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CANADA  
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TRANSPORTATION BRANCH

OPERATING REVENUES, EXPENSES AND STATISTICS

of

RAILWAYS

With Annual Operating Revenues of \$500,000

For

MAY

1923

+ + +

Published by Authority of the Hon. J. A. Robb, M. P.,

Minister of Trade and Commerce.

+ + +

OTTAWA

1923

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

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OPERATING REVENUES, EXPENSES & STATISTICS

STEAM RAILWAYS OF CANADA

WITH ANNUAL OPERATING REVENUES OF \$500,000.

For the Month of May 1923.

Operating revenues of all railways in May showed a gain of 4.7 per cent over the preceding month, and of 10.2 per cent over the corresponding period of last year. The betterment over 1922 was in all the main earning divisions. In particular there is encouragement in the revival of passenger traffic, which showed an increase of 8.6 per cent over May 1922.

Operating expenses were greater in May than April by 4.7 per cent and by 10.5 as compared with May 1922. The additional outgo as against twelve months ago was chiefly in the cost of transportation and is to be found very largely in the pay-roll. The number of employees in all departments during that period has been increased from 153,336 to 168,227 involving a wages bill greater by \$1,594,386. The actual increment in operating cost was \$3,137,292. The ratio of operating expenses to gross earnings 88.62 per cent in May of this year and 88.36 in May 1922. Operating results as compared against those of last year, showed gains in both ton miles and passenger miles, in freight train, passenger train mileage, and in loaded car miles; but a drop of 8.0 per cent occurred in passenger train car miles.

The average number of tons per freight train showed a betterment as between 545.2 and 512.3. On the other hand, there was a small decline in revenue freight per train mile, which was somewhat offset by an improvement in the revenue per passenger train mile.

The Canadian National Railway in comparison with May of last year, had a gain of 9.4 per cent in gross receipts, and of 7.4 per cent in operating expenses. A betterment of 18.7 per cent in passenger revenues took place, and of 8.5 per cent in earnings from freight service. The operating ratio was reduced from 96.26 per cent in May 1922 to 94.50 in May 1923. The average train load was increased from 443.8 tons to 526.8. Revenue ton miles were bettered by 28.1 per cent. The wages bill was larger by \$875,736 and the number of employees was increased by 8,103.

The Canadian Pacific Railway comparing 1923 with 1922 had a betterment of 2.5 per cent in operating revenues and of 9.0 per cent in operating expenses. The chief addition in outgo was in the department of way and structures, amounting to 20.3 per cent. Revenue ton miles showed a gain of 15.1 per cent and revenue passenger miles 6.3 per cent. Average train load and carload both showed small losses. Wages increased by \$651,173, and the number of employees by 6,371. The operating ratio rose from 82.72 to 87.99.



COMMISSION REPORT ON STATISTICS

GENERAL PRINCIPLES

INTRODUCTION

The Commission on Statistics was organized in 1911 to study the various problems connected with the collection and publication of statistics in the United States.

The Commission was composed of representatives of the various departments of the Government, and of leading statisticians and economists.

The Commission held several public hearings, and received many suggestions from the public.

The Commission has the honor to submit to you its report on the various problems connected with the collection and publication of statistics in the United States.

THE PROBLEMS OF STATISTICS

The Commission has found that the collection and publication of statistics in the United States is a very complex problem, involving many different interests and departments of the Government.

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## OPERATING REVENUES, EXPENSES &amp; STATISTICS

## STEAM RAILWAYS OF CANADA

With annual Operating Revenues of \$500,000

For the Month of May, 1923.

