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DOMINION BUREAU OF STATISTICS  
TRANSPORTATION BRANCH

OPERATING REVENUES, EXPENSES AND STATISTICS

of

RAILWAYS

With Annual Operating Revenues of \$500,000

For

AUGUST

1922

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

Minister of Trade and Commerce.

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OTTAWA

1922

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DOMINION BUREAU OF STATISTICS  
TRANSPORTATION BRANCH  
OTTAWA

Dominion Statistician, R.H. Coats, B.A., F.S.S.  
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OPERATING REVENUES, EXPENSES & STATISTICS

STEAM RAILWAYS OF CANADA

WITH ANNUAL OPERATING REVENUES OF \$500,000.

For the Month of August 1922

Freight rates on grain and grain products west of Port Arthur and Fort William were reduced July 6th between 20 and 25 per cent. Effective August 1st rates on basic commodities such as forest products, building materials, iron, etc., were reduced about 6 per cent and all increases on coal granted September 13th, 1920 were removed. The full effect of these reductions was not felt till September and October when the heavy movement of grain and coal began, although the railways show a lower average revenue per ton mile for August 1922 than for 1921. The reductions in freight rates effective December 1, 1921 would also affect this average.

The railways as a whole showed an increase in revenue freight carried of 1,205,955 ton miles, or .06 per cent but a decrease in freight revenues of \$1,430,475, or 5.6 per cent with an average freight receipt per ton mile of 1.259 cents as against 1.335 cents in August 1921. Passenger traffic also increased 7.4 per cent but passenger revenues fell off \$632,694 or 7 per cent, with no general change in passenger rates. The average receipts per passenger per mile was 2.396 cents as against 2.767 cents in August 1921. Increased number of harvesters, about 5,000 over last year, at cheap rates and long hauls would have some effect on this average, but other factors also affected it. Total revenues declined \$2,507,257, or 6.2 per cent while expenses were reduced \$1,628,238, or 4.7 per cent, decreasing the net revenues by \$879,017, and increasing the operating ratio from 87.07 per cent in August 1921 to 88.54 per cent. Some reductions in rates of pay of maintenance of way employees on July 16th and of shop craft employees August 1st also some changes in rates of pay of clerks, freight handlers, station employees, etc. were also made in August. The rates on all roads have not been finally settled, so the net affect on the total pay roll cannot be stated. The total pay roll showed an increase of \$95,279, or .47 per cent but this month's pay roll included \$54,255 of back pay. There was practically no change in train loading although car loading showed a decrease of 2.8 tons. Average passenger train revenue showed a decrease of 26 cents or 9 per cent per train mile although the number of passengers carried increased 5.1 per train mile.

CANADIAN NATIONAL RAILWAYS showed a considerable increase in passenger miles, viz: 21.0 per cent, although the number of passengers carried increased only 1.4 per cent and passenger revenues decreased 3.8 per cent with no general change in rates. There was a considerable increase in the number of harvesters carried at low rates this year, which would have this effect and was undoubtedly the chief cause of this paradox. Freight traffic showed a decrease of 2.4 per cent and freight revenue a decrease of 10.5 per cent. The effect of the reductions in freight rates December 1st, 1921, July 6 and August 1st, 1922 were being felt, the average freight receipts per ton decreasing from 1.242 cents in August 1921 to 1.140 cents this year. Light coal movement from both Alberta and the head of the lakes, without doubt, appreciably affected the revenue ton miles, which decreased 2.4 per cent.





Train loading increased 33.7 net tons and with 5.9 per cent less freight, freight train miles decreased 12.8 per cent. Passenger train miles also showed a decrease of 5.4 per cent and transportation expenses were reduced \$582,140 or 11.8 per cent. Total revenues decreased \$805,370, or 7.8 per cent while operating expenses were practically unchanged from August 1921, resulting <sup>in an increase</sup> in the operating deficit of \$812,742. The pay roll decreased \$68,199 although this year's figures included \$54,255 of back pay, which means a reduction of \$122,454 in the monthly pay roll with an increase of 1,700 employees.

CANADIAN PACIFIC RAILWAYS reduced their operating ratio from 82.33 per cent in August 1921 and 86.96 per cent in July 1922 to 81.96 per cent. Revenues showed a decrease from last year of 7.6 per cent but this was a result of the reductions in freight and passenger rates, which became effective December 1st, 1921 and July 6th and August 1st. Freight traffic increased 17,357,796 revenue ton miles or 2.3 per cent and passenger traffic increased 3.4 per cent. They both showed greater increases this year than in 1921 over the July records but were below the records made in August 1920. Expenses were reduced \$1,154,171 or 8 per cent, maintenance of way and structures showing a reduction of \$392,515, or 11.2 per cent and maintenance of equipment a reduction of \$617,826, or 17.8 per cent. Transportation expenses were reduced 2.5 per cent with an increase in total train miles of 5 per cent. Average train loading and average car loading showed decrease of 40 tons and 4.1 tons respectively. The pay roll increased \$229,378, or 3 per cent with an increase of 5.5 per cent in the number of employees.

