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CANADA

DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

TRANSPORTATION BRANCH

PRELIMINARY REPORT

on

STATISTICS OF ELECTRIC RAILWAYS

in

CANADA

1928



Published by Authority of the Hon. James Malcolm, M.P.,
Minister of Trade and Commerce

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OTTAWA

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DEPARTMENT OF TRADE AND COMMERCE
 DOMINION BUREAU OF STATISTICS
 TRANSPORTATION BRANCH
 OTTAWA

Dominion Statistician, R.H. Coats, B.A., F.S.S., (Hon.), F.R.S.C.
 Chief, Transportation Branch, G.S. Wrong, B.Sc.

PRELIMINARY REPORT

ELECTRIC RAILWAYS OF CANADA

For Year ended December 31.

1 9 2 8.

Electric railways in Canada carried 808,023,615 passengers during 1928 which was an increase over the 1927 traffic of 26,625,421 passengers, or 3.4 per cent. These passengers include those carried on electric railway cars and on buses operated by the electric railway companies.

Gross revenues amounted to \$55,632,761, or an increase of \$2,126,360 or 4 per cent. Operating expenses were heavier than in 1927 by \$1,166,151 and the net operating revenue amounted to \$16,850,042, or \$960,209 more than for 1927.

The average passenger fare for all railways, computed by dividing the total passenger revenue by the total number of passengers carried, was 6.27 cents as against 6.25 cents for 1927. The Hamilton Street Railway in July increased its cash fare from 5 to 7 cents and tickets from 5 for 25 cents to 4 for 25 cents; the Ottawa Electric Railway in August increased the cash fares for adults from 5 to 7 cents, for children from 3 to 5 cents, and adult tickets from 5 for 25 cents to 4 for 25 cents; the Hydro Electric Power Commission in April increased the cash fares on the Essex District (Sandwich, Windsor and Amherstburg Railway) from 6 cents to 7 cents and tickets from 10 for 50 cents to 4 for 25 cents; the Sarnia Street Railway in May increased cash fares for adults from 7 to 10 cents and for children from 4 cents to 5 cents and cancelled workmen's tickets, 20 for \$1.00; and the London Street Railway cancelled the workmen's tickets, 22 for \$1.00, during June. These increases had only a small effect on the average for all railways due to the relatively heavy traffic on the Montreal, Toronto, Winnipeg and Vancouver railways and also the traffic on the smaller railways, which made no change in their rates. Also, when cash fares are increased more passengers use tickets at the lower rate instead of paying cash.

The Yarmouth Light and Power Company sold its electric railway in August and operation was discontinued in October and consequently the mileage, capital, employees and equipment of this railway have not been included in the totals, which are as at December 31, but its revenues, expenses, passengers, etc. were included for the months it was operated by the Yarmouth Light and Power Company.

Of the fifty-nine railways reporting, including the Hamilton and Dundas Street Railway, which was not operated but leased its facilities, and the Yarmouth Light and Power Company, which operated only to August 20th, eleven railways failed to earn operating expenses, having an aggregate loss of \$272,616.72. The other forty-eight railways reported a net revenue from operation of \$17,122,658.81 and after paying interest, rental and other income charges, twenty-one railways showed a loss and the other thirty-eight reported a net income of \$11,403,130.32. Only six railways paid dividends although the depreciation and other reserves and special charges made out of income amounted to \$7,485,663 as against \$6,189,648 in 1927.

The transfer of the Mimico and Scarboro divisions of the Toronto and York Radial Railway to the Toronto Transportation Commission accounted for the decrease in the track mileage of the Toronto and York Radial Railway and practically all the increase in the mileage of the Toronto Transportation Commission. There were few additions made during the year, the net increase for all railways being only 3.69 miles, or excepting the reduction of 3 miles of the Yarmouth Light and Power Company, a net increase of 6.69 miles for the other railways in both single and double track mileage, the increase in single track mileage being only 4.07 miles.

The data for the Montreal Tramways which operates on a cost of service agreement with the city of Montreal have been adjusted in this report to make the accounts comparable with those of other railways.