	1923	1922
<u>OPERATING REVENUES</u>		
Freight	\$26,454,815.92	\$ 24,394,847.55
Passenger	6,416,676.45	5,909,584.60
Mail	594,859.55	627,024.27
Express	1,544,795.71	987,481.90
Other Freight train	1,301.50	1,977.41
Other Passenger Train	582,910.63	531,765.09
Water Line	264,204.24	251,355.50
All-Other	1,380,091.11	1,098,215.56
Total Railway Operating Revenues	37,239,655.11	33,802,251.88
<u>OPERATING EXPENSES</u>		
Maint. of Way and Structures	7,331,551.73	6,611,584.71
Maint. of Equipment	7,117,811.51	6,931,726.80
Traffic	1,109,047.70	1,025,055.08
Transportation	15,913,608.02	13,954,148.61
Misc. Operations	535,717.97	404,583.58
General	1,006,675.40	929,374.44
Trans. for Investment	Cr. 11,044.85	Cr. 40,397.46
Total Railway Operating Expenses	33,003,367.48	29,866,075.76
<u>OPERATING INCOME</u>		
Net operating Revenue	4,236,287.63	3,936,176.12
Railway Tax Accruals	562,669.00	573,272.66
Uncollectable Revenues	376.30	2,202.68
Hire of Equipment	Cr. 686,527.36	Cr. 172,059.38
Joint Facilities Rents	142,498.69	93,495.16
Operating Income	4,217,271.00	3,439,265.00
<u>OPERATING STATISTICS</u>		
Average Miles of Road Operated	38,480	38,805
No. of Tons Carried (Rev. Freight)	9,359,341	7,191,333
No. of Tons Carried One Mile "	2,451,016,474	1,954,698,960
No. of Tons Carried All Freight	10,909,819	8,235,101
No. of Tons Carried one Mile (All Freight)	2,754,692,586	2,151,584,114
No. of Revenue Pass. Carried	3,293,598	3,366,141
No. of Revenue Pass. Carried One Mile	202,726,785	198,773,110
Freight Train Miles	50,530,84	4,197,364
Passenger Train Miles	3,862,233	3,729,670
Total Train Miles (Rev. & Non Rev.)	9,368,108	8,177,019
Freight Car Miles-loaded	1113,656,615	92,197,424
Freight Car Miles-Empty	58,276,809	44,761,926
Passenger Train Car Miles	23,231,973	25,239,492
Total Amount of Pay Roll	20,207,821.93	18,613,435.56
Number of Employees	168,227	153,336
<u>AVERAGES PER DAY PER MILE OF ROAD OPERATED</u>		
Operating Revenue	\$ 31.22	\$ 28.10
Operating Expenses	27.67	\$ 24.83
No. of Tons moved One Mile (Rev. Fr.)	2,055	1,625
No. of Tons Moved One Mile (All Fr.)	2,309	1,789
No. of Rev. Passengers Carried One Mile	170	165
<u>AVERAGES PER FREIGHT TRAIN MILE #</u>		
Freight Revenue	\$5.24	\$ 5.81
No. of Tons of Freight (Rev. Fr.)	485.1	465.7
No. of Tons of Freight (All Fr.)	545.2	512.6
Loaded Freight Cars	22.5	22.0
Empty Freight Cars	11.5	10.7
<u>AVERAGES PER PASS. TRAIN MILE #</u>		
Passenger Train Revenue	\$2.37	\$2.16
Passengers Carried	52.5	53.3
Passenger Cars	6.0	6.8
Average Operating Expenses per train mile	3.52	3.65
Average Length of Haul (Rev. Fr.) Miles	261.9	271.8
Average Passenger Journey Miles	61.6	59.1
Average Tons per loaded Fr. Car	24.2	23.3
Av. Fr. Receipt per Rev. Ton Mile	1.079¢	1.248
Av. Passenger Receipt per Pass. Per Mile	3.165¢	2.973¢
Ratio of Pay Roll to Operating Revenues	54.3%	55.1%
Ratio of Pay Roll to Operating Expenses	61.2%	62.3%
Ratio of Operating Expenses to Revenue	88.62%	88.36%

# Contains a proportion of mixed train miles.



OPERATING REVENUES, EXPENSES & STATISTICS

CANADIAN NATIONAL RY.

