

CANADA  
DOMINION BUREAU OF STATISTICS  
TRANSPORTATION BRANCH

OPERATING REVENUES, EXPENSES AND STATISTICS

of

RAILWAYS

With Annual Operating Revenues of \$500,000

For

JULY

1922

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OTTAWA

1922

THE HISTORY OF THE  
CITY OF NEW YORK  
FROM 1609 TO 1898

BY J. B. HORTON

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OPERATING REVENUES, EXPENSES & STATISTICS

STEAM RAILWAYS OF CANADA

WITH ANNUAL OPERATING REVENUES OF \$500,000

For the Month of July 1922

The railways as a whole showed very little change in the operations from July 1921. Net operating revenues increased \$190,324 and the operating ratio was reduced from 93.88 per cent to 93.13 per cent. Freight traffic increased 5.1 per cent but freight revenues were only .53 per cent over last year's while both passenger traffic and passenger revenues declined. Total revenues showed a decrease of \$1,166,723 or 3.2 per cent while expenses were reduced \$1,357,048 or 4 per cent, transportation expenses being cut \$1,039,651 or 6.8 per cent with an increase of 2 per cent in freight train miles and .9 per cent in passenger train miles.

Average net load per train mile was 7 tons less while the average load per car was 1.3 tons lighter. Both average receipts per ton mile and per passenger mile show the effects in the cuts in rates.

CANADIAN NATIONAL RAILWAYS. The operating deficit of the Canadian National Railways increased from \$1,334,568 to \$1,633,001 an increase of \$298,433. Freight traffic and freight revenues were practically on a parity with July 1921 but passenger earnings, due to lower rates, declined \$171,751 or 6.6 per cent with an increase in passenger miles of 2.9 per cent. Net loading of freight trains showed hardly any change but car loading declined 1.1 tons per car, thereby adding an additional loaded car to each train. Maintenance of way and structures decreased \$84,713 or 2.8 per cent but maintenance of equipment increased \$343,255 or 15.8 per cent while total expenses increased \$49,840 or .48 per cent.

The cut in wages last year became effective July 16 making the difference in the pay roll with an increase in the number of employees of 4.5 per cent, a decrease of \$112,706 or 1.6 per cent.

CANADIAN PACIFIC RAILWAY. Freight traffic showed practically no change from July 1921 but freight revenues declined \$613,865 or 6.7 per cent. Passenger traffic, however, fell off 13,925,566 passenger miles or 9.2 per cent and with the lower rates produced revenues \$685,395 or 15.6 per cent less than in 1921. Total revenues showed a decline of \$1,453,507 or 9 per cent while expenses were reduced \$1,276,063 or 9.1 per cent, giving an operating ratio of 86.96 per cent as against 87.04 per cent for July 1921.

Maintenance of equipment expenses were heavier than in June but were \$836,907 or 24.9 per cent less than for July 1921. Last year, however, July maintenance of equipment expenses increased 50 per cent over June expenses.

Freight train miles increased 8.2 per cent with an increase in total traffic of 5.4 per cent, indicating lighter loading of trains by 74.2 net tons per train. This was due to lighter loading of cars as the average number of cars per train was practically the same as last year. Light movement of coal and grain this year, undoubtedly, helped to reduce the average load per car which decreased 2.9 tons.



GRAND TRUNK RAILWAY'S operating ratio of 79.7 per cent for July was the lowest on record. (The first month covered by these reports being January 1920). Net operating revenues amounted to \$1,454,533 an increase over July 1921 of \$538,208.

Freight traffic increased 31 per cent with freight revenues \$802,309 or 19 per cent over last year's. While passenger traffic increased 26 per cent over June it was slightly below July 1921 and with lower rates, revenues were \$206,677 or 12.7 per cent less than for last year. Total revenues increased \$578,025 or 8.7 per cent while operating expenses showed an increase of only .67 per cent.

The heavier traffic was handled at practically the same transportation cost as last year with an increase in freight train miles of only 1.4 per cent.

The average net load per freight train was 531.0 tons as against 418.2 tons in July 1921 and with heavier loading of cars the number of loaded cars per train was increased only 2.5 with a decrease of 2.1 in the number of empties. This improvement was effected despite a light movement of coal which would tend to decrease the average load per car.

