information pertaining to individual companies.

Production by firms in the Electrical Apparatus and Supplies Industry was valued at $72,288,548 in 1936 compared with $61,152,834 in 1935 and $50,234,811 in 1934. During the year under review there were 186 firms in this group, including 134 in Ontario, 29 in Quebec, 10 in British Columbia, 8 in Manitoba, 4 in Alberta, and 1 in Nova Scotia. These plants represented a fixed and working capital of $79,794,524 and afforded work to a monthly average of 17,037 people who received $19,501,882 in salaries and wages. A total of $30,484,463 was paid out for materials used in manufacturing processes and $1,187,942 was expended for fuel and electricity.

Statistics given in Tables 1 to 13 of this report cover only the concerns in the Electrical Apparatus and Supplies Industry. Table 14 shows the output of certain electrical apparatus by firms in other industries. Tables 15 to 30 give the total Canadian output (regardless of the industries in which they were produced) of motors, generators, transformers, batteries, washing machines, vacuum cleaners, lighting fixtures, wire and cable, electric refrigerators, stoves, water heaters, radio tubes, conduit, radios, ironers, oil burners, and incandescent lamps.

Imports into Canada under the heading of electrical apparatus were valued at $10,907,732 in 1936 against $8,484,271 in 1935. Exports of this class of Canadian-made goods were appraised at $3,455,812 and re-exports of imported goods at $180,292 in 1936. Details of imports and exports are shown in Tables 31 and 32.

Table 1 - PRINCIPAL STATISTICS, 1925 - 1936.

Years	No. of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
		$		$	$	$	$
1925	122	75,375,623	14,112	16,472,357	953,478	25,434,836	60,156,637
1926	132	80,323,554	15,246	18,626,500	1,065,421	30,195,935	69,767,308
1927	130	80,475,999	16,813	20,613,592	897,154	32,734,975	78,557,750
1928	137	87,952,674	18,193	22,756,209	959,237	38,784,421	93,672,452
1929	139	101,767,108	20,871	26,725,215	1,098,506	49,623,322	113,796,002
1930	149	102,979,896	20,568	26,260,004	1,082,700	43,111,629	104,577,790
1931	163	100,057,945	18,207	22,474,319	950,975	32,385,342	81,578,595
1932	169	82,458,754	14,305	16,262,368	976,453	20,414,844	53,264,918
1933	174	80,844,131	11,767	12,428,430	851,575	14,504,269	37,012,509
1934	174	77,980,366	13,657	15,220,022	986,528	21,308,006	50,234,811
1935	182	75,499,255	15,549	17,594,759	1,070,801	25,409,806	61,152,834
1936	186	79,794,524	17,037	19,501,882	1,187,942	30,484,468	72,288,548

Table 2 - PRINCIPAL STATISTICS, BY SUB-GROUPS, 1935 and 1936.

	Years	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of materials at works	Gross selling value of products at works
			$		$	$	$
Motors, generators and transformers, chiefly -							
	1935	14	29,067,924	5,225	5,787,070	5,876,472	16,849,435
	1936	13	29,978,850	5,846	6,610,410	7,216,954	19,513,644
Batteries, chiefly -							
	1935	32	7,238,971	1,095	1,328,613	2,925,693	5,499,599
	1936	26	7,382,437	1,092	1,367,646	3,423,511	7,091,456
Radios and parts, chiefly -							
	1935	24	6,956,497	2,611	2,414,681	5,353,271	10,958,421
	1936	23	8,277,402	2,817	2,656,103	5,987,668	12,628,297
Appliances, chiefly, (vacuum cleaners, refrigerators, stoves, etc.) -							
	1935	30	5,924,918	1,149	1,307,455	2,988,099	6,440,725
	1936	31	6,319,018	1,382	1,524,161	3,575,645	7,685,160
Cables and conduits, chiefly -							
	1935	13	19,516,694	3,264	4,415,261	4,980,768	11,831,748
	1936	12	20,187,638	3,394	4,564,697	6,354,867	14,559,182
Lighting fixtures, chiefly -							
	1935	17	1,273,800	458	425,745	470,446	1,217,759
	1936	20	1,038,358	443	436,536	644,583	1,479,924
Switchgear, panel boards, and wiring devices, chiefly -							
	1935	21	2,695,571	749	742,196	1,154,861	2,680,290
	1936	22	2,656,396	822	862,717	1,304,646	2,888,605
Other electrical equipment, chiefly -							
	1935	31	2,826,480	998	1,173,738	1,660,096	5,724,857
	1936	39	3,904,445	1,236	1,479,612	1,976,594	6,445,280
TOTAL	1935	182	75,499,255	15,549	17,594,759	25,409,806	61,152,834
	1936	186	79,794,524	17,037	19,501,882	30,484,468	72,288,548

Table 3 - PRINCIPAL STATISTICS, BY PROVINCES, 1935 and 1936.

Provinces	No. of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
		$		$	$	$	$
1935							
Nova Scotia	1)	19,444,918	3,906	4,807,981	276,716	5,468,628	13,047,816
Quebec	24)						
Ontario	134	55,448,550	11,454	12,595,146	776,576	19,681,797	47,503,325
Manitoba	8	362,574	103	105,503	10,048	164,921	378,172
Alberta	4	67,055	16	18,209	2,113	17,065	44,111
British Columbia	11	176,158	70	67,920	5,348	77,395	179,410
CANADA	182	75,499,255	15,549	17,594,759	1,070,801	25,409,306	61,152,834
1936							
Nova Scotia	1)	20,764,054	4,201	5,131,380	295,030	6,639,889	15,702,574
Quebec	29)						
Ontario	134	58,400,322	12,629	14,132,231	873,637	23,501,825	55,800,685
Manitoba	8	343,489	111	119,971	11,891	209,190	462,642
Alberta	4	97,013	21	21,917	2,274	21,795	58,796
British Columbia	10	189,641	75	95,883	5,110	111,769	263,851
CANADA	186	79,794,524	17,037	19,501,882	1,187,942	30,484,468	72,288,548

Table 4 - CAPITAL EMPLOYED, BY PROVINCES, 1935 and 1936.

Provinces	Present value of lands, buildings, fixtures, machinery and tools	Inventory value of materials and finished products on hand and stocks in process	Operating capital (cash, trading and operating accounts and bills receivable)	TOTAL CAPITAL EMPLOYED
	$	$	$	$
1935				
Nova Scotia and Quebec .	11,391,353	4,416,980	3,636,585	19,444,918
Ontario	24,835,734	12,319,630	18,293,186	55,448,550
Manitoba	180,696	104,090	77,788	362,574
Alberta	31,996	24,581	10,478	67,055
British Columbia	94,609	52,650	28,899	176,158
CANADA	36,534,388	16,917,931	22,046,936	75,499,255
1936				
Nova Scotia and Quebec..	11,882,828	4,506,322	4,374,904	20,764,054
Ontario	24,525,076	15,663,620	18,211,626	58,400,322
Manitoba	165,652	104,448	73,389	343,489
Alberta	58,922	26,637	11,459	97,018
British Columbia	88,511	54,712	46,418	189,641
CANADA	36,720,989	20,355,739	22,717,796	79,794,524

Table 5 - SIZE OF ESTABLISHMENTS ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES and CAPITAL EMPLOYED, 1936.

	Number of plants	Capital employed	Number of employees	Gross selling value of products at works
		$		$
(a) PRODUCTION				
Under $5,000	16	113,518	37	36,300
$5,000 to $10,000	16	144,547	55	120,008
$10,001 to $25,000	23	625,440	182	382,872
$25,001 to $50,000	20	653,472	252	724,613
$50,001 to $100,000	32	1,853,964	672	2,203,926
$100,001 to $250,000	23	3,520,596	707	3,636,331
$250,001 to $500,000	24	7,417,261	1,371	8,480,532
$500,001 to $1,000,000	18	11,295,612	2,465	12,592,131
Over $1,000,000	14	54,170,114	10,816	44,111,935
TOTAL	186	79,794,524	17,037	72,288,548
(b) EMPLOYEES				
1 or 2	18	114,195	27	70,081
3 to 10	52	1,384,141	333	1,407,052
11 to 20	30	1,677,394	474	2,041,365
21 to 50	35	5,048,199	1,177	6,020,758
51 to 100	21	7,633,845	1,558	9,637,117
101 to 500	25	22,714,661	5,269	25,210,632
Over 500	5	41,222,089	8,199	27,901,543
TOTAL	186	79,794,524	17,037	72,288,548
(c) CAPITAL				
Under $25,000	52	580,249	276	758,995
$25,000 to $100,000	59	2,629,017	955	3,439,849
$100,001 to $500,000	47	11,145,440	3,506	17,055,855
$500,001 to $1,000,000	15	10,060,452	1,881	10,548,850
Over $1,000,000	13	55,379,366	10,419	40,484,999
TOTAL	186	79,794,524	17,037	72,288,548

Table 6 - EMPLOYEES, SALARIES and WAGES, BY PROVINCES, 1935 and 1936.