Chicago, Illinois, U.S.A. 60637
Date: _____

EXPERIMENTAL PROCEDURE

1. PREPARATION OF SAMPLES

The samples were prepared by _____

RESULTS

The first series of experiments was carried out at 25°C. The results are shown in Table I. The data show that the rate of reaction is first order with respect to the concentration of the reactant and zero order with respect to the concentration of the catalyst.

The second series of experiments was carried out at 35°C. The results are shown in Table II. The data show that the rate of reaction is first order with respect to the concentration of the reactant and zero order with respect to the concentration of the catalyst.

The third series of experiments was carried out at 45°C. The results are shown in Table III. The data show that the rate of reaction is first order with respect to the concentration of the reactant and zero order with respect to the concentration of the catalyst. The activation energy for the reaction was determined to be 12.5 kcal/mole.

The fourth series of experiments was carried out at 55°C. The results are shown in Table IV. The data show that the rate of reaction is first order with respect to the concentration of the reactant and zero order with respect to the concentration of the catalyst.

The fifth series of experiments was carried out at 65°C. The results are shown in Table V. The data show that the rate of reaction is first order with respect to the concentration of the reactant and zero order with respect to the concentration of the catalyst.

The sixth series of experiments was carried out at 75°C. The results are shown in Table VI. The data show that the rate of reaction is first order with respect to the concentration of the reactant and zero order with respect to the concentration of the catalyst.

The seventh series of experiments was carried out at 85°C. The results are shown in Table VII. The data show that the rate of reaction is first order with respect to the concentration of the reactant and zero order with respect to the concentration of the catalyst.

MILEAGE OPERATED

	<u>First Main Track</u>	<u>Second Main Track</u>	<u>Total Main Track</u>
1922	1,725	513	2,238
1923	1,736	511	2,247
1924	1,737	525	2,262
1925	1,738	543	2,280
1926	1,684	553	2,237
1927	1,652	563	2,215
1928	1,653	566	2,219

