

The total equipment of Canada then of 1891 in light, heat and power establishments was:

Establishments	80
Employees	763
Capital	\$4,113,771
Wages	297,684
Output	1,154,149

Comparing these totals with those of 1901 which include only establishments having five hands, the evidence is strong that there has been a marvellous increase in the development of electric light, heat and power applications in Canada.

The Statistical Office has been able to secure a fairly complete return of the electric light companies for 1903, so that we can give data which enable us to ascertain the extent of the development in twelve years with a successful approach to accuracy.

The first point necessary for a comparison of the equipment of electric light works possessed by Canada is the number of establishments.

By provinces these were in.

Provinces.	1891.	1903.
British Columbia	2	17
Manitoba	2	7
New Brunswick	7	13
Nova Scotia	7	22
Ontario	48	199
P. E. Island	2	3
Quebec	9	49
Territories	2	6
Total	80	316

This is a marvellous development in twelve years. It shows how fully Ontario has entered into the spirit of the age and what a full equipment of the great force of modern times she has provided for herself.

In the 316 establishments of 1903 there were 1,786 hands, compared with 762 hands in 1891. There was a capital of over \$20,000,000 invested against \$3,200,000 in 1891.

Another result of our enquiry was that in the Province of Ontario about 100 of the plants were found to be using coal or wood, about 60 using water-power, and 35 steam and water, remainder not stating the particulars. In Quebec 6 establishments used coal or wood; 38 utilized the water-power of the province, and 7 combined water-power and steam-power. In New Brunswick 11 obtained power from coal or wood and 2 from water. In Nova Scotia 16 used coal and 6 water. In Prince Edward Island 2 coal and 1 water. In Manitoba 5 coal and 2 steam and water. In the Territories 4 coal and 1 water and steam. In British Columbia 8 coal or wood, 8 water and 1 water and steam.

Except in the Province of Quebec the majority of the plants use coal or coal and wood. Sometimes sawdust is utilized.

ELECTRIC LIGHTING IN CANADA.

An analysis of the statistics of electric lights, prepared by me for the Year Book for 1903, shows that in 1903 there were 324 electric plants* in the Dominion with 14,780 arc lights and 1,212,861 incandescent lights. Taking the arc as equal to ten incandescent lights the country had on June 30 last 1,360,661 lights in use. This is an increase of 236,-

865 lights in the twelve months, or over 21 per cent. Where there were 5 lights in 1902 there were 6 in 1903. The growth since 1898 has been: Establishments, 1903, 324; increase 65. Arc lights, 14,780; increase, 4,391. Incandescents, 1,212,861; increase, 749,246, showing an increase of 42 per cent. in the number of arc lights and of 161.6 per cent. in the incandescents.

Of the provinces, Ontario is far away the chief employer of the electric light. This province had 203 of the 324 plants in use in the Dominion. It has considerably more than one-half the total number of arc lights and 47 in each hundred of the incandescents. Thirty-four municipalities in the province supply themselves with electric lighting.