Provinces	Average number of employees					Salaries	Wages	TOTAL SALARIES and WAGES
	On salaries		On wages					
	Male	Female	Male	Female	TOTAL			
						$	$	$
1935								
Nova Scotia and Quebec	935	319	1,963	689	3,906	2,374,756	2,433,225	4,807,981
Ontario	1,941	752	6,477	2,284	11,454	4,669,864	7,925,282	12,595,146
Manitoba	26	6	70	1	103	61,474	44,029	105,503
Alberta	5	1	10	...	16	7,147	11,062	18,209
British Columbia	20	4	45	1	70	31,000	36,920	67,920
CANADA	2,927	1,082	8,565	2,975	15,549	7,144,241	10,450,518	17,594,759
1936								
Nova Scotia and Quebec	967	345	2,110	779	4,201	2,398,051	2,733,829	5,131,880
Ontario	2,186	814	7,130	2,499	12,629	5,283,867	8,848,364	14,132,231
Manitoba	28	7	74	2	111	70,267	49,704	119,971
Alberta	7	1	13	...	21	9,397	12,520	21,917
British Columbia	17	4	54	...	75	42,372	53,511	95,883
CANADA	5,205	1,171	9,381	3,280	17,037	7,803,954	11,697,928	19,501,882

Table 7 - WAGE-EARNERS, BY MONTHS, 1935 and 1936. (On 15th of each month)

Months	1935 Male	1935 Female	1935 TOTAL	1936 Male	1936 Female	1936 TOTAL
January	7,808	2,532	10,340	8,642	2,813	11,455
February	8,063	2,505	10,568	8,611	2,794	11,405
March	7,928	2,442	10,370	8,730	2,757	11,487
April	8,021	2,318	10,339	8,755	2,738	11,493
May	8,002	2,349	10,351	9,126	3,036	12,162
June	8,163	2,583	10,746	9,489	3,370	12,859
July	8,473	2,788	11,261	9,661	3,554	13,215
August	8,843	3,329	12,172	9,765	3,604	13,367
September	9,204	3,793	12,997	10,109	3,734	13,843
October	9,586	3,977	13,563	10,152	3,851	14,003
November	9,636	3,860	13,496	10,049	3,682	13,731
December	9,043	3,247	12,290	9,878	3,411	13,289
AVERAGE	8,565	2,975	11,540	9,381	3,280	12,661

Table 8 - WAGE-EARNERS IN MONTHS OF HIGHEST EMPLOYMENT ACCORDING TO REGULAR HOURS WORKED PER WEEK, (Overtime not included), 1936.

NOTE - Since the month of highest employment was not the same for each company, the data given in this table are not for any particular month and the total is greater than the highest monthly figure shown in the previous table.

Regular hours worked per week	Number of wage-earners	Regular hours worked per week	Number of wage-earners
40 hours or less	2,128	51 - 53 hours	119
41 - 43 hours	89	54 hours	82
44 hours	286	55 hours	682
45 - 47 hours	3,844	56 - 59 hours	178
48 hours	4,188	60 hours or over	114
49 - 50 hours	1,136	Total	15,421

Table 9 - FUEL AND ELECTRICITY USED, 1935 and 1936.

Kinds	Unit of measure	1935 Quantity	1935 Cost at works $	1936 Quantity	1936 Cost at works $
Bituminous coal - Canadian	ton	20,927	115,816	23,692	133,260
Imported	ton	40,107	222,228	43,804	250,729
Anthracite coal	ton	2,943	23,562	3,974	28,002
Coke	ton	1,046	10,913	1,316	13,801
Gasoline	Imp.gal.	21,912	5,361	11,516	2,265
Kerosene	Imp.gal.	2,994	527	5,909	988
Fuel oil	Imp.gal.	1,103,498	82,735	1,319,548	90,676
Wood	cord	128	629	135	681
Gas - Manufactured	M cu.ft.	106,474	83,440	123,263	84,972
Natural	M cu.ft.	12,720	8,087	23,546	14,486
Other fuel	$	...	446	...	468
Electricity purchased	K.W.H.	51,141,266	517,057	56,566,091	567,614
TOTAL	$	...	1,070,801	...	1,187,942
Electricity generated for own use	K.W.H.	10,873,000	...	9,772,453	...

Table 10 - POWER EQUIPMENT, 1935 and 1936.

Kinds	1935 Number of units	1935 Total rated horse power	1936 Number of units	1936 Total rated horse power
Steam engines and turbines	15	7,425	22	7,278
Gasoline, gas and oil engines	2	347	2	272
Hydraulic turbines or water wheels	7	4,400	7	4,400
Total Primary Equipment	24	12,072	31	11,951
Electric motors run by purchased power	8,697	96,260	9,116	60,160
TOTAL	8,721	108,332	9,147	72,111
Electric motors run by power generated by above primary units	843	4,978	986	5,134
Total Electric Motors	9,540	101,238	10,102	65,294
Boilers	96	12,370	106	13,442

Table 11 - POWER EQUIPMENT, 1936, SHOWING 'ORDINARILY IN USE' SEPARATELY FROM 'IN RESERVE OR IDLE'.

Kinds	Ordinarily in Use: Number of units	Ordinarily in Use: Total rated horse power	In Reserve or Idle: Number of units	In Reserve or Idle: Total rated horse power
Steam engines and turbines	20	3,279	2	4,000
Gasoline, gas and oil engines	...	...	2	272
Hydraulic turbines or water wheels	7	4,400	...	...
Total Primary Equipment	27	7,679	4	4,272
Electric motors run by purchased power	8,760	58,381	356	1,779
TOTAL	8,787	66,060	360	6,051
Electric motors run by power generated by above primary units	986	5,134	...	...
Total Electric Motors	9,746	63,515	356	1,779
Boilers	92	11,082	14	2,360

Table 12 - MATERIALS USED IN MANUFACTURING, 1935 and 1936.

Materials	Unit of measure	1935 Quantity	1935 Cost at works $	1936 Quantity	1936 Cost at works $
Aluminium -					
Castings	lb.	562,545	289,741	459,103	243,350
Ingot and scrap	lb.	38,362	7,485	45,624	10,063
Punchings and spinnings	lb.	50,960	29,719	42,306	27,218
Rods and bars	lb.	318,424	42,821	508,417	91,758
Sheets	lb.	146,809	45,722	359,061	97,037
Other	lb.	79,594	26,607	96,768	36,055
Ammonium chloride (sal ammoniac)	lb.	968,571	30,584	1,046,121	33,078
Antimony	lb.	130,380	15,267	156,397	19,021
Argon	cu.ft.	114,958	51,685	121,955	53,006
Asbestos -					
Board	lb.	122,111	20,175	147,311	21,651
Yarn	lb.	61,018	18,040	87,693	26,626
Tape	lb.	8,481	5,738	14,922	10,829
Bakelite in all forms	$	...	148,439	...	193,340
Battery boxes	no.	630,262	329,031	685,206	349,404
Brass and bronze -					
Castings	lb.	903,107	243,570	1,082,654	505,386
Rods and bars	lb.	884,679	134,553	1,288,116	196,103
Tubing and pipe	lb.	108,550	20,714	101,868	27,409
Lamp bases	$	...	152,753	...	249,580
Sheets	lb.	832,049	166,233	745,194	101,201
Screws	$	...	40,935	...	60,746
Other	$	...	41,062	...	35,503

Table 12 - MATERIALS USED IN MANUFACTURING, 1935 and 1936. (continued)

