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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

DECEMBER

1923

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Published by Authority of the Hon. Thos. A. Low, M. P.,

Minister of Trade and Commerce.

+ + +

OTTAWA

1924

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DOMINION BUREAU OF STATISTICS

TRANSPORTATION BRANCH

OTTAWA

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

OPERATING REVENUES, EXPENSES & STATISTICS

STEAM RAILWAYS OF CANADA

WITH ANNUAL OPERATING REVENUES OF \$500,000.

For the Month of December, 1923

The railways as a whole showed an increase in freight revenue of \$2,830,044, or 10 per cent for an increase of 21.8 per cent in revenue ton miles and an increase in pass. revenue of \$375,127, or 5.3 per cent for an increase of 10.5 per cent in passenger miles. Total revenues were increased by \$3,208,827, or 7.9 per cent and with cuts in maintenance of equipment expenses, operating expenses were reduced by \$2,445,681, or 6.5 per cent.

Revenue freight traffic density showed an increase of 21 per cent and passenger traffic also increased in density 10 per cent which aided in heavier loading of freight trains by 71.4 net tons and 4.5 cars and increasing revenues per passenger train mile. The more open weather during December 1923 was undoubtedly a factor in this improvement.

The average length of haul for revenue freight increased from 350.2 miles to 400 miles and the average freight receipts per ton mile decreased from .379 cent for December, 1922 to .794 cent which is the lowest monthly average recorded since these reports were inaugurated for January, 1920.

CANADIAN NATIONAL RAILWAYS showed a net revenue for December of \$2,760,625 as against a deficit in 1922 of \$3,472,129, or a betterment in operating results of \$ 6,232,754.

Freight and passenger traffic both showed substantial increases and total operating revenues were increased by \$1,268,593, or 6.9 per cent. The large difference was in maintenance expenses. Maintenance of way and structures expenses were reduced by \$776,233 and maintenance of equipment by \$3,475,551. Transportation expenses were also reduced by \$1,244,510 despite the increased traffic and the total pay roll showed a reduction of \$212,436, or 2.0 per cent with a decrease in the average number of employees of 3,340, or 3.8 per cent. The reduction in total operating expenses of \$4,964,161, or 22.8 per cent reduced the operating ratio from 118.95 per cent for December 1922 to 85.91 per cent.

Each division of the lines in the United States also showed increased net operating revenues, increasing the total net operating revenues for the month by \$6,519,364.

For the year 1923 Canadian lines showed an increase in operating revenues of \$13,515,831, or 6.7 per cent and a reduction in operating expenses of \$651,265. The lines in the United States increased revenues by \$7,351,599 and increased operating expenses by \$4,168,844. The increase in net operating revenues was \$14,167,096 for the Canadian lines and \$3,182,756 for the United States lines, or \$17,349,852 for the entire system.

CANADIAN PACIFIC RAILWAYS, Each month since July, have shown a lower operating ratio than for the corresponding month in 1922. For December it was 73.54 per cent as against 74.08 per cent in 1922.

Operating revenues showed an increase of \$1,844,797, or 10.7 per cent although revenue ton miles were increased 31.4 per cent. The greater volume of wheat moved undoubtedly accounted for the lowering of the average receipts per ton mile from .853 cents in 1922 to .746 cents. Wheat loaded on cars in the prairie provinces was almost double the quantity loaded during December, 1922.

Operating expenses increased \$1,263,759, or 9.9 per cent and net operating revenues were increased by \$581,037. Maintenance of way and structures expenses were increased by \$1,009,727 and maintenance of equipment, by \$307,347 whereas transportation expenses were reduced \$120,834 despite the increased traffic. The pay roll showed an increase of \$238,320, or 3.4 per cent and the number of employees, an increase of 3,117, or 5.7 per cent.

The December data quite clearly show the effect on revenues of a great volume of low class freight. Despite the various general increases in rates on commodities other than grain since 1913, the average receipts per ton mile for that year (.758¢) was higher than the monthly average for December (.746¢) on this system. The greater traffic density, however, allowed heavier average loading of trains.