GRAND TRUNK RAILWAY - Freight traffic showed an increase of 3.6 per cent and passenger traffic an increase of 4.8 per cent but due to reductions in rates, freight revenues increased only \$62,722, or 1.2 per cent, passenger revenues decreased \$22,089, or 1.3 per cent and total revenues decreased \$112,978 or 1.5 per cent.

Although traffic was heavier, freight and passenger train miles were reduced 3.0 per cent and 4.5 per cent respectively and transportation expenses were reduced \$185,170, or 6.2 per cent. The average load per car showed a decrease of 1.7 tons but the average load per train showed an increase of 25.8 net tons. Maintenance of way and structures increased \$92,000, maintenance of equipment increased \$13,073, but total operating expenses were reduced \$3,553 or .06 per cent giving an operating ratio of 83.04 per cent as against 81.83 per cent last year.

4/11/22-III.





## OPERATING REVENUES, EXPENSES &amp; STATISTICS

## STEAM RAILWAYS OF CANADA

With annual Operating Revenues of \$500,000

For the Month of August 1922

	1922	1921
<b>OPERATING REVENUES</b>		
Freight	\$23,947,412.90	\$25,377,888.74
Passenger	9,102,902.29	9,785,596.68
Mail	605,757.40	635,129.36
Express	1,327,284.40	1,605,805.14
Other Freight Train	1,973.04	948.78
Other Passenger Train	799,656.51	777,687.04
Water Line	362,773.93	412,358.80
All Other	1,518,274.90	1,577,878.57
Total Railway Operating Revenues	37,666,035.37	40,173,293.11
<b>OPERATING EXPENSES</b>		
Maint. of Way and Structures	\$8,647,341.55	\$9,107,995.01
Maint. of Equipment	7,284,799.00	7,977,356.01
Traffic	1,047,675.44	918,417.31
Transportation	14,877,216.03	15,813,128.67
Misc. Operations	610,641.62	617,650.47
General	957,035.26	855,004.21
Trans. for Investment	Cr. 74,229.22	Cr. 310,833.43
Total Railway Operating Expenses	33,350,479.68	34,978,718.25
<b>OPERATING INCOME</b>		
Net Operating Revenues	\$4,315,555.69	\$5,194,574.86
Railway Tax Accruals	553,285.52	942,016.61
Uncollectable Revenues	1,248.23	699.87
Hire of Equipment	Cr. 322,698.86	Cr. 43,588.17
Joint Facilities Rents	Dr. 87,303.42	Dr. 158,876.87
Operating Income	3,996,417.38	4,136,569.68
<b>OPERATING STATISTICS</b>		
Average Miles of Road Operated	38,803	38,585
No. of Tons Carried (Rev. Fr.)	7,872,209	7,811,093
No. of Tons Carried One Mile (Rev. Fr.)	1,902,073,254	1,900,867,299
No. of Tons Carried (All Fr.)	9,265,705	9,539,521
No. of Tons Carried One Mile (All Fr.)	2,182,602,431	2,246,455,693
No. of Revenue Pass. Carried	4,576,925	4,724,008
No. of Revenue Pass. Carried One Mile	379,930,243	353,693,280
#Freight Train Miles	4,448,785	4,569,514
#Passenger Train Miles	4,295,746	4,244,168
Total Train Miles (Rev. & Non Rev.)	9,314,837	9,230,267
Freight Car Miles-Loaded	99,376,355	90,613,513
Freight Car Miles-Empty	38,234,232	52,348,364
Passenger Train Car Miles	33,219,729	32,156,895
Total amount of Pay Roll	\$20,451,935.39	\$20,356,655.86
Number of Employees	169,218	164,688
<b>AVERAGES PER MILE OF ROAD OPERATED</b>		
Operating Revenue	\$970.70	\$1,041.16
Operating Expenses	\$859.48	\$906.54
No. of Tons Moved One Mile (Rev. Fr.)	49,019	49,264
No. of Tons Moved One Mile (All Fr.)	56,248	58,221
<b>#AVERAGES PER FREIGHT TRAIN MILE</b>		
Freight Revenue	\$5.38	\$5.55
No. of Tons of Fr. (Rev. Fr.)	427.5	416.0
No. of Tons of Fr. (All Fr.)	490.6	491.6
Loaded Freight Cars	22.3	19.8
Empty Freight Cars	8.6	11.5
<b>#AVERAGES PER PASS. TRAIN MILE</b>		
Passenger Train Revenue	\$2.76	\$3.02
Passengers Carried	88.4	83.3
Passenger Cars	7.7	7.6
Average Op. Expenses per train mile	\$3.58	\$3.79
Average Length of Haul (Rev. Fr.) Miles	241.6	243.4
Average Passenger Journey Miles	83.0	74.9
Average Tons per loaded Fr. Car	22.0	24.8
Av. Fr. Receipt per Rev. Ton Mile	1.259¢	1.335¢
Av. Passenger Receipt per Pass. per mile	2.39¢	2.76¢
Ratio of Pay Roll to Op. Revenues	54.3%	50.7%
Ratio of Pay Roll to Op. Expenses	61.3%	58.1%
Ratio of Op. Expenses to Revenues	88.54%	87.07%