(Can. Gov., Can. Northern, Grand Trunk Pacific and Grand Trunk Railway)

For the Month of May 1923

	1923	1922
<u>OPERATING REVENUES</u>		
Freight	\$12,798,518.09	\$11,792,584.24
Passenger	2,666,120.22	2,246,259.58
Mail	258,100.00	280,943.61
Express	983,038.00	1,028,855.86
Other Freight Train	-	-
Other Passenger Train	236,967.87	186,912.63
Water Line	-	-
All Other	608,782.68	510,554.92
Total Railway Operating Revenues	17,551,526.86	16,046,110.89
<u>OPERATING EXPENSES</u>		
Maint. of Way & Structures	\$3,376,810.23	\$3,376,945.11
Maint. of Equipment	3,633,335.40	3,681,077.11
Traffic	364,323.62	336,483.13
Transportation	8,365,678.77	7,330,350.36
Misc. Operations	281,617.80	289,699.94
General	573,328.76	471,956.06
Trans. for Investment	Cr. 8,003.83	Cr. 40,043.52
Total Railway Operating Expenses	16,587,090.80	15,446,468.19
<u>OPERATING INCOME</u>		
Net Operating Revenue	\$904,436.06	\$599,642.70
Railway Tax Accruals	193,405.35	215,616.05
Uncollectable Revenues	-	2,056.36
Hire of Equipment	Dr. 462,841.53	Dr. 218,916.38
Joint Facilities Rents	Dr. 6,793.99	Dr. 52,280.24
Operating Income	1,240,566.23	653,166.91
<u>OPERATING STATISTICS</u>		
Average Miles of Road Operated	20,455.25	20,646.21
No. of Tons Carried (Rev. Fr.)	3,972,356	2,957,138
No. of Tons Carried One Mile (Rev. Fr.)	1,271,153.520	992,483.539
No. of Tons Carried (All Fr.)	4,682,570	3,449,063
No. of Tons Carried One Mile (All Fr.)	1,403,963.000	1,085,285.067
No. of Revenue Pass. Carried	1,612,361	1,710,075
No. of Revenue Pass. Carried One Mile	75,780.967	81,279.727
#Freight Train Miles	2,664,740	2,445,397
#Passenger Train Miles	1,752,168	2,004,994
Total Train Miles (Rev. & Non Rev.)	4,651,324	4,671,252
Freight Car Miles-Loaded	57,312,144	53,553,485
Freight Car Miles-Empty	33,322,729	29,084,567
Passenger Train Car Miles	<del>8,361,256</del>	12,702,905
Total Amount of Pay Roll	\$10,818,819.30	\$9,943,083.58
Number of Employees	90,152	82,049
<u>AVERAGES PER DAY PER MILE OF ROAD OPERATED</u>		
Operating Revenue	\$27.68	\$25.07
Operating Expenses	\$26.16	\$24.15
No. of Tons Moved One Mile (Rev. Fr.)	2,005	1,551
No. of Tons Moved One Mile (All Fr.)	2,214	1,696
No. of Rev. Passengers Carried One Mile	120	127
<u>AVERAGES PER FREIGHT TRAIN MILE</u>		
Freight Revenue	\$4.80	\$4.82
No. of Tons of Freight (Rev. Fr.)	477.0	405.9
No. of Tons of Freight (All Fr.)	526.8	443.8
Loaded Freight Cars	21.5	21.9
Empty Freight Cars	12.5	11.9
<u>AVERAGES PER PASS. TRAIN MILE</u>		
Passenger Train Revenue	\$2.37	\$1.87
Passengers Carried	43.2	40.5
Passenger Cars	4.8	6.3
Average Operating Expenses per train mile	\$3.57	\$3.31
Average Length of Haul (Rev. Fr.) Miles	319.9	335.6
Average Passenger Journey Miles	47.	47.5
Average Tons per loaded Fr. Car	24.5	20.3
Av. Fr. Receipt per Rev. Ton Miles	1.0076	1.1886
Av. Passenger Receipt per Pass. per mile	3.5186	2.7636
Ratio of Pay Roll to Operating Revenue	61.6%	62.0%
Ratio of Pay Roll to Operating Expenses	65.2%	64.4%
Ratio of Operating Expenses to Revenue	94.50%	96.26%

\* Contains a proper tion of mixed train miles.

## OPERATING REVENUES, EXPENSES &amp; STATISTICS

CANADIAN PACIFIC RY.  
(Montreal & Atlantic Ry., Esquimaux & Nanaimo Ry.)

For the Month of May 1923.