OPERATING REVENUES, EXPENSES & STATISTICS

STEAM RAILWAYS OF CANADA

With Annual Operating Revenues of \$500,000

For the Month of December, 1923

	1923	1922
<u>OPERATING REVENUES</u>		
Freight	\$31,137,271.69	\$28,307,227.
Passenger	7,397,638.92	7,022,511.
Mail	777,408.27	646,337.
Express	2,043,689.01	2,252,848.
Other Freight Train	Dr. 3,367.40	11,452.5
Other Passenger Train	479,622.18	433,954.3
Water Line	159,605.87	198,667.5
All Other	1,581,462.15	1,491,502.5
Total Railway Operating Revenues	43,573,330.69	40,364,502.90
<u>OPERATING EXPENSES</u>		
Maint. of Way & Structures	\$5,532,990.28	\$5,168,936.66
Maint. of Equipment	8,001,199.56	10,336,856.52
Traffic	1,662,737.00	1,183,928.01
Transportation	18,592,409.68	19,683,794.80
Misc. Operations	564,870.75	556,439.60
General	1,172,931.65	1,028,269.90
Trans. for Investment	Cr. 110,292.34	Cr. 95,697.00
Total Railway Operating Expenses	35,416,846.58	37,862,528.57
<u>OPERATING INCOME</u>		
Net Operating Revenue	\$8,156,484.11	\$2,501,974.33
Railway Tax Accruals	1,771,783.32	1,751,446.38
Uncollectable Revenues	1,569.10	8,743.39
Hire of Equipment	Cr. 399,938.75	Cr. 249,557.87
Joint Facilities Rents	Dr. 83,764.43	Dr. 93,427.
Operating Income	6,699,306.01	897,915.0
<u>OPERATING STATISTICS</u>		
Average Miles of Road Operated	38,497	38,457
No. of Tons Carried (Rev.Fr.)	9,809,060	9,200,577
No. of Tons Carried One Mile " "	3,923,708,638	3,222,123,497
No. of Tons Carried (All Fr.)	11,148,490	10,998,811
No. of Tons Carried One Mile " "	4,209,733,365	3,560,481,563
No. of Revenue Passengers Carried	3,633,476	3,614,481
No. of Rev. Pass. Carried One Mile	252,596,616	228,529,567
Freight Train Miles	6,502,706	6,181,755
Passenger Train Miles	3,815,287	3,767,096
Total Train Miles (Rev. & Non Rev.)	10,445,888	10,097,106
Freight Car Miles-Loaded	141,120,545	125,845,307
Freight Car Miles-Empty	87,214,743	62,961,157
Passenger Train Car Miles	27,454,412	26,177,258
Total Amount of Pay Roll	\$19,281,388.86	\$19,034,846.57
Number of Employees	154,343	153,821
<u>DAILY AVERAGES PER MILE OF ROAD OPERATED</u>		
Operating Revenue	\$36.51	\$33.86
Operating Expenses	\$29.68	\$31.76
No. of Tons Moved One Mile (Rev.Fr.)	3,288	2,703
No. of Tons Moved One Mile (All Fr.)	3,527	2,987
No. of Rev. Pass. Carried One Mile	212	192
<u>AVERAGES PER FREIGHT TRAIN MILE</u>		
Freight Revenue	\$4.79	\$4.58
No. of Tons of Freight (Rev.Fr.)	603.4	521.2
No. of Tons of Freight (All Fr.)	647.4	576.0
Loaded Freight Cars	21.7	20.4
Empty Freight Cars	13.4	10.2
<u>AVERAGES PER PASSENGER TRAIN MILE</u>		
Passenger Train Revenue	\$2.80	\$2.75
Passengers Carried	66.2	60.7
Passenger Cars	7.2	6.9
Average Operating Expenses per train mile	\$3.39	\$3.75
Average Length of Haul (Rev.Fr.) Miles	400.0	350.2
Average Passenger Journey Miles	69.5	63.2
Average Tons per Loaded Fr. Car	29.8	28.3
Av. Fr. Receipt per Rev. Ton Mile	.794¢	.879¢
Av. Passenger Receipt per Pass. per Mile	2.929¢	3.072¢
Ratio of Pay Roll to Operating Revenues	44.3%	47.2%
Ratio of Pay Roll to Operating Expenses	54.4%	50.3%
Ratio of Operating Expenses to Revenues	81.28%	93.80%

Contains a proportion of mixed train miles.