# -Contains a proportion of mixed train miles.





## OPERATING REVENUES, EXPENSES &amp; STATISTICS

CANADIAN NATIONAL RY.  
(Can. Gov., Can. Northern, Grand Trunk Pac.)

For the Month of August 1922

1922

1921

OPERATING REVENUES

Freight	\$6,256,668.52	\$6,987,982.45
Passenger	2,082,195.30	2,164,449.33
Mail	176,777.73	181,179.74
Express	326,253.62	395,269.29
Other Freight Train	1,761.36	
Other Passenger Train	244,370.66	239,954.81
Water Line		
All Other	481,752.36	406,314.47
Total Railway Operating Revenues	9,569,779.55	10,375,150.09

OPERATING EXPENSES

Maint. of Way and Structures	\$3,015,207.44	\$3,101,058.00
Maint. of Equipment	2,334,140.91	2,047,177.87
Traffic	220,363.85	204,892.95
Transportation	4,362,710.62	4,944,850.65
Misc. Operations	230,083.25	216,494.42
General	306,865.74	190,839.90
Trans. for Investment	69,745.04	313,058.55
Total Railway Operating Expenses	10,399,626.77	10,392,255.24

OPERATING INCOME

Net Operating Revenue	Dr. \$829,847.22	\$17,105.15
Railway Tax Accruals	107,436.40	132,005.14
Uncollectable Revenues	.25	1.00
Hire of Equipment	Cr. 51,613.25	Cr. 68,832.16
Joint Facilities Rents	Dr. 38,676.70	28,073.13
Operating Income	Dr. 924,347.32	Dr. 108,352.26

OPERATING STATISTICS

Average Miles of Road Operated	17,212.00	17,111.07
No. of Tons Carried (Rev. Fr.)	1,568,911	1,510,343
No. of Tons Carried One Mile (Rev. Fr.)	548,797.449	562,431,503
No. of Tons Carried (All Fr.)	1,931,683	2,124,587
No. of Tons Carried One Mile (All Fr.)	664,145.423	705,868,954
No. of Revenue Pass. Carried	1,197,891	1,181,026
No. of Revenue Pass. Carried One Mile	98,837,766	81,660,625
# Freight Train Miles	1,436,225	1,646,761
# Passenger Train Miles	1,225,438	1,162,401
Total Train Miles (Rev. & Non Rev.)	3,052,979	3,088,552
Freight Car Miles-Loaded	28,863,051	28,178,006
Freight Car Miles-Empty	12,143,653	17,904,218
Passenger Train Car Miles	9,883,351	8,891,759
Total amount of Pay Roll	7,207,218.01	7,275,417.42
Number of Employees	63,068	61,368

AVERAGE PER MILE OF ROAD OPERATED

Operating Revenue	\$555.99	\$606.34
Operating Expenses	\$604.21	\$607.34
No. of tons Moved One Mile (Rev. Fr.)	31,885	32,869
No. of Tons Moved One Mile (All Fr.)	38,586	41,252

# AVERAGES PER FREIGHT TRAIN MILE

Freight Revenue	\$4.36	\$4.24
No. of Tons of Fr. (Rev. Fr.)	382.1	341.5
No. of Tons of Fr. (All Fr.)	462.4	428.7
Loaded Freight Cars	20.1	17.1
Empty Freight Cars	8.5	10.9