Materials	Unit of measure	1935 Quantity	1935 Cost at works	1936 Quantity	1936 Cost at works
			$		$
Carbon brushes, brush stock and plates	$	...	93,316	...	86,331
Carbon electrodes	$	...	58,952	...	71,688
Copper -					
Castings	lb.	62,212	15,706	99,137	24,203
Bars and rods	lb.	22,374,396	1,919,008	25,702,675	2,562,314
Scrap	lb.	62,743	10,074	51,964	7,732
Tubing and pipe	lb.	454,131	53,647	655,102	138,864
Sheets and plates	lb.	235,944	44,070	304,733	62,417
Wire, bare	lb.	3,544,916	456,541	3,956,581	558,147
Wire, enamelled	$	...	285,760	...	369,796
Wire, other insulated	$	...	422,431	...	637,391
Cotton and linen yarns	$	...	511,954	...	572,996
Cotton sheets, tapes and webbing	$	...	86,366	...	88,051
Cork sheet, etc.	$	...	9,636	...	17,846
Fibre rod, sheet, tubing, etc.	$	...	87,748	...	107,654
Frit for enamelling	lb.	293,494	24,707	462,022	38,384
Glass bulbs, tubing and cane	$	...	576,403	...	585,611
Insulating varnishes, japans, lacquers, etc.	$	...	124,355	...	120,668
Insulating waxes	$	...	82,907	...	106,786
Insulators, porcelain	$	...	255,362	...	317,804
Iron and steel -					
Pig iron	long ton	1,921	40,600	1,496	32,074
Iron castings	short ton	3,744	473,516	4,736	563,806
Steel castings	short ton	443	78,193	217	46,551
Steel forgings	short ton	587	69,279	396	44,578
Steel bars	short ton	1,421	120,613	1,362	124,000
Steel rods	short ton	945	135,609	1,205	156,534
Iron and steel pipe	short ton	4,285	434,253	5,488	548,333
Steel sheets	short ton	12,555	1,028,335	14,351	1,311,520
Steel wire	short ton	1,009	111,867	1,382	153,054
Structural steel	short ton	1,628	99,377	2,353	123,814
Steel strip	short ton	1,478	158,153	2,104	227,540
Stampings	$	...	...	...	182,378
Bolts, nuts and screws	$	...	154,793	...	214,369
Other iron and steel	$	...	168,972	...	136,349
Lead -					
Pig	lb.	17,329,633	614,810	18,753,513	780,773
Scrap	lb.	106,732	2,364	160,456	3,313
Other	lb.	766,558	33,041	821,732	43,146
Lead oxide (litharge and red lead)	lb.	3,781,853	196,480	3,937,252	229,168
Lumber	M bd.ft.	6,012	161,477	3,893	174,267
Manganese dioxide	lb.	3,434,351	60,333	3,975,978	69,834
Mica	lb.	73,621	58,016	109,003	77,336
Mineral wool	lb.	256,411	6,102	311,962	18,533
Nickel-silver tubing	ft.	59,958	8,434	26,372	3,877
Nitrogen	cu.ft.	434,705	5,868	679,760	8,034
Oil -					
Transformer	Imp. gal.	246,727	60,002	352,858	84,979
Switch	Imp. gal.	59,297	13,665	36,969	8,862
Paint	$	...	61,731	...	146,249
Paper	$	...	183,262	...	223,777
Pressboard	$	...	67,660	...	73,815
Radio cabinets	no.	131,279	1,087,346	177,555	1,232,180
Radio parts for assembling	$	...	2,669,705	...	2,872,370
Radio tubes purchased and used to equip radio receiving sets manufactured	no.	...	781,719	1,292,407	919,106
Resistance wire	$	...	91,203	...	85,563
Rubber, reclaimed or compounded	lb.	749,468	56,850	826,771	64,052
Rubber, other	lb.	533,803	101,913	742,003	128,641
Silk, artificial	lb.	20,771	28,108	22,902	28,400
Steel tanks	no.	1,975	51,639	4,155	55,401
Sulphuric acid, 66° Be	lb.	3,540,443	58,714	3,677,518	60,591

Table 12 - MATERIALS USED IN MANUFACTURING, 1935 and 1936. (concluded)

Materials	Unit of measure	1935 Quantity	1935 Cost at works $	1936 Quantity	1936 Cost at works $
Talc	lb.	332,908	4,297	382,493	4,946
Thermometers and thermostats	no.	13,408	40,558	20,763	55,964
Tungsten wire	$	...	52,192	...	47,856
Wood battery separators	$	...	154,273	...	157,828
Zinc -					
Ingot and bar	lb.	636,199	38,987	723,050	45,289
Sheets	lb.	2,193,970	147,673	2,452,853	177,833
Zinc chloride	lb.	348,756	18,695	356,105	20,429
Electric motors purchased	$	...	...	...	335,697
All other materials	$	...	7,774,730	...	8,825,361
Containers and packing material	$	...	663,937	...	770,371
TOTAL	$	...	25,409,806	...	30,484,468

Table 13 - PRODUCTS MADE IN THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY, 1935 and 1936.

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. (See Directory). 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 asterisk(x) indicates that the article was made also in other industries. For the total Canadian output of certain major items, see Tables 15 to 30.

Products	Unit of measure	1935 Quantity	1935 Gross selling value at works $	1936 Quantity	1936 Gross selling value at works $
Appliances, motor driven, including vacuum cleaners(x), fans, washing machines(x), electric clocks(x), ironing machines(x), blowers(x), oil burners(x), floor polishers(x), shavers, clippers, etc. (See Tables 18, 19, 21 and 29)	$	...	2,470,996	...	2,530,124
Batteries and parts (See Table 22)	$	...	5,370,086	...	5,928,956
Conduit and fittings(x) (See Table 16)	$	...	853,731	...	1,044,708
Converter equipment -					
Motor generator sets, A.C. to D.C.	no.	69	106,123	104	112,344
Motor generator sets, A.C. to A.C.	no.	8	467,714	1	410,606
Other converter equipment and parts	$	...	28,478	...	70,299
Cooking and heating apparatus, electric -					
Stoves, grills, etc.(x) (See Table 25)	$	...	841,902	...	934,103
Heating elements (sold separately)	$	...	...	...	33,049
Heaters, air and space(x)	no.	13,568	37,029	11,494	35,514
Heaters, water, domestic(x) (See Table 27)	No.	18,612	97,372	18,495	102,048
Toasters -					
Commercial	no.)			49,707	49,895
Sandwich	no.)	123,207	208,671	25,605	51,470
All other	no.)			65,494	129,449
Percolators	no.	8,131	40,738	8,703	65,953
Glass coffee makers	no.	...	...	3,369	14,493
Irons, flat	no.	173,287	279,355	168,114	270,586
Waffle irons	no.	...	...	2,149	7,470
All other cooking and heating apparatus	$	...	137,246	...	103,352
Cutouts and fuses -					
Primary cutouts, all types	$	...	175,384	...	182,358
Cutouts for cartridge and plug fuses	no.	68,128	6,680	...	39,381
Cartridge and other fuses and renewals	$	...	264,778	...	330,621
Generators, A.C. and D.C. and parts (See Table 17).	$	...	1,485,712	...	907,529

Table 13 - PRODUCTS MADE IN THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY, 1935 and 1936 (concluded)

Products	Unit of measure	1935 Quantity	1935 Gross selling value at works	1936 Quantity	1936 Gross selling value at works
			$		$
Industrial electrical heating equipment -					
Furnaces, resistance, induction and arc types and industrial ovens	no.	66	103,415	57	94,799
Other industrial heating equipment	$	...	46,575	...	127,851
Instruments and meters (except ammeters for autos) -					
Demand meters	no.	6,080	87,810	3,999	92,784
Watthour meters	no.	73,808	665,494	106,681	877,133
Electrical indicating and graphic instruments	no.	759	46,769	956	46,048
Other electrical instruments and meters	no.	...	31,348	1,124	42,397
Meter and instrument parts	$	...	99,039	...	123,222
Lamps, incandescent -					
Standard size	no.	23,026,982	4,155,803	24,364,181	4,117,871
Miniature size	no.	9,832,118	633,769	11,246,707	662,628
Lighting fixtures(x) (See Table 23)	$	...	1,300,860	...	1,754,825
Line material (excluding wire and insulators)	$	...	266,855	...	289,019
Motors, A.C. and D.C. and parts(x) (See Table 17)	$	...	3,542,997	...	4,383,458
Panel boards and cabinets	$	...	226,278	...	284,007
Radios and parts(x) (except tubes and transformers) (See Table 24)	$	...	10,956,010	...	11,909,260
Rectifiers, for storage battery charging, and parts	no.	160	6,645	...	34,288
Refrigerators, electric(x) (See Table 26)	$	...	3,207,795	...	5,463,471
Switch gear and protective equipment (except telephone switchboards) -					
Switchboard panels and equipment	$	...	901,456	...	1,001,344
Lightning arresters	$	...	144,824	...	177,390
Oil circuit breakers	$	...	240,754	...	404,740
Air circuit breakers	$	...	108,802	...	127,365
Disconnecting switches	$	...	185,496	...	134,763
Other equipment including parts and supplies	$	...	136,526	...	147,388
Telephone material (telephones, switchboards, etc.)	$	...	2,575,001	...	2,979,534
Transformers and parts (See Table 15)	$	...	2,152,618	...	2,893,156
Therapeutic lamps and other electro-therapeutic apparatus	$	...	13,578	...	30,187
Vacuum tubes -					
Radio receiving tubes (see Table 29)	no.	2,185,529	1,181,239	2,952,415	1,545,823
Other vacuum tubes including X-ray	no.	14,075	93,878	20,066	84,457
Welding apparatus	$	...	217,478	...	308,245
Wiring devices (except auto starting switches and time switches) -					
Sockets, brass shell	$	...	205,897	...	164,057
Sockets, porcelain	$	...	90,028	...	110,263
Switches, surface and flush types	$	...	177,633	...	191,038
Switches, enclosed safety type	$	...	303,663	...	350,901
Switches, canopy	$	...	31,121	...	34,580
Switches, all other	$	...	167,265	...	171,839
Receptacles, single and duplex (flush)	$	...	80,760	...	105,670
Cord sets	$	...	104,888	...	168,111
Other wiring devices	$	...	798,757	...	1,005,329
Wires(x) and cables, except aluminium (See Table 20)	$	...	8,082,889	...	10,127,986
Receipts from custom and repair work	$	...	586,902	...	685,331
Any electrical apparatus not elsewhere reported, including articles reported by only 1 or 2 firms	$	...	2,195,718	...	2,479,250
All other products	$	...	2,379,319	...	3,199,852
TOTAL	$	...	61,152,834 61,456,493	...	72,288,548 7

This figure not shown in original Total

Table 14 - PRODUCTION OF CERTAIN ELECTRICAL APPARATUS BY FIRMS CLASSIFIED TO INDUSTRIES OTHER THAN THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY, 1934 - 1936.