The Province of Quebec has 53 plants,

		APPENDIX "A".		Number of Messages.	Number of Offices.	Number of Messages per head of Population
Countries.	Year.	Miles of Line.	Miles of Wire.			
Great Britain	1903	49,450	480,400	92,471,000	12,120	2.22
Australia	1902	45,343	121,818	8,431,372	3,102	2.23
New Zealand	1902	7,749	22,672	4,713,351	1,103	6.10
India and other Asian. Poss.	1902	57,495	190,887	6,749,372	2,006	.02
African Possessions	1902	17,885	38,832	7,555,500	....	1.08
Canada	1903	36,780	96,728	5,312,800	3,004	....
Newfoundland and British West Indies	1902	3,308	15,187	1,654,000	300	92
Gibraltar and Malta	1902	67	....	33,500	....	.15
Total British Empire		218,077	966,524	128,921,895	21,614	
Abyssinia	1902	1,050	3,168	158,400	....	..
Austria-Hungary	1902	39,372	198,303	31,554,715	9,228	.69
Argentina	1902	29,397	58,056	7,000,000	520	1.46
Belgium	1902	4,047	21,874	14,252,100	1,372	2.07
Bolivia	1902	2,465	8,625	1,075,000	68	.47
Bosnia	1902	1,803	4,873	427,452	134	.25
Brazil	1900	14,710	27,720	1,505,042	1,003	.10
Chili	1902	11,060	68,710	4,879,719	608	1.57
China	1902	14,000	49,000	3,430,000	250	.01
Columbia	1893	8,600	25,800	600,000	448	.15
Congo Free State	1902	888	3,108	62,160	40	....
Costa Rica	1902	840	2,940	284,532	68	.92
Cuba	1902	2,300	3,450	430,125	153	.27
Denmark	1902	2,385	8,855	2,409,365	169	.98
Ecuador	1902	1,242	4,347	434,470	60	.31
France	1902	90,592	340,180	47,280,070	13,527	1.21
Colonies and Dependencies:						
Algeria	1901	6,520	18,240	2,369,456	539	.50
Tunis	1901	2,420	5,500	978,000	122	.51
Other Possessions		10,700	32,100	1,605,000	300	.40
Germany	1902	83,626	309,644	45,216,963	25,621	.80
Greece	1901	3,830	5,590	1,275,095	241	.50
Guatemala	1901	3,490	10,470	929,619	157	.59
Honduras	1902	2,825	8,475	618,000	168	1.05
Italy	1901	28,472	107,810	11,682,366	6,078	.36
Japan	1903	x16,128	78,710	18,073,407	2,197	.38
Korea	1902	2,170	6,510	325,500	325	.06
Luxemburg	1902	656	1,390	87,300	196	.37
Mexico	1901	43,675	....	2,665,998	377	.19
Montenegro	1902	343	427	29,590	21	.13
Netherlands	1903	4,010	16,158	5,728,222	761	1.08
Colonies, East Indies	1901	7,518	22,554	729,316	389	.02
Nicaragua	1901	2,440	7,320	140,640	119	.28
Paraguay	1901	500	1,500	97,044	75	.15
Persia	1901	5,480	8,270	16,540	112	.002-10
Peru	1903	3,220	....	152,808	48	.03
Portugal	1902	5,301	11,688	4,054,230	461	.73
Portugal-Colonies of	1903	2,368	7,104	142,080	80	.01
Rumania	1902	4,350	8,780	2,318,683	1,866	.12
Russia	1902	106,417	325,878	*101,639,542	....	.16
Salvador	1902	1,920	5,760	715,084	135	.71
Santi Domingo	1902	430	1,290	40,000	65	.07
Servia	1902	2,300	4,925	1,092,527	145	.44
Siam	1902	2,900	7,700	154,000	360	.02
Spain	1901	20,170	47,470	4,627,713	1,534	.25
Sweden	1901	10,077	31,695	2,813,830	2,175	.55
Norway	1902	9,978	53,813	2,278,639	974	1.01
Switzerland	1902	5,556	23,765	3,273,784	2,137	.99
Turkey	1902	25,100	39,800	4,976,070	907	.21
Egypt	1903	2,562	10,868	x1,617,946	544	.16
United States	1903	196,115	1,029,983	91,391,443	23,567	1.20
Hawaii	1903	250	750	37,500	40	.24
Porto Rico	1903	470	1,410	70,400	70	.07
Philippine Islands	1903	720	2,160	43,200	42	.00 1-2
Uruguay	1901	4,604	13,812	397,493	101	.04
Total Foreign Countries		854,268	3,099,028	430,118,178	100,697	
Grand Total		1,072,345	4,065,552	557,040,073	122,341	

* Including Railway Telegrams numbering 91,639,542.

x Not including State Telegrams.

* The statistics for Africa are very incomplete, many thousands of miles of line being in hands of companies not making returns.

x Submarine cable 2,130 miles in addition.

* Some of these are absorbed by others but made their returns to the Department of Internal Revenue separately and are therefore given here separately. In the previous tables they are dealt with under the return of the absorbing companies.