5/13/22-JH.

## OPERATING REVENUES, EXPENSES &amp; STATISTICS

## STEAM RAILWAYS OF CANADA

With annual Operating Revenues of \$500,000

For the Month of July 1922.

	1922	1921
<b>OPERATING REVENUES</b>		
Freight	\$22,458,665.22	\$22,341,463.70
Passenger	8,210,422.42	9,261,937.93
Mail	619,643.93	628,216.59
Express	1,207,814.47	1,421,278.46
Other Freight Train	5,971.87	2,157.13
Other Passenger Train	759,909.90	737,303.71
Water Line	338,197.08	399,703.67
All Other	1,485,450.39	1,460,737.87
Total Railway Operating Revenues	35,086,075.30	36,252,799.06
<b>OPERATING EXPENSES</b>		
Maint. of Way & Structures	\$8,474,497.94	\$8,319,490.16
Maint. of Equipment	7,267,976.40	8,106,212.58
Traffic	1,212,285.15	1,031,547.71
Transportation	14,280,082.42	15,319,733.72
Misc. Operations	552,728.48	594,231.07
General	948,085.67	956,136.86
Trans. for Investment	59,554.21	294,201.58
Total Railway Operating Expenses	32,676,101.85	34,033,150.52
<b>OPERATING INCOME</b>		
Net Operating Revenue	\$2,409,973.45	\$2,219,648.54
Railway Tax Accruals	832,620.67	567,988.46
Uncollectable Revenues	1,234.21	788.24
Hire of Equipment	Cr. 169,467.07	Cr. 46,710.29
Joint Facilities Rents	Dr. 150,381.49	Dr. 653,549.30
Operating Income	1,595,204.15	1,044,032.83
<b>OPERATING STATISTICS</b>		
Average Miles of Road Operated	38,805	38,585
No. of Tons Carried (Rev. Fr.)	7,461,932	6,884,548
No. of Tons Carried One Mile (Rev. Fr.)	1,787,836,608	1,701,480,113
No. of Tons Carried (All Fr.)	8,664,726	8,434,816
No. of Tons Carried One Mile (All Fr.)	2,014,002,982	2,003,074,887
No. of Revenue Pass. Carried	4,454,055	4,675,203
No. of Revenue Pass. Carried One Mile	297,885,648	309,380,149
#Freight Train Miles	4,103,854	4,023,948
#Passenger Train Miles	4,182,349	4,144,851
Total Train Miles (Rev. & Non Rev.)	8,290,635	8,551,159
Freight Car Miles-Loaded	90,123,631	84,807,075
Freight Car Miles-Empty	45,271,164	42,957,903
Passenger Train Car Miles	30,320,315	30,232,488
Total Amount of Pay Roll	\$19,539,857.51	\$20,203,607.00
Number of Employees	168,005	160,497
<b>AVERAGES PER MILES OF ROAD OPERATED</b>		
Operating Revenue	\$904.16	\$939.56
Operating Expenses	\$842.06	\$882.03
No. of Tons Moved One Mile (Rev. Fr.)	46,072	44,097
No. of Tons Moved One Mile (All Fr.)	51,901	51,913
<b>#AVERAGES PER FREIGHT TRAIN MILE</b>		
Freight Revenue	\$5.47	\$5.55
No. of Tons of Freight (Rev. Fr.)	435.6	422.8
No. of Tons of Freight (All Fr.)	490.8	497.8
Loaded Freight Cars	22.0	21.1
Empty Freight Cars	11.0	10.7
<b>#AVERAGES PER PASS. TRAIN MILE</b>		
Passenger Train Revenue	\$2.58	\$2.91
Passengers Carried	71.2	74.6
Passenger Cars	7.2	7.3
Average Operating Expenses per train mile	\$3.68	\$3.98
Average Length of Haul (Rev. Fr.) Miles	239.6	247.1
Average Passenger Journey Miles	66.9	66.2
Average Tons per loaded Fr. Car	22.3	23.6
Av. Fr. Receipt per Rev. Ton Miles	1.256¢	1.313¢
Av. Passenger Receipt per Pass. per mile	2.756¢	2.994¢
Ratio of Pay Roll to Operating Revenues	55.7%	55.7%
Ratio of Pay Roll to Operating Expenses	59.8%	59.4%
Ratio of Operating Expenses to Revenues	93.13%	93.88%

#\*Contains a proportion of mixed train miles.