NOTE - Data given in this table represent the output of electrical appliances or equipment reported as minor products by concerns which have been classified to industries other than the Electrical Apparatus and Supplies Industry. (See supplement to Directory). These figures should be added to those given in Table 11 to arrive at the total Canadian output for these items. (See Tables 15 to 30).

Products	Gross selling value at works		
	1934	1935	1936
	$	$	$
Radio sets and parts	2,077,530	...	65,798
Washing machines, electric	3,412,043	3,464,879	4,164,992
Stoves, rangettes, hot plates, etc., electric	1,021,391	1,241,088	1,488,391
Electrodes, furnace	1,575,233	1,739,435	2,318,488
Ignition coils, automobile	...	...	249,437
Generators and starters, automobile	1,400,056	1,829,617	1,568,192
Oil burners	509,478	266,353	288,192
Signs, electric	749,530	906,858	1,134,411
Lighting fixtures	80,334	119,864	95,370
Blowers for domestic furnaces	72,578	58,287	58,321
Water tank heaters, electric	12,053	16,081	17,434
Air and space heaters	2,000	7,057	4,000
Spark plugs, electric ironers, electric motors, vacuum cleaners, copper wire, electric refrigerators, auto coils, porcelain insulators, etc.	2,674,928	3,622,734	4,559,541
TOTAL	13,587,204	13,317,544	16,012,567

Table 15 - PRODUCTION OF TRANSFORMERS, BY TYPES, 1935 and 1936.

Types	1935			1936		
	Number	Total rating	Selling value at works	Number	Total rating	Selling value at works
		K.V.A.	$		K.V.A.	$
Distribution transformers, 200 k.v.a. and under, and 15,000 volts and below	6,446	87,585	783,921	8,357	114,493	1,115,234
Power transformers, 200 k.v.a. to 7,500 k.v.a. inclusive, over 15,000 volts to and including 132,000 volts	142	127,187	505,639	242	207,052	924,825
Power transformers, over 7,500 k.v.a. and over 132,000 volts	12	152,000	288,697	8	198,000	269,724
Current and potential transformers	2,838	...	102,775	4,316	...	114,411
Constant current transformers	36	294	5,344	73	550	21,778
Series lamp transformers	427	...	10,895	539	...	14,528
Luminous tube and ignition transformers	10,317	...	76,170	12,199	...	89,080
Radio transformers	...	...	123,100	...	...	187,355
All other transformers	...	...	44,971	...	...	60,255
Parts and supplies	...	...	211,106	...	...	95,970
TOTAL	...	...	2,152,618	...	...	2,893,156

Table 16 - PRODUCTION OF ELECTRICAL CONDUIT IN CANADA, 1935 and 1936.

Items		1935		1936	
		Quantity	Selling value at works	Quantity	Selling value at works
			$		$
Rigid iron conduit	lb.	8,628,515	657,369	10,251,308	778,540
Flexible conduit (steel and non-metallic)	ft.	4,430,314	59,052	4,951,922	79,978
Conduit fittings	$	...	137,310	...	186,190
TOTAL	$	...	853,731	...	1,044,708

Table 17 - PRODUCTION OF ELECTRIC GENERATORS AND ELECTRIC MOTORS IN CANADA, 1935 and 1936.
(from all industries)

	1935			1936		
	Number	Total rating	Selling value at works	Number	Total rating	Selling value at works
			$			$
Generators (excluding double current generators)						
Alternating current	52	309,043 K.V.A.	1,397,138	37	70,041 K.V.A.	569,147
Direct current and including exciters	77	...	43,011	49	2,028 K.W.	58,667
Steam turbo-generator sets	...	...	45,563	206	103 K.V.A.	279,715
Total Generators	...	...	1,485,712	...	...	907,529
Motors (excluding starting motors) -						
1/3 h.p. and under	151,886	37,952 H.P.	1,371,388	178,549	43,217 H.P.	1,477,065
Over 1/3 to 5 h.p. - single phase - A.C.	6,794	9,425 H.P.	358,707	8,140	9,821 H.P.	377,647
Over 1/3 to 5 h.p. - induction	5,651	11,798 H.P.	493,405	6,147	13,166 H.P.	441,742
Over 1/3 to 5 h.p. - D.C.	67	146 H.P.	9,814	185	164 H.P.	6,866
Over 5 to 200 h.p. - induction	1,918	46,857 H.P.	509,821	2,602	65,584 H.P.	815,683
Over 5 to 200 h.p. - D.C.	45	1,625 H.P.	47,488	21	536 H.P.	27,600
201 h.p. and over - induction	23	11,125 H.P.	66,705	32	12,825 H.P.	112,796
201 h.p. and over - D.C.	3	1,750 H.P.	19,677	1	1,350 H.P.	28,101
Railway and vehicle motors, A.C. and D.C.	...	...	...	96	28,165 H.P.	242,533
Synchronous condensers and motors.	43	14,370 K.V.A.	74,522	...	...	...
Starting and control equipment	...	...	648,894	...	...	842,119
Accessories and parts for motors	...	...	133,112	...	...	244,185
Total Motors and Parts	...	...	3,733,533	...	...	4,616,337

Table 18 - TOTAL PRODUCTION OF DOMESTIC WASHING MACHINES IN CANADA, 1927 - 1936.
(from all industries)

Years	HAND		ELECTRIC		OTHER POWER		TOTAL	
	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works	Number	Selling value at works
		$		$		$		$
1927	21,841	356,409	38,409	4,606,631	1,986	133,452	62,136	5,096,492
1928	22,118	374,491	60,871	7,724,740	3,408	212,028	86,397	8,311,259
1929	25,586	487,516	70,231	9,109,794	4,377	479,135	100,224	10,076,445
1930	16,038	339,917	67,577	8,807,068	2,443	244,726	86,058	9,391,711
1931	16,189	331,732	59,443	6,490,378	1,061	96,348	76,693	6,918,458
1932	10,416	122,695	47,440	3,158,122	630	36,520	58,486	3,317,337
1933	7,852	84,941	50,597	2,723,847	482	35,243	58,931	2,844,031
1934	9,325	116,998	73,657	3,607,088	1,097	96,912	84,079	3,820,998
1935	7,445	79,033	75,121	3,600,904	2,110	169,256	84,676	3,849,193
1936	11,557	142,474	89,334	4,331,912	1,747	126,244	102,638	5,600,630

Table 19 - PRODUCTION OF DOMESTIC ELECTRIC IRONERS(x) IN CANADA, 1935 and 1936.
(from all industries)

Years	Number	Selling value at works
		$
1935	9,028	364,626
1936 - Operated by own motor	5,435	309,309
Attached to washing machines	3,391	62,769
TOTAL - 1936	8,826	372,078

(x) Includes a few gas and steam heated ironers.

Table 20 - TOTAL PRODUCTION IN CANADA OF COPPER WIRE AND CABLE, 1934 - 1936.
(from all industries)

Kinds	Selling value at works		
	1934	1935	1936
	$	$	$
Copper wire, bare	1,692,376	1,856,944	2,559,224
Weatherproof	939,614	744,901	1,042,714
Rubber insulated, braided	1,416,529	1,866,450	2,475,155
Cambric insulated, braided	90,080	69,937	70,547
Rubber insulated, leaded	299,891	212,579	188,139
Cambric insulated, leaded	172,718	160,231	243,150
Paper insulated, leaded	185,365	104,787	157,536
Telephone cable of all kinds	423,922	569,045	765,379
Armoured cable	496,277	515,142	647,011
Cord, heater, lamp, fixture, all rubber, etc.	550,037	548,621	646,692
All other copper wire and cable	1,269,404	1,433,652	1,359,729
Total Copper Wire and Cable	7,536,713	8,082,889	10,155,326

Table 21 - PRODUCTION OF ELECTRIC VACUUM CLEANERS AND PARTS IN CANADA, 1933 - 1936.
(from all industries)

		1933	1934	1935	1936
Electric floor models	No.	22,802	32,163	38,728	40,621
	$	746,577	1,174,044	1,510,401	1,473,656
Electric hand models	No.	28,151	15,663	11,723	7,058
	$	272,773	163,858	180,683	109,214
Attachments and parts for above.	$	276,587	212,006	657,339	347,276
TOTAL	$	1,295,937	1,549,908	2,348,423	1,930,146

Table 22 - PRODUCTION OF ELECTRIC BATTERIES IN CANADA, BY TYPES, 1935 and 1936.