OPERATING REVENUES, EXPENSES & STATISTICSCANADIAN NATIONAL RY.

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

For the Month of December, 1923

	1923	1922
<u>OPERATING REVENUES</u>		
Freight	\$13,883,941.66	\$12,875,891.11
Passenger	3,209,625.70	2,751,891.22
Mail	356,319.97	238,951.93
Express	1,459,890.14	1,627,463.99
Other Freight Train	Dr. 7,621.55	8,105.90
Other Passenger Train	205,460.67	177,427.14
All other	487,741.52	647,033.71
Total Railway Operating Revenues	19,595,358.11	18,326,765.08
<u>OPERATING EXPENSES</u>		
Maint. of Way & Structures	\$ 2,141,451.58	\$ 2,917,685.18
Maint. of Equipment	3,578,023.07	7,053,574.89
Traffic	795,995.85	438,024.75
Transportation	9,352,938.32	10,597,448.73
Misc. Operations	357,583.93	317,134.07
General	716,273.49	570,036.81
Trans. for Investment	Cr. 107,533.62	Cr. 95,009.96
Total Railway Operating Expenses	16,834,732.62	21,798,894.52
<u>OPERATING INCOME</u>		
Net Operating Revenue	\$ 2,760,625.49	Dr. \$3,472,129.44
Railway Tax Accruals	478,998.86	146,517.42
Uncollectable Revenues	220.23	14,783.75
Hire of Equipment	Cr. 305,954.53	Cr. 124,264.82
Joint Facilities Rents	Cr. 21,366.71	Cr. 187,432.33
Operating Income	2,608,727.64	Dr. 3,321,733.47
<u>OPERATING STATISTICS</u>		
Average Miles of Road Operated	20,510.61	20,461.75
No. of Tons Carried (Rev. Fr.)	4,001,438	3,788,212
No. of Tons Carried One Mile " "	1,795,001,111	1,551,927,773
No. of Tons Carried (All Fr.)	4,616,560	4,778,773
No. of Tons Carried One Mile " "	1,933,883,172	1,736,921,113
No. of Revenue Passengers Carried	1,867,773	1,899,917
No. of Rev. Pass. Carried One Mile	113,572,585	97,379,210
# Freight Train Miles	3,041,515	3,115,930
# Passenger Train Miles	1,783,386	1,741,005
Total Train Miles (Rev. & Non Rev.)	4,894,635	4,969,744
Freight Car Miles-Loaded	67,555,873	63,503,694
Freight Car Miles-Empty	40,337,437	32,557,424
Passenger Train Car Miles	12,640,437	11,873,942
Total Amount of Pay Roll	\$10,204,027.19	\$10,416,463.59
Number of Employees	84,367	87,707
<u>DAILY AVERAGES PER MILE OF ROAD OPERATED</u>		
Operating Revenue	\$30.82	\$28.89
Operating Expenses	\$26.48	\$34.37
No. of Tons Moved One Mile (Rev. Fr.)	2,823	2,447
No. of Tons Moved One Mile (All Fr.)	3,042	2,738
No. of Rev. Pass. Carried One Mile	179	154
<u>AVERAGES PER FREIGHT TRAIN MILE</u>		
Freight Revenue	\$ 4.56	\$ 4.13
No. of Tons of Freight (Rev. Fr.)	590.2	498.1
No. of Tons of Freight (All Fr.)	635.8	557.4
Loaded Freight Cars	22.2	20.4
Empty Freight Cars	13.3	10.4
<u>AVERAGES PER PASSENGER TRAIN MILE</u>		
Passenger Train Revenues	\$ 2.93	\$ 2.75
Passengers Carried	63.7	55.9
Passenger Cars	7.1	6.8
Average Operating Expenses per train mile	3.44	4.39
Average Length of Haul (Rev. Fr.) Miles	448.6	409.7
Average Passenger Journey Miles	60.8	51.3
Average Tons per Loaded Fr. Car	28.6	27.4
Av. Freight Receipt per Rev. Ton Mile	.773¢	.830¢
Av. Passenger Receipt per Pass. per Mile	2.826¢	2.826¢
Ratio of Pay Roll to Operating Revenues	52.1%	56.8%
Ratio of Pay Roll to Operating Expenses	60.6%	47.8%
Ratio of Operating Expenses to Revenues	85.91%	118.95%