# AVERAGES PER PASS. TRAIN MILE

Passenger Train Revenue	\$2.31	\$2.56
Passengers Carried	80.7	70.3
Passenger Cars	8.1	7.6
Average Op. Expenses per train miles	\$3.41	\$3.36
Average Length of Haul (Rev. Fr.) Miles	349.8	372.3
Average Passenger Journey Miles	82.5	69.1
Average Tons per loaded Fr. Car	23.0	25.1
Av. Fr. Receipt per Rev. Ton Mile	1.140%	1.242%
Av. Passenger Receipt per Pass. per Mile	2.107%	2.651%
Ratio of Pay Roll to Op. Revenues	75.3%	70.1%
Ratio of Pay Roll to Op. Expenses	69.3%	70.0%
Ratio of Op. Expenses to Revenues	108.67%	100.16%

# - Contains a proportion of mixed train miles.





## OPERATING REVENUES, EXPENSES &amp; STATISTICS

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

For the Month of August 1922.

	1922	1921
<b>OPERATING REVENUES</b>		
Freight	\$9,552,614.40	\$10,102,763.96
Passenger	4,147,575.32	4,704,915.89
Mail	292,806.35	314,931.36
Express	622,887.10	789,154.02
Other Freight Train	268.68	631.19
Other Passenger Train	493,042.63	459,117.84
Water Line	299,498.30	346,060.30
All Other	691,446.54	713,717.91
Total Railway Operating Revenues	16,100,139.32	17,431,292.47
<b>OPERATING EXPENSES</b>		
Maint. of Way and Structures	\$3,118,903.19	\$3,511,418.94
Maint. of Equipment	2,855,886.25	3,473,712.57
Traffic	608,252.84	548,607.75
Transportation	6,061,929.45	6,218,891.49
Misc. Operations	265,271.71	281,070.40
General	286,273.28	316,986.94
Trans. for Investment		
Total Railway Operating Expenses	13,196,516.72	14,350,688.09
<b>OPERATING INCOME</b>		
Net Operating Revenue	\$2,903,622.60	\$3,080,604.38
Railway Tax Accruals	268,507.50	637,553.36
Uncollectable Revenues		
Hire of Equipment	Cr. 260,560.20	Cr. 131,573.69
Joint Facilities Rents	Cr. 38,798.45	Cr. 54,556.43
Operating Income	2,934,473.75	2,629,181.14
<b>OPERATING STATISTICS</b>		
Average Miles of Road Operated	13,877.2	13,785.8
No. of Tons Carried (Rev. Fr.)	2,349,629	2,230,523
No. of Tons Carried One Mile (Rev. Fr.)	763,001,924	745,644,128
No. of Tons Carried (All Fr.)	2,931,047	2,909,526
No. of Tons Carried One Mile (All Fr.)	892,283,976	908,061,151
No. of Revenue Pass. Carried	1,609,338	1,646,804
No. of Revenue Pass. Carried One Mile	186,816,856	180,757,718
#Freight Train Miles	1,686,922	1,596,016
#Passenger Train Miles	1,957,019	1,932,341
Total Train Miles (Rev. & Non Rev.)	3,791,942	3,620,092
Freight Car Miles-Loaded	39,795,570	34,252,817
Freight Car Miles-Empty	14,292,767	19,797,469
Passenger Train Car Miles	15,721,940	15,479,882
Total Amount of Pay Roll	7,810,797.08	7,581,419.08
Amount of Employees	63,462	60,174
<b>AVERAGES PER MILE OF ROAD OPERATED</b>		
Operating Revenue	\$1,160.18	\$1,264.44
Operating Expenses	\$ 950.95	\$1,040.98
No. of Tons Moved One Mile (Rev Fr.)	549.8	540.9
No. of Tons Moved One Mile (All Fr.)	643.0	658.7
<b>AVERAGES PER FREIGHT TRAIN MILE</b>		
Freight Revenue	\$5.66	\$6.33
No. of Tons of Fr. (Revenue Fr.)	452.3	467.2
No. of Tons of Fr. (All Fr.)	528.9	568.9
Loaded Freight Cars	23.6	21.5
Empty Freight Cars	8.5	12.4
<b>AVERAGES PER PASS. TRAIN MILE</b>		
Passenger Train Revenue	\$2.84	\$3.24
Passengers Carried	95.5	93.5
Passenger Cars	8.0	8.0
Average Op. Expenses per Train Mile	\$3.48	\$3.96
Average Length of Haul (Rev. Fr.) Miles	324.7	334.3
Average Passenger Journey, Miles	116.1	109.8
Average Tons per loaded Fr. Car	22.4	26.5
Av. Fr. Receipt per Rev. Ton Mile	1.252¢	1.354¢
Av. Passenger Receipt per Pass. Per Mile	2.220¢	2.603¢
Ratio of Pay Roll to Op. Revenues	48.5%	43.5%
Ratio of Pay Roll to Op. Expenses	59.2%	52.8%
Ratio of Op. Expenses to Revenues	81.96%	82.33%

# - Contains a proportion of mixed train miles.





## OPERATING REVENUES, EXPENSES &amp; STATISTICS

## GRAND TRUNK RAILWAY

For the Month of August 1922.