Kinds	1935		1936	
	Number	Selling value at works	Number	Selling value at works
		$		$
STORAGE -				
For internal combustion engine starting and ignition	561,710	2,378,414	608,025	2,542,313
For farm lighting plants (cells)	14,728	78,311	17,743	93,328
For railway service (cells)	3,853	82,903	6,260	145,573
For telephone switchboards	1,599	30,585	1,160	35,567
For motorcycle starting	2,995	10,604	2,151	8,062
For all other purposes	...	303,879	...	450,526
Total Storage	...	2,884,795	...	3,275,369
DRY CELL -				
6 inch cells (cells)	1,472,858	402,303	1,537,289	418,877
B and C for radio (cells)	19,800,253	1,136,764	22,517,403	1,323,406
Flashlight (cells)	10,044,403	598,443	9,386,366	560,893
Other dry cells (cells)	43,170	2,715	78,252	5,432
Total Dry Cells	...	2,140,225	...	2,308,608
Parts and supplies including all other dry cells and primary wet cells	...	345,066	...	344,979
TOTAL	...	5,370,086	...	5,928,956

Table 23 - TOTAL PRODUCTION IN CANADA OF ELECTRIC LIGHTING FIXTURES, 1935 and 1936.
(from all industries)

	Selling value at works	
	1935	1936
	$	$
Interior lighting fixtures, residential	888,829	909,257
Interior lighting fixtures, metal reflectors	143,888	120,673
All other interior lighting fixtures	185,547	182,625
Exterior lighting standards	4,002	27,085
Exterior lighting fixtures	83,460	227,114
Exterior lighting control devices	2,964	15,929
Searchlights and floodlights	8,447	17,606
All other lighting equipment	103,587	349,926
TOTAL LIGHTING FIXTURES	1,420,724	1,850,195

Table 24 - PRODUCTION OF COMPLETE RADIO RECEIVING SETS IN CANADA, 1925 - 1936.

Years	Number of sets	Selling value at works(x)	Years	Number of sets	Selling value at works(x)
		$			$
1925	48,531	2,278,292	1931	291,711	18,555,710
1926	42,430	2,253,098	1932	121,468	6,808,877
1927	47,500	3,748,622	1933	112,273	4,401,313
1928	81,032	7,486,127	1934	188,710	8,196,248
1929	150,050	15,604,145	1935	191,293	9,493,399
1930	170,082	19,196,936	1936	253,896	11,388,173

(x) Not list prices.

Table 25 - NUMBER AND FACTORY SELLING VALUE OF STOVES MADE IN CANADA, 1933 - 1936.

Kinds		1933	1934	1935	1936
Coal and wood cooking stoves and ranges, all styles	No.	59,068	74,291	83,201	96,250
	$	2,034,434	2,904,462	3,232,965	4,045,067
Coal and wood heating stoves (including all heaters, circulators, Quebec, box, oak, Franklyn, globe or laundry) (x)	No.	29,599	52,056	58,489	109,119
	$	456,495	716,318	815,115	1,076,990
Combination for gas and coal	No.	3,537	5,796	7,049	9,246
	$	237,165	404,118	466,249	566,717
Combination for gas and electric	No.	...	7	6	550
	$	...	560	300	34,600
Combination for coal and electric	No.	887	1,055	1,541	3,038
	$	80,736	104,992	133,327	277,220
Gas cooking stoves and ranges not combinations including all styles with ovens	No.	16,490	20,596	23,939	26,727
	$	557,024	783,634	858,210	1,017,146
Electric cooking stoves and ranges over 35 amperes, all styles with ovens	No.	15,445	18,575	24,094	29,442
	$	1,115,144	1,358,050	1,782,527	2,097,256
Electric rangettes including cord attachment and oven as one unit	No.	1,663	5,561	6,312	11,195
	$	35,863	88,357	85,038	194,701
Electric cooking plates and grills	No.	29,201	61,064	94,528	56,913
	$	80,265	130,901	181,217	130,537
Gas cooking plates	No.	4,771	3,987	3,768	4,894
	$	37,813	30,521	10,867	13,642
Gas heaters	No.		Not recorded		2,194
	$				27,910
Oil and gasoline stoves	No.		Not recorded		14,550
	$				112,476
TOTAL	$	4,634,939	6,521,913	7,565,815	9,594,262

(x) Includes 39,735 sheet iron stoves and airtight heaters worth $99,126 in 1935; these items not included in earlier years.

Table 26 - PRODUCTION OF ELECTRIC REFRIGERATORS IN CANADA, 1929 - 1936.

	Number	Selling value at works
		$
1929	4,687	1,608,304
1930	6,302	1,607,784
1931 - Individual domestic type	9,879	1,708,327
All other types	4,314	1,088,590
Total for 1931	14,193	2,796,917
1932 - Individual domestic type	19,454	2,218,798
All other types	...	914,455
Total for 1932	...	3,133,253
1933 - Individual domestic type	15,059	1,896,033
Individual commercial type for use in stores, etc.	574	107,855
All other types (compressors only, ice cream cabinets, etc.	1,016	197,833
Total for 1933	16,649	2,201,721
1934 - Individual domestic type	27,897	3,502,089
Individual commercial type	1,119	284,654
All other types (compressors only, ice cream cabinets, etc.)	1,241	146,279
Total for 1934	30,257	3,933,022
1935 - Individual domestic type, complete, all sizes	22,452	2,835,079
Commercial (ice cream cabinets, room coolers, etc.) complete and remote	2,271	359,752
Condensing units only	2,344	249,720
Total for 1935	27,067	3,444,551
1936 - Individual domestic type, complete, all sizes	40,688	5,054,553
Individual commercial type (ice cream cabinets, room coolers, etc.) complete and remote	3,975	687,028
Condensing units only	1,662	193,381
Total for 1936	46,325	5,934,962

Table 27 - PRODUCTION OF DOMESTIC WATER HEATERS IN CANADA, 1935 and 1936. (From all industries)

Items	1935 Number	1935 Selling value at works	1936 Number	1936 Selling value at works
		$		$
Electric - Circulating type	4,103	28,646	3,236	40,601
Immersion type	14,899	49,265	15,521	51,695
Storage tank type	1,807	35,542	2,465	27,186
Total Electric	20,809	113,453	21,222	119,482
Gas - Automatic	946	62,185	2,271	90,426
Not automatic	12,473	74,103	12,293	68,332
Total Gas	13,419	136,288	14,564	158,758
Coal, wood or oil, cast iron	Not available		3,978	40,120
Indirect water heaters and converters	Not available		155	6,012
GRAND TOTAL	34,228	249,741	39,919	324,372

Table 28 - PRODUCTION IN CANADA AND IMPORTS OF RADIO RECEIVING TUBES, 1929 - 1936.

Years	PRODUCTION Number	PRODUCTION Selling value at works	IMPORTS Number	IMPORTS Selling value at works
		$		$
1929	2,924,270	3,100,148	...	524,872
1930	3,116,096	3,181,276	...	327,728
1931	3,297,007	2,298,098	...	113,760
1932	2,747,456	1,610,850	55,762	60,157
1933	1,731,569	1,023,364	119,367	84,027
1934	2,367,674	1,389,815	266,283	155,271
1935	2,183,529	1,181,239	460,749	258,149
1936	2,952,415	1,545,823	565,873	289,659

Table 29 - PRODUCTION OF OIL BURNERS IN CANADA, 1934 - 1936. (From all industries)

Types		1934	1935	1936
Oil burners - Atmospheric gravity feed	No.	6,497	4,436	5,218
	$	147,481	100,773	73,303
Power, for domestic and commercial uses	No.	2,148	1,165	1,136
	$	363,521	165,490	208,839

Table 30 - PRODUCTION OF INCANDESCENT ELECTRIC LAMPS IN CANADA, 1931 - 1936.

Years	STANDARD SIZE		MINIATURE SIZE	
	Number	Selling value at works	Number	Selling value at works
		$		$
1931	18,205,931	4,044,243	7,255,194	655,015
1932	17,102,308	3,597,173	6,244,103	526,835
1933	15,173,002	3,230,911	5,763,149	485,166
1934	20,622,906	4,035,361	7,282,187	496,574
1935	23,026,982	4,155,903	9,852,118	653,769
1936	24,364,181	4,117,871	11,246,707	662,628

Table 31 - IMPORTS INTO CANADA OF ELECTRICAL APPARATUS, 1935 and 1936.