	1923	1922
<u>OPERATING REVENUES</u>		
Freight	\$9,647,601.13	\$9,291,525.00
Passenger	2,808,990.68	2,802,094.14
Mail	286,840.00	297,709.91
Express	146,285.92	388,227.96
Other Freight Train	273.80	1,377.07
Other Passenger Train	322,371.20	325,482.83
Water Line	171,557.26	178,090.43
All Other	598,552.28	648,881.89
Total Railway Operating Revenues	14,282,877.27	13,953,589.23
<u>OPERATING EXPENSES</u>		
Maint. of Way and Structures	\$3,023,593.21	\$2,534,216.99
Maint. of Equipment	2,533,275.95	2,340,487.80
Traffic	675,572.05	609,438.89
Transportation	5,834,736.03	5,545,014.03
Misc. Operations	211,171.53	209,647.45
General	288,849.26	306,243.57
Trans. for Investment	-	-
Total Railway Operating Expenses	12,567,260.05	11,525,048.73
<u>OPERATING INCOME</u>		
Net Operating Revenue	\$1,715,617.22	\$2,408,540.50
Railway Tax Accruals	266,060.34	243,583.86
Uncollectable Revenues	e	-
Hire of Equipment	Fr. 537,268.99	Gr. 195,904.38
Joint Facilities Rents	Gr. 1,913.75	4,760.43
Operating Income	1,983,739.62	2,355,895.59
<u>OPERATING STATISTICS</u>		
Average Miles of Road Operated	13,912.9	13,877.2
No. of Tons Carried (Rev. Fr.)	2,402,981	2,186,958
No. of Tons Carried One Mile (Rev. Fr.)	856,154,554	743,884,616
No. of Tons Carried (All Fr.)	3,109,341	2,633,916
No. of Tons Carried One Mile (All Fr.)	1,018,449,970	840,380,816
No. of Revenue Pass. Carried	1,196,816	1,186,954
No. of Revenue Pass. Carried One Mile	92,879,595	92,980,367
#Freight Train Miles	1,854,977	1,404,501
#Passenger Train Miles	1,655,680	1,635,840
Total Train Miles (Rev. & Non Rev.)	3,510,657	3,040,341
Freight Car Miles-Loaded	14,326,622	34,073,110
Freight Car Miles-Empty	18,197,300	12,559,056
Passenger Train Car Miles	11,692,744	11,396,714
Total Amount of Pay Roll	\$7,672,256.71	\$7,021,084.07
Number of Employees	63,570	59,199
<u>AVERAGES PER DAY PER MILE OF ROAD OPERATED</u>		
Operating Revenue	\$35.10	\$32.33
Operating Expenses	\$29.12	\$26.79
No. of Tons Moved One Mile (Rev. Fr.)	1,984	1,729
No. of Tons Moved One Mile (All Fr.)	2,360	1,953
No. of Rev. Passengers Carried One Mile	229	216
<u>AVERAGES PER FREIGHT TRAIN MILE</u>		
Freight Revenue	\$5.32	\$6.35
No. of Tons of Freight (Rev. Fr.)	471.7	507.9
No. of Tons of Freight (All Fr.)	561.1	573.8
Loaded Freight Cars	22.8	23.3
Empty Freight Cars	10.0	8.6
<u>AVERAGES PER PASS. TRAIN MILE</u>		
Passenger Train Revenue	\$2.35	\$2.33
Passengers Carried	59.7	56.8
Passenger Cars	7.1	7.0
Average Operating Expenses per train mile	\$3.43	\$3.62
Average Length of Haul (Rev. Fr.) Miles	356.3	340.1
Average Passenger Journey Miles	82.6	78.3
Average Tons per loaded Fr. Car	24.6	24.7
Av. Fr. Receipt per Rev. Ton Mile	1.1276	1.2496
Av. Passenger Receipt per Pass. per Mile	2.8426	3.0146
Ratio of Pay Roll to Operating Revenues	53.7%	50.4%
Ratio of Pay Roll to Operating Expenses	61.0%	60.9%
Ratio of Operating Expenses to Revenue	87.99%	82.72%

\* Contains a proportion of mixed train miles.



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