	1922	1921
<u>OPERATING REVENUES</u>		
Freight	\$5,094,233.00	\$5,031,510.69
Passenger	1,712,707.00	1,734,796.26
Mail	90,000.00	95,076.24
Express	261,400.00	333,591.97
Other Freight Train		
Other Passenger Train	40,000.00	41,269.82
Water Line		
All Other	185,000.00	260,073.47
Total Railway Operating Revenues	7,383,340.00	7,496,318.45
<u>OPERATING EXPENSES</u>		
Maint. of Way and Structures	\$1,624,453.20	\$1,532,452.69
Maint. of Equipment	1,300,901.14	1,287,827.18
Traffic	154,993.36	96,106.75
Transportation	2,796,186.25	2,981,356.56
Misc. Operation	61,599.98	48,548.65
General	195,686.46	185,822.20
Trans. for Investment	Cr. 2,979.65	2,280.33
Total Railway Operating Expenses	6,130,840.74	6,134,394.36
<u>OPERATING INCOME</u>		
Net Operating Revenue	\$1,252,499.26	\$1,361,924.09
Railway Tax Accruals	110,850.00	106,669.00
Uncollectable Revenues	907.66	669.60
Hire of Equipment	Cr. 258,444.71	Cr. 127,911.19
Joint Facilities Rents	Cr. 41,518.37	Cr. 44,905.44
Operating Income	1,440,704.68	1,427,402.12
<u>OPERATING STATISTICS</u>		
Average Miles of Road Operated	3,612	3,612
No. of Tons Carried (Rev. Fr.)	2,126,488	1,962,850
No. of Tons Carried One Mile (Rev. Fr.)	380,356.100	367,271.971
No. of Tons Carried (All Fr.)	2,467,763	2,289,309
No. of Tons Carried One Mile (All Fr.)	409,701.444	399,591.950
No. of Revenue Pass. Carried	1,137,531	1,158,946
No. of Revenue Pass. Carried One Mile	58,294.078	55,608.869
#Freight Train Miles	853,948	880,148
#Passenger Train Miles	689,004	721,610
Total Train Miles (Rev. & Non Rev.)	1,544,393	1,603,834
Freight Car Miles-Loaded	18,567,676	16,775,877
Freight Car Miles-Empty	7,507,258	9,124,233
Passenger Train Car Miles	4,428,820	4,514,703
Total amount of Pay Roll	\$3,843,991.56	\$3,757,542.20
Number of Employees	30,724	30,426
<u>AVERAGES PER MILE OF ROAD OPERATED</u>		
Operating Revenue	\$2,044.11	\$2,075.39
Operating Expenses	\$1,697.35	\$1,698.34
No. of Tons Moved One Mile (Rev. Fr.)	105,303	101,681
No. of Tons Moved One Mile (All Fr.)	113,428	110,629
<u>#AVERAGES PER FREIGHT TRAIN MILE</u>		
Freight Revenue	\$5.97	\$5.72
No. of Tons of Fr. (Revenue)	445.4	417.3
No. of Tons of Fr. (All Fr.)	479.8	454.0
Loaded Freight Cars	21.7	19.1
Empty Freight Cars	8.8	10.4
<u>#AVERAGES PER PASS. TRAIN MILE</u>		
Passenger Train Revenue	\$3.05	\$3.06
Passengers Carried	84.6	77.1
Passenger Cars	6.4	6.3
Average Operating Expenses per train mile	\$3.97	\$3.82
Average Length of Haul (Rev. Fr.) Miles	178.9	187.1
Average Passenger Journey, Miles	51.2	47.9
Average Tons per loaded Fr. Car	22.1	23.8
Av. Fr. Receipt per Rev. Ton Mile	1.339¢	1.369¢
Av. Passenger Receipt per Pass. per mile	2.938¢	3.119¢
Ratio of Pay Roll to Op. Revenues	52.1%	50.1%
Ratio of Pay Roll to Op. Expenses	62.7%	61.3%
Ratio of Op. Expenses to Revenues	83.04%	81.83%

#-Contains a proportion of mixed train miles.



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