Items	1935		1936	
	Quantity	Value	Quantity	Value
		$		$
Batteries, primary, electric and galvanic, n.o.p. and complete parts	...	124,228	...	138,748
Batteries, electric, storage, and complete parts, n.o.p., including separator walls of wood, cut to size or not	...	136,065	...	144,192
Heating apparatus, n.o.p.	...	53,999	...	93,479
Electric dynamos and generators, n.o.p., and complete parts	...	247,890	...	447,675
Fuses, fuse plugs and cutouts, electric, and complete parts, n.o.p.	...	63,555	...	96,794
Lamps, electric, arc	...	28,593	...	5,546
Lamps, electric, incandescent, carbon filament ..... No.	143,786	18,910	486,030	18,830
Lamps, electric, incandescent, metal filament ..... No.	2,242,934	131,488	3,780,325	215,088
Lights - Electric head, side and tail lights, n.o.p.; electric torches or flashlights and parts	...	549,690	...	492,811
Electric light fixtures and appliances, n.o.p., and complete parts	...	208,031	...	574,577
Lightning arresters, choke coils, reactors and other protective devices, and complete parts, n.o.p.	...	33,076	...	40,391
Meters, electric, and complete parts	...	110,995	...	164,128
Motors, electric, n.o.p., and complete parts	...	1,099,791	...	1,496,996
Motors for electric fans, n.o.p. ..... No.	2,093	18,685	10,080	46,012
Rheostats, controllers and other starting and controlling devices, and complete parts	...	342,240	...	468,781
Sad irons, electric, and complete parts	...	22,446	...	58,745
Self-contained lighting outfits and complete parts, n.o.p.	...	2,658	...	3,477
Sockets, outlets and receptacles and complete parts	...	74,367	...	64,535
Spark plugs, magnetos, n.o.p., and other ignition apparatus and complete parts	...	234,882	...	97,422
Magnetos and complete parts thereof, when imported by the manufacturers of internal combustion engines, for use exclusively in the manufacture of such engines in their own factories	...	9,665	...	10,204
Switchgear, flame proof, electric, for use underground in coal mines, and complete parts	...	15,252	...	18,096
Electric dry shaving machines of a class or kind not made in Canada, for use in removing human hair, and complete parts thereof	...	74,273	...	204,169

Table 31 - IMPORTS INTO CANADA OF ELECTRICAL APPARATUS, 1935 and 1936 (concluded)

Items		1935 Quantity	1935 Value	1936 Quantity	1936 Value
			$		$
Steam turbo-generator sets, electric, 700 h.p. and greater, of a class or kind not made in Canada, and complete parts thereof	No.	9	186,847	8	300,731
Switches, switchboards, circuit breakers and complete parts, n.o.p.		...	534,306	...	593,457
Telegraph apparatus, electric, and complete parts		...	32,381	...	77,756
Telephone apparatus, electric, and complete parts		...	450,904	...	634,615
Transformers and complete parts		...	91,687	...	113,032
Radio tubes	No.	430,749	258,149	565,873	289,659
Radio and wireless apparatus, electric, n.o.p.		...	1,695,450	...	2,256,540
Electric apparatus, n.o.p., and complete parts		...	1,573,768	...	1,761,790
TOTAL	$	...	8,484,271	...	10,907,782

Table 32 - EXPORTS FROM CANADA OF ELECTRICAL APPARATUS, 1935 and 1936.

Items		1935	1936
		$	$
(a) EXPORTS			
Batteries, storage		170,595	139,504
Batteries, n.o.p.		174,922	105,725
Telegraph, telephone and radio apparatus, n.o.p.		217,819	266,332
Radio and wireless apparatus (except batteries)		144,936	287,580
Dynamos, generators and motors		167,398	316,424
Electric stoves and other electrical heating and cooking devices - (To March 31, 1935)		279,791	...
Electric stoves and parts (From April 1, 1935)	No.	11,500	17,961
	$	745,850	1,112,108
Electrical cooking and heating devices, domestic, n.o.p. (from April 1, 1935)		20,363	25,420
Spark plugs, magnetos and other ignition apparatus		524,144	725,959
Electric apparatus, n.o.p.		288,137	476,760
TOTAL		2,733,955	3,455,312
(b) RE-EXPORTS			
Telegraph, telephone and radio apparatus (except batteries)		46,344	55,713
Dynamos, generators and motors		21,728	31,346
Spark plugs, magnetos, and other ignition apparatus		1,887	3,578
Electric apparatus, n.o.p.		80,903	89,655
TOTAL		150,862	180,292

NOTE - The letters "n.o.p." mean "not otherwise provided for" in the statistical classification.

DIRECTORY OF FIRMS INCLUDED IN THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY, 1936.

NOTE - This directory is not intended to be a complete list of the manufacturers of electrical equipment. It is merely a list of the concerns which the Bureau has classified to the Electrical Apparatus and Supplies Industry which includes all works engaged CHIEFLY in making electrical equipment using non-ferrous metals as their main materials. Some concerns make electrical equipment from iron, steel, clay, etc., but such producers have been classified to other industries, according to the constituent materials used. Other manufacturers make electrical supplies as minor products and have also been allotted to other groups. (See appendix to directory).

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Names of Firms	Location of Plants
NOVA SCOTIA -	
Amherst Battery Manufacturing Plant	108 Victoria St., Amherst

DIRECTORY OF FIRMS INCLUDED IN THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY, 1936. (continued)

Names of Firms	Location of Plants
QUEBEC -	
Cables, Conduits & Fittings Limited	63 Richelieu St., St. Johns
Canadian Laco Lamps Limited	745 Guy St., Montreal
Canadian Marconi Company	2442 Trenton Ave., Montreal
Conduits National Co. Ltd.	3081-C Ontario St. E., Montreal
Devoe Electric Switch Co.	863 St. Maurice St., Montreal
Economy Fuse & Mfg. Co. of Canada, Limited	1030 St. Alexander St., Montreal
Electric Fixtures & Portable Lamp Mfg.	690 Notre Dame St. W., Montreal
Electrical Manufacturing Co. Ltd.	Montmagny
Electrolier Mfg. Co. Limited	5849 Boyer St., Montreal
Electrolux (Canada) Limited	1725 Basin St., Montreal
Elpeco of Canada, Limited	2591 Notre Dame St. E., Montreal
Fittes Battery & Ignition Limited	3475 Park Ave., Montreal
Flex-I-Con Manufacturing Co. Ltd.	1315 Bellechasse St., Montreal
Hale Brothers Limited	6230 Chambord St., Montreal
Haliburton & White Limited	686 Notre Dame St. W., Montreal
Hart Battery Co. Limited	170 St. Georges St., St. Johns
Hughes, Benjamin, Electric Co.	205 Vitre St. W., Montreal
Lighting Appliance Co. of Canada, Ltd.	647 Vitre St. W., Montreal
Medical Equipment Mfg. Inc.	1396 St. Catherine St. W., Montreal
New Era Battery Co.	2240 Bellechasse St. E., Montreal
Northern Electric Co. Limited	1261 Shearer St., Montreal
Nu Way Battery Ignition Service Reg'd.	1200 Demontigny E., Montreal
Phillips Electrical Works Ltd.	5795 De Gaspe Ave., Montreal
Pyle-National Co. of Canada, Limited	4857 Acorn Ave., St. Henri, Montreal
R. C. A. Victor Co. Ltd.	925 Lenoir St., Montreal
Schick Shaver Limited	St. Johns
Solex Company Limited	4060 St. Lawrence Blvd., Montreal
Sunlite Electric Co. Limited	362 Notre Dame St. W., Montreal
White, T. N., & Sons Ltd.	476 St. Henri St., Montreal
ONTARIO -	
Amalgamated Electric Corporation, Limited	372 Pape Ave., Toronto
Arrow-Hart & Hegeman (Canada) Limited	310 Spadina Ave., Toronto
Backer, C. B., Co. Ltd.	25 Aberdeen St., Ottawa
Baird, Wm., & Son	568 Dundas St., Woodstock
Baldwin International Limited	620 King St. W., Toronto
Boston Insulated Wire & Cable Co. Ltd.	118 Shaw St., Hamilton
Branston, Chas. A., Limited	58 Stewart St., Toronto
Braun & Bonnick Limited	22 Orillia St., Toronto 2
Brock Snyder Mfg. Co.	21 John St., Grimsby
Burgess Battery Company	399 Buttrey St., Niagara Falls
Campbell, W. J., Co. Ltd.	137 Clarence St., Brantford
Canada Batteries Limited	927 Dufferin St., Toronto (4)
Canada Wire and Cable Co. Ltd.	Leaside
Canadian Chromalox Co. Ltd.	251 Queen St. E., Toronto
Canadian Crocker-Wheeler Co. Ltd.	George St., St. Catharines
Canadian Curtis Refrigeration Co. Ltd.	20 George St., Hamilton
Canadian Electric Box Co.	1402 Queen St. E., Toronto
Canadian Fitzgerald Limited	468 Wellington St. W., Toronto
Canadian Flexible Conduit	1874 Davenport Rd., Toronto
Canadian General Electric Co. Ltd.	224 Wallace Ave., Toronto
Canadian General Electric Co. Ltd.	107 Park St., Peterborough
Canadian General Electric Co. Ltd.	1025 Lansdowne Ave., Toronto
Canadian General Electric Co. Ltd. (Vacuum Tube Division)	189 Dufferin St., Toronto
Canadian General Electric Co. Ltd. (Edison Lamp Works)	221 Dufferin St., Toronto
Canadian Jefferson Electric Co. Ltd.	535 College St., Toronto
Canadian Line Materials Limited	St. Clair Ave. E., Scarboro Junction, Toronto
Canadian National Carbon Co. Ltd.	805 Davenport Road, Toronto
Canadian Transformer Co.	293 Queen St. S., Kitchener
Canadian Triangle Conduit Co. Ltd.	2382 Dundas St. W., Toronto

DIRECTORY OF FIRMS INCLUDED IN THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY, 1936 (continued)