Contains a proportion of mixed train miles.

OPERATING REVENUES, EXPENSES & STATISTICS

CANADIAN PACIFIC RY.

(Montreal & Atlantic Ry., Esquimalt & Nanaimo Ry.)

For the Month of December, 1923

	1923	1922
<u>OPERATING REVENUES</u>		
Freight	\$13,854,546.84	\$12,056,439.67
Passenger	3,093,611.48	3,278,933.49
Mail	363,814.40	352,629.36
Express	465,774.04	476,847.03
Other Freight Train	3,494.09	2,846.35
Other Passenger Train	253,735.74	247,258.71
Water Line	141,546.30	141,234.53
All Other	943,632.68	719,169.24
Total Railway Operating Revenues	19,120,155.57	17,275,358.38
<u>OPERATING EXPENSES</u>		
Maint. of Way & Structures	\$2,547,909.84	\$1,538,182.35
Maint. of Equipment	2,959,883.59	2,652,535.78
Traffic	792,605.31	671,247.11
Transportation	7,298,413.03	7,419,247.69
Misc. Operations	159,659.62	194,790.04
General	302,796.66	321,505.29
Trans. for Investment	-	-
Total Railway Operating Expenses	14,061,268.05	12,797,508.26
<u>OPERATING INCOME</u>		
Net Operating Revenue	\$5,058,887.52	\$4,477,850.12
Railway Tax Accruals	1,465,345.00	1,483,859.16
Uncollectable Revenues	-	-
Hire of Equipment	Cr. 381,717.24	Cr. 426,157.63
Joint Facilities Rents	Cr. 51,871.63	119,470.72
Operating Income	4,027,131.39	3,300,677.87
<u>OPERATING STATISTICS</u>		
Average Miles of Road Operated	13,919.9	13,885.2
No. of Tons Carried (Rev.Fr.)	3,376,103	2,972,476
No. of Tons Carried One Mile " "	1,856,963.692	1,412,950.134
No. of Tons Carried (All Fr.)	3,986,060	3,688,436
No. of Tons Carried One Mile " "	1,975,040.180	1,558,943.430
No. of Revenue Pass. Carried	1,250,937	1,235,023
No. of Revenue Pass. Carried One Mile	106,108.614	101,541.448
Freight Train Miles	2,923,752	2,569,895
Passenger Train Miles	1,585,276	1,586,581
Total Train Miles (Rev. & Non Rev.)	4,545,504	4,180,281
Freight Car Miles-Loaded	60,023,036	49,778,803
Freight Car Miles-Empty	39,117,210	24,337,209
Passenger Train Car Miles	11,559,542	11,061,824
Total Amount of Pay Roll	\$7,297,569.69	\$7,059,249.18
Number of Employees	57,525	54,408
<u>DAILY AVERAGES PER MILE OF ROAD OPERATED</u>		
Operating Revenue	\$44.31	\$40.13
Operating Expenses	\$32.59	\$29.73
No. of Tons Moved One Mile (Rev.Fr.)	4,303	3,283
No. of Tons Moved One Mile (All Fr.)	4,577	3,622
No. of Rev. Pass. Carried One Mile	246	236
<u>#AVERAGES PER FREIGHT TRAIN MILE</u>		
Freight Revenue	\$4.74	\$4.69
No. of Tons of Freight (Rev.Fr.)	635.1	549.8
No. of Tons of Freight (All Fr.)	675.5	606.6
Loaded Freight Cars	20.5	19.4
Empty Freight Cars	13.4	9.5
<u>#AVERAGES PER PASSENGER TRAIN MILE</u>		
Passenger Train Revenues	\$2.63	\$2.75
Passengers Carried	66.9	64.0
Passenger Cars	7.3	7.0
Average Operating Expenses per train mile	\$3.09	\$3.06
Average Length of Haul (Rev.Fr.) Miles	550.0	475.3
Average Passenger Journey Miles	84.8	82.2
Average Tons per Loaded Fr. Car	32.9	31.3
Av. Fr. Receipt per Rev. Ton Mile	.746¢	.853¢
Av. Passenger Receipt per Pass. per mile	2.916¢	3.229¢
Ratio of Pay Roll to Operating Revenues	38.2%	40.9%
Ratio of Pay Roll to Operating Expenses	51.9%	55.2%
Ratio of Operating Expenses to Revenues	73.54%	74.08%