OPERATING REVENUES, EXPENSES & STATISTICS

CANADIAN NATIONAL RY.

(Can. Gov., Can. Northern, Grand Trunk Pac.)

For the Month of July 1922

	1922	1921
<u>OPERATING REVENUES</u>		
Freight	\$5,992,779.52	\$6,052,553.99
Passenger	1,822,711.07	1,994,462.55
Mail	170,928.17	177,546.65
Express	293,195.30	319,250.40
Other Freight Train	3,459.12	1,390.00
Other Passenger Train	227,616.98	237,573.67
Water Line		
All Other	367,086.02	343,591.93
Total Railway Operating Revenues	8,877,776.18	9,126,369.19
<u>OPERATING EXPENSES</u>		
Maint. of Way and Structures	\$2,949,101.15	\$3,033,814.29
Maint. of Equipment	2,509,755.67	2,166,500.56
Traffic	286,437.60	226,206.90
Transportation	4,335,304.98	4,887,682.93
Misc. Operations	210,352.88	179,920.46
General	277,236.43	260,243.25
Trans. for Investment	Cr. 57,410.61	Cr. 293,430.63
Total Railway Operating Expenses	10,510,773.10	10,460,937.76
<u>OPERATING INCOME</u>		
Net Operating Revenue	Dr. \$1,633,001.92	Dr. \$1,334,568.57
Railway Tax Accruals	389,643.73	163,761.17
Uncollectable Revenues		
Hire of Equipment	Dr. 61,447.73	Cr. 58,041.38
Joint Facilities Rents	Dr. 88,403.45	Dr. 662,094.06
Operating Income	Dr. 2,172,501.83	Dr. 2,102,382.42
<u>OPERATING STATISTICS</u>		
Average Miles of Road Operated	17,212.00	17,111.07
No. of Tons Carried (Rev. Fr.)	1,470,345	1,375,816
No. of Tons Carried One Mile (Rev. Fr.)	530,944,903	536,432,968
No. of Tons Carried (All Fr.)	1,856,713	1,929,507
No. of Tons Carried One Mile (All Fr.)	625,527,825	664,021,261
No. of Revenue Pass. Carried	1,083,354	1,132,172
No. of Revenue Pass. Carried One Mile	73,277,490	71,200,271
#Freight Train Miles	1,369,288	1,468,185
#Passenger Train Miles	1,154,725	1,121,745
Total Train Miles (Rev. & Non Rev.)	2,925,999	2,857,655
Freight Car Miles-Loaded	27,172,350	27,602,024
Freight Car Miles-Empty	16,625,007	14,053,932
Passenger Train Car Miles	8,705,046	8,452,671
Total Amount of Pay Roll	\$6,926,822.67	\$7,039,529.05
Number of Employees	62,333	59,643
<u>AVERAGES PER MILES OF ROAD OPERATED</u>		
Operating Revenue	\$515.78	\$533.36
Operating Expenses	\$610.66	\$611.35
No. of Tons Moved One Mile (Rev. Fr.)	30,847	31,350
No. of Tons Moved One Mile (All Fr.)	36,343	38,807
<u>AVERAGES PER FREIGHT TRAIN MILE</u>		
Freight Revenue	\$4.38	\$4.12
No. of Tons of Freight (Rev. Fr.)	387.8	365.4
No. of Tons of Freight (All Fr.)	456.8	452.3
Loaded Freight Cars	19.8	18.8
Empty Freight Cars	12.1	9.6
<u>AVERAGES PER PASS. TRAIN MILE</u>		
Passenger Train Revenue	\$2.18	\$2.43
Passengers Carried	63.5	63.5
Passenger Cars	7.5	7.5
Average Operating Expenses per train mile	\$3.59	\$3.66
Average Length of Haul (Rev. Fr.) Miles	361.1	389.9
Average Passenger Journey Miles	67.6	62.9
Average Tons per loaded Fr. Car	23.0	24.1
Av. Fr. Receipt per Rev. Ton Miles	1.129¢	1.128¢
Av. Passenger Receipt per Pass. per Mile	2.437¢	2.801¢
Ratio of Pay Roll to Operating Revenues	78.0%	77.1%
Ratio of Pay Roll to Operating Expenses	65.9%	67.3%
Ratio of Operating Expenses to Revenues	118.39%	114.62%