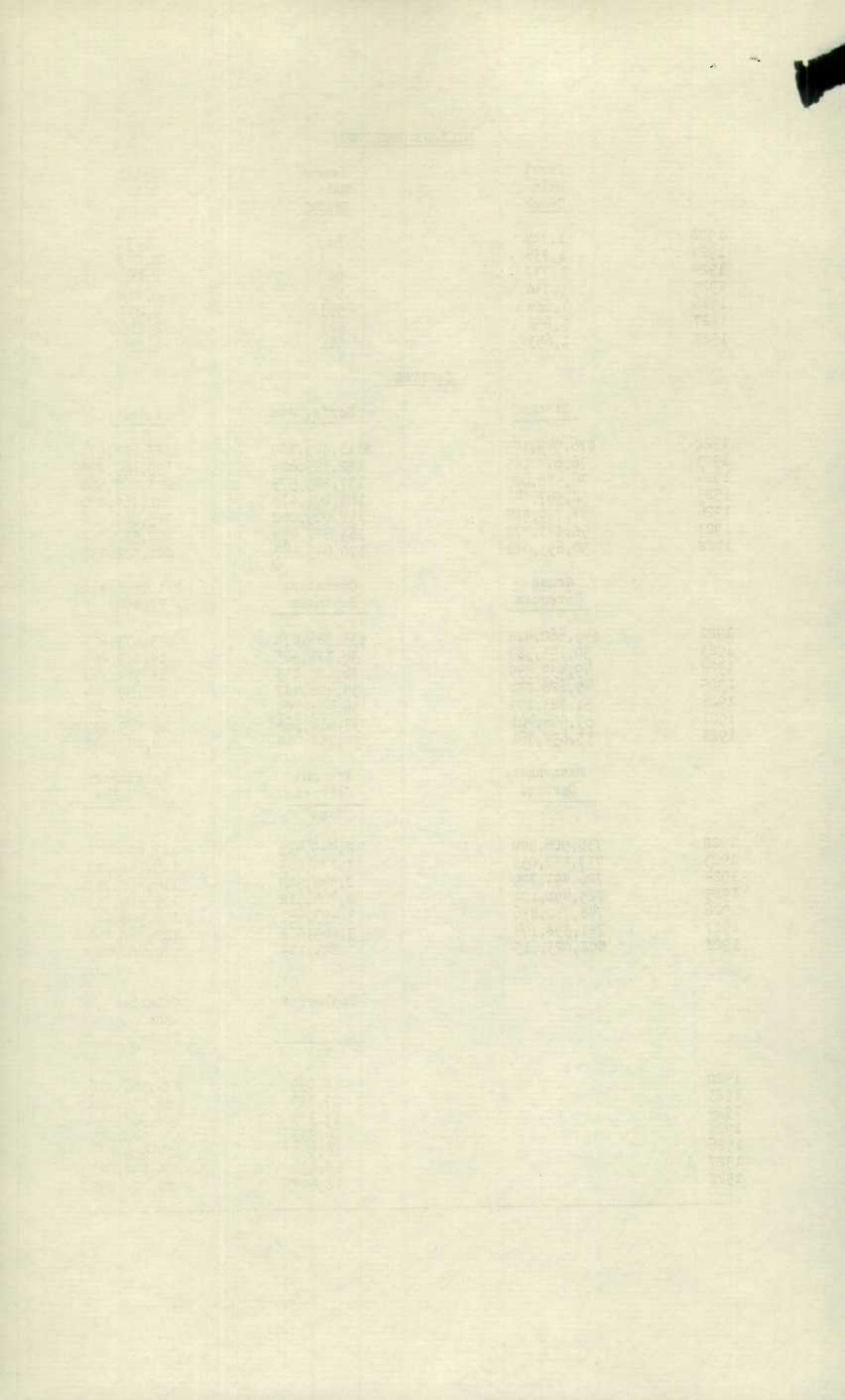
CAPITAL

	<u>Stocks</u>	<u>Bonds, etc.</u>	<u>Total</u>
1922	\$76,949,185	\$111,309,789	\$188,258,974
1923	76,674,185	122,395,685	199,069,870
1924	76,482,085	137,285,575	213,767,660
1925	58,567,242	163,201,978	221,769,220
1926	57,779,518	158,029,002	215,808,520
1927	58,873,778	163,678,939	222,552,717
1928	50,653,072	170,649,165	221,302,237

	<u>Gross Revenues</u>	<u>Operating Expenses</u>	<u>Net Operating Revenue</u>
1922	\$49,660,485	\$35,985,872	\$13,673,613
1923	50,191,387	36,171,923	14,019,464
1924	49,439,559	36,125,213	13,314,346
1925	49,626,231	35,426,487	14,199,744
1926	51,723,199	36,453,709	15,269,490
1927	53,506,401	37,616,568	15,889,833
1928	55,632,761	38,782,719	16,850,042

	<u>Passengers Carried</u> Number	<u>Freight Carried</u> Tons	<u>Passenger Car Miles</u>
1922	738,908,949	2,445,425	113,403,912
1923	737,282,038	3,145,863	115,768,713
1924	726,497,729	2,546,928	116,438,733
1925	725,491,101	2,706,312	115,715,753
1926	748,710,836	3,493,457	118,566,321
1927	781,398,194	3,269,028	127,062,864
1928	808,023,615	3,892,114	128,888,905

	<u>Employees</u> No.	<u>Salaries and Wages</u>
1922	18,099	\$24,983,113
1923	17,779	25,039,286
1924	17,379	24,964,440
1925	16,933	24,543,855
1926	16,961	24,686,549
1927	18,090	25,891,020
1928	18,697	26,494,062