Names of Firms	Location of Plants
ONTARIO (continued)	
Canadian Westinghouse Co. Ltd.	Sanford Ave. and Myler St., Hamilton
Cansfield Electrical Works Ltd.	260 Geary Ave., Toronto
Commercial Fixture Co. Ltd.	75 Sherbourne St., Toronto
Commonwealth Electric Corp. Ltd.	130 Dennistoun St. S., Welland
Conduits National Co. Ltd.	126 Don Esplanade, Toronto
Continental Carbon of Canada, Ltd.	54 Sumach St., Toronto
Continental Electric Co. Ltd.	310 Spadina Ave., Toronto
Conroy Manufacturing Co. Ltd.	55 Catherine St., St. Catharines
Crouse-Hinds Co. of Canada, Ltd.	7 Labatt Ave., Toronto
Crown Electrical Manufacturing Co. Ltd.	21 Sydenham St., Brantford
Curtis Lighting of Canada, Ltd.	260 Richmond St. W., Toronto
Delta Products Limited	35 Catharine St. S., Hamilton
Dominion Carbon Brush Co. Ltd.	250 Richmond St. W., Toronto
Dominion Cutout Co. Ltd.	250 Richmond St. W., Toronto
Dominion Electric Mfg. Co. Ltd.	60 Sumach St., Toronto
Dominion Electrohome Industries Ltd.	480 Victoria St., Kitchener
Dominion Refrigeration Co. Ltd.	457 King St. W., Toronto
Durable Electric Appliance Co.	81 Jarvis St., Toronto
Eastern Power Devices, Ltd.	1244 Dufferin St., Toronto
Electric Auto-Lite Limited	Christina St. N., Sarnia
Electric Magnetic Blanket Co.	510 Spadina Ave., Toronto
Electric Products Co. of Canada	349 Carlaw Ave., Toronto
Elgin Electric Co.	170 Portland St., Toronto
Erie Resistor of Canada, Ltd.	Room 412, Terminal Warehouse Building, Toronto
Exide Batteries of Canada, Ltd.	153 Dufferin St., Toronto
Falls Electric Resistors Limited	Courtwright St., Fort Erie North
Federal Wire & Cable Co. Ltd.	225 Dublin St., Guelph
Ferranti Electric Ltd.	Industrial St., Mount Dennis, Toronto (9)
Fergusson, J. R.	56 Ainslie St. N., Galt
Flexible Shaft Co. Ltd.	321 Weston Rd. S., Toronto
Force Electric Products	Montrose St., Preston
Frigidaire Corporation	35 Fraser Ave., Toronto
Gerfinkel, Louis, & Co. Rosejoli Co. of Canada	48 Elm St., Toronto
General Dry Batteries of Canada, Ltd.	228 St. Helen's Ave., Toronto
Hammond Mfg. Co.	38 Wellington St. W., Guelph
Hart Manufacturing (Canada) Ltd.	512 King St. E., Toronto
Hoover Company Limited	Gage Ave. and Barton St., Hamilton
Hygrade Company Limited	151 Beverley St., Toronto
Igloo Refrigeration Co. Ltd.	103 Bathurst St., Toronto
International Resistance Co. Ltd.	187 Duchess St., Toronto
Ireland Mfg. Co.	93 Cannon St. W., Hamilton
Jones & Moore Electric Co. Ltd.	296 Adelaide St. W., Toronto
Kearney, J.R., Corp. of Canada, Ltd.	660 King St. W., Toronto
Kelvinator of Canada, Ltd.	1152 Dundas St. E., London
La Salle Lead Products Ltd.	630 Wyandotte St. E., Windsor
Leff Electric Co.	261 Dundas St., London
Leland Electric Canada Ltd.	9 Duke St., Toronto
Lighting Products Ltd.	366 Adelaide St. W., Toronto
Lincoln Electric Co. of Canada, Ltd.	65 Bellwoods Ave., Toronto (3)
Line & Cable Accessories Limited	347 Sorauren Ave., Toronto (3)
Markel Electric Products Ltd.	23 Lewis St., Fort Erie North
Marr Machine & Mfg. Co.	62 Wallace Ave., Toronto
Meredith, C.C., & Co. Ltd.	Queen St., Streetsville
Metal Industries Ltd.	112 York St., Hamilton
Minneapolis-Honeywell Regulator Co. Ltd.	117 Peter St., Toronto
Mohawk Radio Ltd.	263 Seventh St., New Toronto
Moloney Electric Co. of Canada, Ltd.	213 Sterling Road, Toronto
Monarch Battery Mfg. Co. Ltd.	Montreal and Joseph Sts., Kingston
National Batteries Ltd.	45 Richmond St. E., Toronto
National Electric Mfg. Co.	510 King St. W., Toronto
Noma Electric Co. of Canada, Ltd.	179 John St., Toronto
Osborne Electric Co. Ltd.	2568 Dundas St. W., Toronto
Packard Electric Company, Ltd.	15 Race St., St. Catharines
P. & E. Division of Powerlite Devices Ltd.	171 John St., Toronto
Philco Products Ltd.	1244 Dufferin St., Toronto

DIRECTORY OF FIRMS INCLUDED IN THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY, 1936. (continued)

Names of Firms	Location of Plants
ONTARIO (concluded)	
Phillips Electrical Works Ltd.	Brockville
Pierce Fuse Corp. Ltd.	24 Klauck St., Fort Erie North
Plate Lock Battery Mfg. Co. Ltd.	43 Ritson Rd. N., Oshawa
Pole-Line Equipment Ltd.	106 Jarvis St., Toronto
Premier Vacuum Cleaner Co. Ltd.	18 Breadalbane St., Toronto
Prest-O-Lite Storage Battery Co. Ltd.	1352 Dufferin St., Toronto
Radiant Aluminum Co.	575 Adelaide St. W., Toronto
Radio Condenser Co. Ltd.	579 Richmond St. W., Toronto
Radio Valve Company of Canada, Ltd.	189 Dufferin St., Toronto
Railway & Power Engineering Corp. Ltd.	171 Eastern Ave., Toronto
Redi-Heat Electrical Appliance Co.	Mill St., Deseronto
Reed-Cameron	579 Richmond St. W., Toronto
Renfrew Electric & Refrigerator Co. Ltd.	Elizabeth St., Renfrew
Robbins & Myers Co. of Canada, Ltd.	40 Morrell St., Brantford
Rogers-Majestic Corporation, Ltd.	622 Fleet St. W., Toronto (2)
Rogers Radio Tubes, Ltd.	100 Sterling Road, Toronto
Sampson-United of Canada, Ltd.	69 Sherbourne St., Toronto
Sangamo Co. Ltd.	183 George St., Toronto
Service Lamp Co. Ltd.	197 King St., London
Service Station Equipment Co. Ltd.	101 Hanson St., Toronto
Shonbeck Clock Co.	29 Mary St., Hamilton
Smith & Stone Limited	Georgetown
Sparton of Canada, Ltd.	Corner Elm and Pine Sts., London
Square D Co. of Canada, Ltd.	672 Dupont St., Toronto
Standard Bronze Co. Ltd.	4 Trafalgar Ave., Toronto (3)
Star Electric Fixtures Ltd.	107 Church St., Toronto
Stewart-Warner Alemite Corp. of Canada Ltd.	McDonald Ave., Belleville
Stromberg-Carlson Telephone Mfg. Co. of Canada, Ltd.	211 Geary Ave., Toronto
Superior Electrics Ltd.	Pembroke
Taylor Electric Mfg. Co. Ltd.	526 Adelaide St., London
Universal Cooler Co. of Canada, Ltd.	Brant St., Brantford
Virden, J.C., Ltd.	35 Front St. E., Toronto
Volta Manufacturing Co. Ltd.	Alexander St., Welland
Vulcan Electric Products	3160 Dundas St. W., Toronto
Walker Metal Products Ltd.	1511 Kildare Rd., Walkerville
Walsh Electrical Co.	465 Church St., Toronto
Wheeler Reflector Co. of Canada, Ltd.	44 York St., Toronto
White Radio Ltd.	41 West Ave. N., Hamilton
Willard Storage Battery Co. of Canada, Ltd.	269 Campbell Ave., Toronto (9)
Wilson Battery Products	21 Church St., Oshawa
Wynston, A.L., Jr. Ltd.	270 King St. W., Toronto
MANITOBA -	
Canadian Electric & Brass Ltd.	120 Lombard St., Winnipeg
Electric Heating & Mfg. Co. Ltd.	902 Home St., Winnipeg
Globelite Batteries Ltd.	147 Pacific Ave., Winnipeg
Ideal Electric Mfg.	372 Selkirk Ave., Winnipeg
Langley Electric Mfg. Co. Ltd.	677 Notre Dame Ave., Winnipeg
Leeders' Limited	1375 Portage Ave., Winnipeg
L. & S. Electric Mfg. Ltd.	157 Portage Ave., Winnipeg
Wahl Mfg. Co. of Canada	62 Albert St., Winnipeg
ALBERTA -	
Alberta Battery Co. Ltd.	420 Ninth Ave. E., Calgary
Blais Brothers Battery Co. Ltd.	10519 - 104th Avenue, Edmonton
Langley Electric Co. Ltd.	1301 - 11th Ave. E., Calgary
Smith Batteries Ltd.	1012 - 9th Ave. W., Calgary

DIRECTORY OF FIRMS INCLUDED IN THE ELECTRICAL APPARATUS AND SUPPLIES INDUSTRY, 1936. (concluded)

Names of Firms	Location of Plants
BRITISH COLUMBIA -	
Canadian Petersine Electric Incubators Ltd.	2701 Douglas Rd., New Westminster
Cemco Electrical Mfg. Co. Ltd.	165 W. Fourth Ave., Vancouver
Cope & Son Ltd.	550 Cambie St., Vancouver
Coyle Batteries Ltd.	1481 Venables St., Vancouver
Cruickshank Brothers Ltd.	540 East Hastings St., Vancouver
Electric Panel Mfg. Ltd.	1250 Richards St., Vancouver
Francis Battery Service	1412 Quadra St., Victoria
Jones Brothers Service Station Ltd.	866 Yates St., Victoria
Langley Mfg. Co. Ltd.	Granville Island, Vancouver
Treleaven, J. M.	No. 17 Road, Lulu Island, Vancouver.