# - Contains a proportion of mixed train miles.



## OPERATING REVENUES, EXPENSES &amp; STATISTICS

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

For the Month of July 1922

1922

1921

## OPERATING REVENUES

Freight	\$8,612,119.21	\$9,225,984.70
Passenger	3,700,149.41	4,385,545.11
Mail	310,400.98	304,315.46
Express	576,454.63	683,006.05
Other Freight Train	476.19	492.42
Other Passenger Train	455,556.13	424,371.35
Water Line	279,339.99	333,894.23
All Other	710,848.85	741,243.47
Total Railway Operating Revenues	14,645,345.39	16,098,852.79

## OPERATING EXPENSES

Maint. of Way & Structures	\$ 3,316,599.32	\$ 3,325,741.31
Maint. of Equipment	2,529,891.70	3,366,798.85
Traffic	648,306.63	583,565.86
Transportation	5,657,085.52	6,132,213.73
Misc. Operations	260,044.34	283,860.21
General	323,971.82	319,783.14
Trans. for Investment		
Total Railway Operating Expenses	12,735,899.33	14,011,963.10

## OPERATING INCOME

Net Operating Revenue	\$1,909,446.06	\$2,086,889.69
Railway Tax Accruals	248,408.35	231,184.50
Uncollectable Revenues		
Hire of Equipment	Cr. 241,505.21	Cr. 172,341.85
Joint Facilities Rents	Cr. 34,582.93	Cr. 56,155.57
Operating Income	1,937,125.90	2,064,202.61

## OPERATING STATISTICS

Average Miles of Road Operated	13,877.2	13,785.8
No. of Tons Carried (Rev. Fr.)	2,121,181	1,926,646
No. of Tons Carried One Mile (Rev. Fr.)	680,369,209	680,923,696
No. of Tons Carried (All Fr.)	2,601,107	2,534,904
No. of Tons Carried One Mile (All Fr.)	781,396,831	825,796,633
No. of Revenue Pass. Carried	1,583,926	1,696,641
No. of Revenue Pass. Carried One Mile	137,279,280	151,204,846
#Freight Train Miles	1,506,945	1,393,166
#Passenger Train Miles	1,878,140	1,887,692
Total Train Miles (Rev. & Non Rev.)	3,385,085	3,280,858
Freight Car Miles-Loaded	34,872,640	32,582,837
Freight Car Miles-Empty	16,230,796	14,041,995
Passenger Train Car Miles	14,109,282	14,265,971
Total Amount of Pay Roll	\$7,448,540.54	\$7,535,090.24
Number of Employees	63,579	57,924

## AVERAGE PER MILES OF ROAD OPERATED

Operating Revenue	\$1,055.35	\$1,167.79
Operating Expenses	\$ 917.76	\$1,016.41
No. of Tons Moved One Mile (Rev. Fr.)	49,028	49,393
No. of Tons Moved One Mile (All Fr.)	56,308	59,902

## AVERAGES PER FREIGHT TRAIN MILE

Freight Revenue	\$5.72	\$6.65
No. of Tons of Freight (Rev. Fr.)	451.5	488.8
No. of Tons of Freight (All Fr.)	518.5	592.7
Loaded Freight Cars	23.1	23.4
Empty Freight Cars	10.8	10.1

## AVERAGES PER PASS. TRAIN MILE

Passenger Train Revenue	\$2.68	\$3.07
Passengers Carried	73.1	80.1
Passenger Cars	7.5	7.6
Average Operating Expenses per train mile	\$3.58	\$4.16
Average Length of Haul (Rev. Fr.) Miles	320.8	353.4
Average Passenger Journey Miles	86.7	89.1
Average Tons per loaded Fr. Car	22.4	25.3
Fr. Receipt per Rev. Ton Miles	1.266	1.355
Passenger Receipt per Pass. per mile	2.695	2.900
Ratio of Pay Roll to Operating Revenues	50.9%	46.8%
Ratio of Pay Roll to Operating Expenses	58.5%	53.8%
Ratio of Operating Expenses to Revenues	86.96%	87.04%

# - Contains a proportion of mixed train miles.





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## OPERATING REVENUES EXPENSES &amp; STATISTICS

## GRAND TRUNK RAILWAY

For the Month of July 1922.