NO.	Name of Railway	Total	Total	Net
		Gross Earnings	Operating Expenses	Earnings from Operation
		\$	\$	\$
1.	Brandon Municipal	34,546	52,580	Dr. 18,034
2.	Brantford and Hamilton	129,215	104,044	25,171
3.	Brantford Municipal	153,174	116,447	36,727
4.	British Columbia	5,923,284	4,732,789	1,190,494
5.	Calais Street	26,065	34,783	Dr. 8,719
6.	Calgary Municipal	925,256	579,305	345,951
7.	(Canadian National Electric Railways (Toronto Suburban District	183,218	266,935	Dr. 83,717
8.	Cape Breton Electric Company	274,307	236,496	37,812
9.	Chatham, Wallaceburg & Lake Erie	192,028	163,073	28,956
10.	Cornwall Street Railway, Light & Power Co.	116,266	65,495	50,772
11.	Edmonton Radial	796,270	533,524	262,746
12.	Fort William Street	221,296	168,351	52,944
13.	Grand River	361,632	272,860	88,772
14.	Guelph Radial	90,083	75,600	14,483
15.	Hamilton and Dundas Street	1,544	203	1,341
16.	Hamilton, Grimsby & Beamsville	207,054	171,342	35,712
17.	Hamilton Radial	101,869	95,864	6,004
18.	Hamilton Street	1,118,378	942,027	176,350
19.	Hull Electric	301,622	231,390	70,232
20.	International Transit Company	68,155	44,176	23,979
21.	Kitchener Public Utilities, Street Ry. Dept.	133,861	81,043	52,818
22.	Kingston, Portsmouth & Catararqui	51,875	46,654	5,221
23.	Lake Erie and Northern	280,776	246,970	33,806
24.	Lethbridge Municipal	60,477	62,059	Dr. 1,582
25.	Levis Tramways Co.	176,479	128,472	48,008
26.	London and Port Stanley	564,199	429,530	134,670
27.	London Street	618,961	519,690	99,271
28.	Moncton Tramways Electricity & Gas Co.	16,071	27,884	Dr. 11,813
29.	Montreal Tramways	14,826,623	8,940,506	5,886,117
30.	Montreal and Southern Counties	690,927	560,897	130,030
31.	Moose Jaw	91,724	84,568	7,056
32.	Nelson Municipal	18,913	28,122	Dr. 9,210
33.	New Brunswick Power Co.	404,129	301,013	103,115
34.	(Niagara Falls, Park & River Division (of the International Railway	164,649	176,727	Dr. 12,077
35.	Niagara, St. Catharines & Toronto	1,077,115	940,832	136,283
36.	Niagara, Welland & Lake Erie	16,293	11,081	5,212
37.	Nipissing Central	58,460	74,370	Dr. 15,910
38.	Nova Scotia Tramways & Power Co.	637,551	415,784	221,767
39.	Oshawa	506,032	261,571	244,461
40.	Ottawa	1,855,907	1,241,133	614,773
41.	Pictou County Electric Co.	54,812	42,536	12,276
42.	Port Arthur Civic	228,037	163,549	64,489
43.	Quebec Railway Light & Power Co.	1,191,528	970,713	220,815
44.	Regina Municipal	366,400	234,727	131,674
45.	Saskatoon Municipal	344,962	229,924	115,038
46.	Sandwich, Windsor & Amherstburg	1,191,740	884,411	307,329
47.	Sarnia Street	74,037	61,094	12,944
48.	Shawinigan Falls Terminal	107,973	79,933	28,040
49.	Sherbrooke Railway & Power Co.	121,791	107,447	14,343
50.	Suburban Rapid Transit Co.	170,307	140,924	29,383
51.	Sudbury, Copper Cliff Suburban	47,833	43,001	4,831
52.	Three Rivers Traction Co.	197,631	150,712	46,919
53.	Toronto Transportation Commission	13,125,516	8,199,909	4,925,607
54.	Toronto and York Radial	625,773	723,759	Dr. 97,985
55.	Township of York & Town of Weston	302,918	235,691	67,227
56.	Windsor, Essex & Lake Shore Rapid	180,060	190,302	Dr. 10,242
57.	Winnipeg	3,627,703	2,713,197	914,506
58.	Winnipeg, Selkirk & Lake Winnipeg	187,809	131,625	56,184
59.	Yarmouth Light and Power Company	9,647	12,975	Dr. 3,328
TOTAL		55,632,761	38,782,719	16,850,042