Contains a proportion of Mixed train miles.

CANADIAN NATIONAL SYSTEM(Steam Lines in Canada & United States)

For the Month of December, 1923

	<u>OPERATING REVENUES</u>	<u>1923</u>	<u>1922</u>
Canadian Lines		\$19,595,353.11	\$18,326,765.08
Duluth, Winnipeg & Pacific		169,745.00	186,811.43
Grand Trunk Western Lines		2,502,396.88	2,250,375.97
New England Lines		499,507.18	408,773.90
Total		\$22,767,007.17	\$21,172,726.36

	<u>OPERATING EXPENSES</u>		
Canadian Lines		\$16,834,732.62	\$21,798,894.52
Duluth, Winnipeg & Pacific		149,068.15	174,285.64
Grand Trunk Western Lines		1,708,326.86	1,742,117.65
New England Lines		360,919.42	342,833.07
Total		\$19,133,047.05	\$24,058,130.88

	<u>NET OPERATING REVENUES</u>		
Canadian Lines		\$ 2,760,625.49	Dr \$3,472,129.44
Duluth, Winnipeg & Pacific		20,676.85	12,525.77
Grand Trunk Western Lines		714,070.02	508,258.32
New England Lines		138,587.76	65,940.83
Total		\$ 3,633,960.12	Dr \$2,885,404.52

For the Year Ended Dec. 31, 1923

	<u>OPERATING REVENUES</u>	<u>1923</u>	<u>1922</u>
Canadian Lines		\$216,572,175.89	\$203,062,344.65
Duluth, Winnipeg & Pacific		2,361,757.41	1,998,372.87
Grand Trunk Western Lines		32,471,522.74	25,875,124.61
New England Lines		3,515,000.00	3,123,182.90
Total		\$254,926,456.04	\$234,059,025.03

	<u>OPERATING EXPENSES</u>		
Canadian Lines		\$204,921,713.26	\$205,572,978.40
Duluth, Winnipeg & Pacific		2,081,762.15	1,891,069.70
Grand Trunk Western Lines		23,679,714.70	20,527,991.87
New England Lines		4,005,702.84	3,180,273.38
Total		\$234,689,892.95	\$231,172,313.50

	<u>NET OPERATING REVENUES</u>		
Canadian Lines		\$ 11,656,462.63	Dr. \$2,510,633.84
Duluth, Winnipeg & Pacific		279,995.26	107,303.09
Grand Trunk Western Lines		8,791,808.04	5,347,132.76
New England Lines		Dr. 491,702.84	Dr. 57,090.48
Total		\$20,236,563.09	\$2,886,711.55



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