	1922	1921
<u>OPERATING REVENUES</u>		
Freight	\$4,945,492.00	\$4,143,189.21
Passenger	1,566,586.00	1,773,263.72
Mail	95,000.00	98,994.87
Express	237,000.00	330,994.71
Other Freight Train		
Other Passenger Train	58,200.00	42,535.44
Water Line		
All Other	261,800.00	199,084.31
Total Railway Operating Revenues	7,164,085.00	6,588,059.26
<u>OPERATING EXPENSES</u>		
Maint. of Way and Structures	\$1,323,772.21	\$1,024,091.74
Maint. of Equipment	1,242,454.97	1,521,224.20
Traffic	202,993.22	149,098.19
Transportation	2,687,942.26	2,672,550.51
Misc. Operations	37,697.17	64,060.49
General	216,876.26	241,434.25
Trans. for Investment	Dr. 1,994.42	Dr. 625.26
Total Railway Operating Expenses	5,709,651.67	5,671,834.12
<u>OPERATING INCOME</u>		
Net Operating Revenue	\$1,454,433.33	916,225.14
Railway Tax Accruals	110,850.00	106,669.00
Uncollectable Revenues	899.27	602.69
Hire of Equipment	Cr. 211,686.50	Cr. 86,524.79
Joint Facilities Rents	Cr. 41,205.84	Cr. 80,915.73
Operating Income	1,595,576.40	976,393.97
<u>OPERATING STATISTICS</u>		
Average Miles of Road Operated	3,612	3,612
No. of Tons Carried (Rev. Fr.)	1,989,471	1,632,661
No. of Tons Carried One Mile (Rev. Fr.)	380,035.124	290,228.314
No. of Tons Carried (All Fr.)	2,225,387	1,939,671
No. of Tons Carried One Mile (All Fr.)	403,675.523	313,437.776
No. of Revenue Pass. Carried	1,103,688	1,161,746
No. of Revenue Pass. Carried One Mile	52,730.671	53,379.862
#Freight Train Miles	760,280	749,469
#Passenger Train Miles	712,681	710,027
Total Train Miles (Rev. & Non Rev.)	1,472,961	1,462,888
Freight Car Miles-Loaded	16,463,607	14,409,444
Freight Car Miles-Empty	7,277,224	8,747,511
Passenger Train Car Miles	4,369,802	4,405,357
Total Amount of Pay Roll	\$3,602,725.88	\$3,838,827.78
Number of Employees	30,263	29,788
<u>AVERAGES PER MILE OF ROAD OPERATED</u>		
Operating Revenue	\$1,983.41	\$1,823.93
Operating Expenses	\$1,580.75	\$1,570.27
No. of Tons Moved One Mile (Rev. Fr.)	105,215	80,351
No. of Tons Moved One Mile (All Fr.)	111,760	86,777
<u>AVERAGES PER FREIGHT TRAIN MILE</u>		
Freight Revenue	\$6.51	\$5.53
No. of Tons of Freight (Rev. Fr.)	499.9	387.2
No. of Tons of Freight (All Fr.)	531.0	418.2
Loaded Freight Cars	21.7	19.2
Empty Freight Cars	9.6	11.7
<u>AVERAGES PER PASS. TRAIN MILE</u>		
Passenger Train Revenue	\$2.75	\$3.16
Passengers Carried	74.0	75.2
Passenger Cars	6.1	6.2
Average Operating Expenses per train mile	\$3.86	\$3.87
Average Length of Haul (Rev. Fr.) Miles	191.0	177.8
Average Passenger Journey Miles	47.8	45.9
Average Tons per loaded Fr. Car	24.5	21.8
Av. Fr. Receipt per Rev. Ton Miles	1.301¢	1.428¢
Av. Passenger Receipt per Pass. per mile	2.971¢	3.321¢
Ratio of Pay Roll to Operating Revenues	50.3%	58.3%
Ratio of Pay Roll to Operating Expenses	63.1%	67.7%
Ratio of Operating Expenses to Revenue	79.7%	86.1%

#- Contains a proportion of mixed train miles.