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NO.:	Total Income from Operation	Taxes	Interest on Funded and Unfunded Debt	Total Deductions from Income	Surplus for Year	Reserves and Special Charges	Dividends
	\$	\$	\$	\$	\$	\$	\$
1.	Dr. 13,749	-	21,983	21,983	Dr. 35,732	3,655	-
2.	25,171	5,910	39,600	45,510	Dr. 20,339	-	-
3.	36,727	236	27,175	27,411	9,316	15,064	-
4.	3,946,981	527,862	850,494	1,443,802	2,503,178	961,646	1,701,808
5.	3,486	1,200	4,167	5,367	Dr. 1,880	21,553	-
6.	352,405	46,263	120,021	166,344	136,061	124,975	-
7.	Dr. 73,120	14,154	118,260	135,417	Dr. 208,538	-	-
8.	181,703	30,419	62,420	114,238	67,465	-	58,840
9.	28,956	6,000	49,439	60,771	Dr. 31,815	-	-
10.	51,951	3,915	6,696	10,695	41,256	15,000	-
11.	267,718	-	224,918	224,919	42,799	40,609	-
12.	60,771	-	61,629	61,629	Dr. 858	31,262	-
13.	90,938	9,159	17,040	26,199	61,739	120,277	-
14.	14,483	2,726	26,412	29,139	Dr. 14,656	10,248	-
15.	1,341	152	-	152	1,189	-	-
16.	35,712	9,860	11,657	21,517	14,195	11,171	-
17.	6,004	4,574	8,000	12,574	Dr. 6,570	-	-
18.	224,995	41,962	48,418	93,380	131,615	144,490	-
19.	71,147	5,523	34,627	40,150	30,998	41,702	-
20.	50,446	3,271	10,682	13,952	36,494	20,000	-
21.	52,818	432	14,955	15,392	37,426	15,102	-
22.	8,236	1,143	3,991	5,134	3,103	2,496	-
23.	35,844	10,172	92,700	102,872	Dr. 67,028	73,048	-
24.	Dr. 1,582	152	21,895	21,846	Dr. 23,429	9,173	-
25.	50,411	1,800	24,600	26,400	24,011	23,411	-
26.	134,670	11,631	101,353	137,984	Dr. 3,314	36,051	-
27.	99,271	12,251	31,913	44,165	55,106	48,625	-
28.	18,230	1,353	-	1,353	16,877	-	-
29.	5,950,803	450,859	2,192,815	3,331,643	2,619,159	1,970,440	550,000
30.	135,594	15,150	113,947	143,170	Dr. 7,576	2,886	-
31.	7,056	-	3,615	3,953	3,093	22,966	-
32.	Dr. 9,210	-	4,050	4,050	Dr. 13,260	-	-
33.	248,876	26,880	118,424	145,304	107,572	40,000	40,000
34.	9,380	26,523	30,000	66,600	Dr. 57,220	42,052	-
35.	154,585	32,206	54,900	91,836	62,749	-	-
36.	5,249	816	2,136	2,953	2,296	3,290	-
37.	Dr. 15,910	-	-	54,780	Dr. 70,689	-	-
38.	688,087	137,247	193,767	331,014	357,073	175,000	22,500
39.	251,764	7,131	-	7,131	244,633	-	-
40.	614,773	60,297	195,072	268,288	346,486	265,000	-
41.	12,619	2,896	10,985	13,881	Dr. 1,262	2,715	-
42.	67,565	120	28,060	28,180	39,385	12,284	-
43.	220,815	7,837	-	7,837	212,978	13,284	-
44.	131,674	-	80,435	80,436	51,238	40,819	-
45.	115,038	13,798	49,980	63,778	51,260	39,047	-
46.	307,329	4,513	255,220	259,733	47,595	16,000	-
47.	12,944	997	5,843	6,840	6,103	7,397	-
48.	29,402	-	8,371	8,371	21,031	12,262	-
49.	87,882	1,769	77,266	79,034	8,848	9,413	-
50.	42,514	11,911	25,340	37,345	5,170	11,478	-
51.	4,831	-	7,700	7,700	Dr. 2,369	-	-
52.	46,919	1,350	35,650	37,000	9,919	9,500	-
53.	5,070,638	130,891	2,133,210	2,273,506	2,797,182	2,630,164	-
54.	Dr. 38,519	4,294	136,090	200,020	Dr. 288,539	187,184	-
55.	67,227	-	71,552	71,552	Dr. 4,325	69,853	-
56.	Dr. 10,242	8,958	56,397	65,354	Dr. 75,596	-	-
57.	2,376,316	274,537	909,479	1,238,470	1,137,845	119,872	639,345
58.	81,273	14,954	56,618	71,587	9,686	13,663	-
59.	9,045	3,138	31,807	35,293	Dr. 26,247	Cr. 461	-
	22,388,331	1,994,192	3,973,632	11,946,944	10,441,387	7,485,663	3,012,493