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APPENDIX TO DIRECTORY

LIST OF FIRMS WHICH MADE CERTAIN ELECTRICAL APPARATUS OR SUPPLIES IN 1936 BUT WHICH HAVE BEEN CLASSIFIED TO OTHER INDUSTRIES (See Table 14)

Names of Firms	Location of Plants
Aluminum Company of Canada	Arvida, P.Q.
Altorfer Brothers of Canada, Ltd.	1615 William St., Montreal, P.Q.
Armstrong Foundry & Machine Shop Ltd.	Wellington St., Orangeville, Ont.
Atlas Engineering & Machine Co. Ltd.	80 Eastern Ave., Toronto
Babcock-Wilcox and Goldie-McCulloch Ltd.	Galt, Ont.
Beach Foundry Limited	Hinton Ave., Ottawa, Ont.
Beatty Brothers Ltd.	Fergus, Ont.
Belanger, A., Ltee.	Montmagny, P.Q.
Bendix Eclipse of Canada, Ltd.	Argyle Road, Walkerville, Ont.
Black & Decker Mfg. Co. Ltd.	10 St. Sophie Lane, Montreal, P.Q.
Boyd, A.G., & Co.	100 Front St. E., Toronto, Ont.
Brantford Washing Machine Co. of Canada, Ltd.	Brantford, Ont.
Brown Engineering Corp. Ltd.	360 Dufferin St., Toronto, Ont.
Caloric Furnace Co. Ltd.	Alliston, Ont.
Canada Foundries & Forgings Ltd.	Water St. W., Brockville, Ont.
Canadian Colortype Ltd.	290 York St., Hamilton, Ont.
Canadian Ironing Machine Co. Ltd.	1151 Queen St. W., Toronto, Ont.
Canadian Ohio Brass Co. Ltd.	Niagara Falls, Ont.
Canadian Porcelain Co. Ltd.	Paradise Road, Hamilton, Ont.
Canadian Sirocco Co. Ltd.	300 Banwell St., Windsor, Ont.
Canadian Radiator Mfg. Co.	196 Adelaide St. W., Toronto, Ont.
Chadwick Carroll Brass & Fixtures Ltd.	365 Wilson Ave., Hamilton, Ont.
Chadwick, F., & Son, Brass Co. Ltd.	8 George St., Hamilton, Ont.
Champion Spark Plug Co. of Canada, Ltd.	1416 Howard Ave., Windsor, Ont.
Clare Brothers & Company	Preston, Ont.
Coffield Washer Co. Ltd.	77 Niagara St., Hamilton, Ont.
Connor, J. H., & Son, Ltd.	10 Lloyd St., Ottawa, Ont.
Corman Engineering Co.	81 Portland St., Toronto, Ont.
Crown Brass & Spinning Co.	117 St. Patrick St., Toronto, Ont.
Dominion Foundry Limited	167 St. Hubert St., Point Viau, P.Q.
Dowswell Lees & Co. Ltd.	193 Elgin St., Hamilton, Ont.
Draft King Blowers	1960 Yonge St., Toronto, Ont.
Easy Washing Machine Co. Ltd.	Mirandi and Schell Aves., Toronto, Ont.
Electric Auto Lite Ltd.	Christina St. S., Sarnia, Ont.
Electro Metallurgical Co. of Canada, Ltd.	Welland, Ont.
Enamel & Heating Products Ltd.	Sackville, N.B.
Engineering Products of Canada, Ltd.	6259 Notre Dame St. E., Montreal, P.Q.
Enterprise Foundry Co. Ltd.	Sackville, N.B.
Essex Wire Corporation Ltd.	1217 McDougall Ave., Windsor, Ont.
Fairbanks, E.T., & Co. Ltd.	Sherbrooke, P.Q.
Fairgrieve & Son, Ltd.	50 Dovercourt Rd., Toronto, Ont.
Findlays Ltd.	Carleton Place, Ont.
Fonderie Rigaud	Rigaud, P.Q.
General Steel Wares, Ltd.	London, Ont.

APPENDIX TO DIRECTORY (concluded)

Names of Firms	Location of Plants
Gilbert & Barker Mfg. Co. Ltd.	207 Geary Ave., Toronto, Ont.
Gilson Mfg. Co. Ltd.	York Road, Guelph, Ont.
Globe Iron Works	1815 Pandora St., Vancouver, B.C.
Greey, William & J. G., Limited	56 Esplanade St., Toronto, Ont.
Guelph Stove Co. Ltd.	Guelph, Ont.
Gurney Foundry Co. Ltd.	96 Principal St., St. Laurent de Montreal, P.Q.
Hall Foundry Co. Ltd.	Hespeler, Ont.
Hamilton Machine Co.	11 Ferguson Ave., Hamilton, Ont.
Hardware & Woodenware Ltd.	Coaticook, P.Q.
Hampson, Q.C.	Walkerton, Ont.
Hastings Brass Foundry	236 Clarke Drive, Vancouver, B.C.
Hastings, Maurice	10 Pine St., Stratford, Ont.
Hepburn, Jno. T., Ltd.	18 Van Horne St., Toronto, Ont.
Hi Power Furnace & Stoker Co. Ltd.	5750 Granville St., Vancouver, B.C.
J. A. Wilson Co. Limited	9 Morrison St., Toronto, Ont.
Ingersoll Machine & Tool Co. Ltd.	King St. W., Ingersoll, Ont.
Johnson Copper & Brass	83 Ryerson Ave., Toronto, Ont.
Kinkade Burners	54 Wellington St., Stratford, Ont.
Kondu Mfg. Co. Ltd.	South St., Preston, Ont.
Kraeuter & Co. of Canada, Ltd.	80 Duchess St., Toronto, Ont.
Kribs, W.A., Co. Ltd.	Guelph Ave., Hespeler, Ont.
La Cie Bedard Ltee.	L'Assomption, P.Q.
La Fonderie de Joliette	Joliette, P.Q.
La Fonderie de L'Islet Ltee.	L'Islet Station, P.Q.
La Fonderie de Ste. Croix Ltee.	Ste. Croix, P.Q.
MacDonald Metal Products Co. Ltd.	Waterloo, P.Q.
Maple Leaf Electric Tools Ltd.	171 Eastern Ave., Toronto, Ont.
Maxwells Ltd.	73 Park Ave., St. Mary's, Ont.
May Oil Burner Co. of Canada, Ltd.	17 Ellen St., Toronto, Ont.
Metal Stampings Ltd.	435 Fleet St., Toronto, Ont.
Mitchell, Robert, Co. Ltd.	750 Belair Ave., Montreal, P.Q.
Monarch Oil Burners Co.	701 St. Clair Ave. W., Toronto, Ont.
McKinnon Industries Limited	Ontario St., St. Catharines, Ont.
Moffats Limited	Weston, Ont.
Toronto Metal Spinning Co.	32 Eastern Ave., Toronto, Ont.
Metal Stampings Ltd.	Fleet St., Toronto, Ont.
Niagara Foundry Co.	Buttrey St., Niagara Falls, Ont.
Orme's Limited	175 Sparks St., Ottawa, Ont.
Paquette, P., Co.	Nelson St., Penetanguishene, Ont.
Premier Automatic Coal Burners	1620 Bloor St. W., Toronto, Ont.
Radigan, John, & Co.	48 Ferguson Ave. S., Hamilton, Ont.
Renfrew Machinery Co. Ltd.	Renfrew, Ont.
Sheldons Limited	96 Grand Ave., Galt, Ont.
Shenton, H. E.	110 Aikman Ave., Hamilton, Ont.
Superior Engineering Co. Ltd.	254 Adelaide St. W., Toronto, Ont.
Shaver Heating Specialties Ltd.	331 Laurier Ave. W., Ottawa, Ont.
Service Station Equipment Co. Ltd.	101 Hanson St., Toronto, Ont.
Smith & Stone, Ltd.	Georgetown, Ont.
Standard Bronze Co. Ltd.	4 Trafalgar Ave., Toronto, Ont.
Thor Canadian Co. Ltd.	Fleet and Bathurst Sts., Toronto, Ont.
Timken Silent Automatic of Canada, Ltd.	Walker Road, Walkerville, Ont.
Toronto Blower Co.	156 Duke St., Toronto, Ont.
Toronto Foundry Co.	1884 Davenport Road, Toronto, Ont.
Tudhope Metal Specialties Ltd.	Orillia, Ont.

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