NO.	Name of Railway	: Total :		: Tons	
		Miles	Fare	of	Freight
		of	Passengers	Freight	Carried
		Track	Carried	Carried	
1.	Brandon Municipal	9.56	564,414	-	-
2.	Brantford and Hamilton	23.19	404,013	1,107	-
3.	Brantford Municipal	25.23	2,712,038	-	-
4.	British Columbia	302.95	77,243,646	529,648	-
5.	Calais Street	7.00	406,598	-	-
6.	Calgary Municipal	76.79	15,580,788	3,445	-
7.	(Canadian National Electric Railways (Toronto Suburban District	49.08	292,235	44,100	-
8.	Cape Breton Electric Co.	30.59	3,407,641	-	-
9.	Chatham, Wallaceburg and Lake Erie	36.65	-	218,557	-
10.	Cornwall Street Railway Light & Power Co.	4.00	1,299,946	278,656	-
11.	Edmonton Radial	54.50	13,263,562	-	-
12.	Fort William Street	25.36	3,502,968	-	-
13.	Grand River	24.36	932,601	225,547	-
14.	Guelph Radial	8.49	1,437,784	-	-
15.	Hamilton and Dundas Street	-	-	-	-
16.	Hamilton, Grimsby & Beamsville	22.60	771,568	25,473	-
17.	Hamilton Radial	18.00	741,809	47,418	-
18.	Hamilton Street	34.30	22,987,843	-	-
19.	Hull Electric	30.79	4,533,350	4,997	-
20.	International Transit Company	6.14	1,385,915	-	-
21.	Kitchener Public Utilities, Street Ry. Dept.	9.41	2,828,776	-	-
22.	Kingston, Portsmouth & Cataraqui	7.00	1,166,787	-	-
23.	Lake Erie and Northern	51.00	361,512	173,530	-
24.	Lethbridge Municipal	11.00	1,006,902	-	-
25.	Levis Tramways Co.	11.50	2,725,903	2,108	-
26.	London and Port Stanley	26.70	647,293	551,120	-
27.	London Street	42.01	12,383,886	-	-
28.	Moncton Tramways Electricity & Gas Co.	2.72	334,694	-	-
29.	Montreal Tramways	265.54	242,554,086	279,749	-
30.	Montreal and Southern Counties	56.02	3,308,284	151,536	-
31.	Moose Jaw	10.50	1,458,818	-	-
32.	Nelson Municipal	3.33	373,654	-	-
33.	New Brunswick Power Co.	23.00	6,767,026	-	-
34.	(Niagara Falls Park and River Division (of the International Railway	22.72	930,973	-	-
35.	Niagara, St. Catharines and Toronto	70.94	5,840,730	658,259	-
36.	Niagara, Welland and Lake Erie	1.51	345,208	-	-
37.	Nipissing Central	10.77	580,962	-	-
38.	Nova Scotia Tramways & Power Co.	23.83	8,672,694	-	-
39.	Oshawa	12.24	873,268	524,933	-
40.	Ottawa	58.11	33,700,595	-	-
41.	Pictou County Electric Co.	8.20	575,404	-	-
42.	Port Arthur Civic	19.53	3,679,380	-	-
43.	Quebec Railway Light and Power Co.	33.80	# 20,047,408	-	-
44.	Regina Municipal	32.37	5,563,607	46,020	-
45.	Saskatoon Municipal	19.37	5,507,853	-	-
46.	Sandwich, Windsor and Amherstburg	56.47	16,710,333	18,277	-
47.	Sarnia Street	10.00	728,743	14,029	-
48.	Shawinigan Falls Terminals	4.07	-	-	-
49.	Sherbrooke Railway & Power Co.	9.39	1,353,688	-	-
50.	Suburban Rapid Transit Co.	23.41	3,316,934	-	-
51.	Sudbury, Copper Cliff Suburban	7.90	532,719	-	-
52.	Three Rivers Traction Co.	9.00	3,765,699	-	-
53.	Toronto Transportation Commission	222.41	193,642,927	-	-
54.	Toronto and York Radial	49.46	6,291,386	33,437	-
55.	Township of York and Town of Weston	14.70	6,154,499	-	-
56.	Windsor, Essex and Lake Shore Rapid	37.35	272,230	53,340	-
57.	Winnipeg	110.51	60,223,255	-	-
58.	Winnipeg, Selkirk & Lake Winnipeg	41.36	1,148,715	6,828	-
59.	Yarmouth Light and Power Co.	-	178,065	-	-
TOTAL		2,218.78	808,023,615	3,892,114	

Bus figures not available.



NO. :	Total Car Miles :	Conductors and Motormen and Conductor- Motormen :	Total Employees :	Total Salaries and Wages \$:
1.	244,815	11	20	29,531.88
2.	294,767	11	35	46,014.88
3.	623,800	30	60	79,559.73
4.	16,031,675	1,240	2,257	3,611,061.00
5.	-	-	-	-
6.	2,973,235	131	235	426,286.40
7.	637,733	19	135	170,434.63
8.	654,729	32	105	145,052.98
9.	160,348	6	59	66,652.36
10.	293,716	13	37	47,251.54
11.	2,404,867	121	240	391,746.61
12.	875,521	31	65	103,545.05
13.	567,978	28	175	195,146.85
14.	327,750	16	36	45,357.39
15.	-	-	-	-
16.	517,023	16	48	66,620.00
17.	203,479	12	31	41,879.20
18.	4,089,667	260	478	637,032.79
19.	962,061	53	108	145,787.06
20.	250,177	12	33	47,151.29
21.	324,790	16	33	51,897.06
22.	266,103	17	27	35,660.20
23.	675,582	11	118	141,609.35
24.	264,706	9	27	33,643.64
25.	471,624	24	71	89,028.62
26.	1,008,213	28	128	178,640.49
27.	2,306,702	138	253	335,523.75
28.	87,544	4	11	12,707.75
29.	31,995,078	2,527	4,829	6,185,372.62
30.	1,485,200	70	220	299,725.61
31.	423,700	15	37	52,491.30
32.	65,520	6	11	17,033.19
33.	1,219,716	57	145	155,408.82
34.	300,803	28	53	91,154.69
35.	2,137,918	86	591	693,293.34
36.	77,566	3	5	6,637.94
37.	150,096	13	20	31,447.92
38.	1,932,720	92	194	300,989.62
39.	276,020	30	150	192,076.32
40.	4,851,217	350	618	923,023.00
41.	148,613	5	23	23,262.89
42.	758,040	28	71	103,077.00
43.	2,779,829	256	569	665,198.08
44.	1,099,825	53	95	175,541.00
45.	1,053,505	57	95	155,494.98
46.	3,155,573	121	295	476,788.15
47.	208,578	-	31	39,563.16
48.	-	8	19	28,601.69
49.	587,028	26	90	71,210.00
50.	904,220	-	-	-
51.	103,000	6	11	17,600.00
52.	558,377	26	50	71,340.84
53.	26,453,680	2,082	4,198	6,508,433.12
54.	1,877,688	-	-	-
55.	848,521	-	-	-
56.	397,141	16	70	102,504.54
57.	9,773,406	831	1,343	1,868,199.37
58.	517,919	14	39	63,771.23
59.	30,487	-	-	-
	133,689,589	9,095	18,697	26,494,062.92

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