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DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

TRANSPORTATION BRANCH

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OPERATING REVENUES EXPENSES & STATISTICS

of

RAILWAYS

With Annual Operating Revenues of \$500,000

For

JUNE

1927

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Published by authority of the Hon. James Malcolm, M. P.,

Minister of Trade and Commerce

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OTTAWA

1927

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

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Dominion Statistician, R.H. Coats, B.A., F.S.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 JUNE, 1927

Operating revenues for June were below those of June, 1926 by \$1,023,846, or 2.6 per cent, but were considerably over those of June, 1922 to 1925 inclusive.

Freight traffic was lighter than last year by 8.3 per cent, the grain traffic especially being lighter, largely due to the very heavy movement in 1926. Passenger revenues declined by \$86,237 for a reduction of one per cent in passenger traffic. Operating expenses showed an increase of \$1,118,802, or 3.3 per cent, maintenance of equipment increasing by \$655,251, or 9.5 per cent and transportation expenses increasing slightly despite the lighter traffic. The total pay roll increased by \$760,869, or 3.5 per cent for an increase in the average number of employees of only 521. Net operating revenues amounted to \$3,492,405, the lowest earned this year, and for the six months were less than in 1926 by \$2,143,238.

CANADIAN NATIONAL RAILWAYS showed a decrease in freight traffic of 12.4 per cent and a reduction in freight revenues of \$660,943 or 4.9 per cent. Passenger revenues also decreased by \$61,364, or 2 per cent although passenger traffic increased by 1.3 per cent. The reduction in total revenues amounted to \$667,102, or 3.6 per cent, but operating expenses increased by \$800,646, or 4.5 per cent, producing an operating deficit of \$517,472, which is the first deficit for the Canadian lines in two years, the last being for June, 1925. Heavy maintenance expenses were the chief factors in the increase in operating expenses, although transportation expenses increased by \$162,427, or 2.3 per cent, with a reduction in both traffic and train mileage.

The lines in the United States had considerably better results than in 1926, the Central Vermont almost doubling its net revenues and the result for the entire system was a net of \$646,564, as against \$2,027,580 for June, 1926.

For the six months, January - June, the Canadian lines show a reduction in net revenues of \$1,998,542, but the United States lines increased their net by \$511,595, making the net revenues for the system \$14,070,787, as against \$15,557,734 in 1926 which was a reduction of \$1,486,947.





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THE UNIVERSITY OF CHICAGO

DEPARTMENT OF CHEMISTRY

RESEARCH REPORT NO. 100

BY J. H. HARRIS

The following report was prepared under the direction of the Director of the Department of Chemistry, The University of Chicago, and is published as a Research Report of the Department. The work was supported by the National Science Foundation, Grant No. 100-10000, and the University of Chicago.

The work was carried out in the Department of Chemistry, The University of Chicago, during the period from January 1, 1960, to December 31, 1960. The results of the work are presented in this report.

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CANADIAN PACIFIC RAILWAY- With a reduction in freight traffic of 7.2 per cent and in passenger traffic of .3 per cent, operating revenues were reduced by only \$259,087, or 1.7 per cent. Maintenance of way and structures were reduced by \$297,906, or 8.8 per cent, maintenance of equipment was increased by \$478,891, or 18.5 per cent, and traffic, transportation and general expenses were also increased, making the total heavier than in June, 1926 by \$261,756, or 2.1 per cent. Net operating revenues were reduced by \$530,844 and the operating ratio was increased from 80.96 per cent in 1925 to 84.08 per cent. Freight revenues per train mile increased by 20 cents, whereas passenger train earnings per train mile were unchanged.

For the six months gross revenues increased by \$4,147,703, but heavier operating expenses reduced the net revenues by \$242,628 and the operating income by \$94,388.

31/8/27/GA





## OPERATING REVENUES, EXPENSES &amp; STATISTICS

## STEAM RAILWAYS OF CANADA

WITH ANNUAL OPERATING REVENUES OF \$500,000

For the Month of June, 1927

	1927	1926
<u>OPERATING REVENUES</u>		
Freight	\$26,591,973.57	\$27,601,534.69
Passenger	7,188,168.23	7,274,405.65
Mail	623,251.00	622,415.18
Express	1,813,463.30	1,812,893.94
Other Freight Train	7,076.03	809.43
Other Passenger Train	805,276.37	780,550.52
Water Line	294,251.65	323,410.00
All other	1,485,974.57	1,417,261.84
Total Railway Operating Revenues	38,809,434.72	39,833,281.25
<u>OPERATING EXPENSES</u>		
Maint. of way and structures	\$10,507,857.53	\$10,298,913.01
Maint. of equipment	7,554,821.27	6,899,569.88
Traffic	1,503,718.58	1,327,015.37
Transportation	14,297,532.01	14,197,883.09
Miscellaneous operations	515,479.85	505,755.55
General	1,016,556.47	1,017,085.79
Trans. for investment	Cr. 78,936.54	Cr. 47,996.02
Total railway operating expenses	35,317,029.17	34,198,226.67
<u>OPERATING INCOME</u>		
Net operating revenue	\$3,492,405.55	\$5,635,054.58
Railway tax accruals	749,224.61	682,433.05
Uncollectable revenues	1,235.15	4,176.20
Hire of equipment	Dr. 93,263.10	Cr. 6,907.49
Joint facilities rents	Cr. 100,946.87	Cr. 26,380.78
Operating income	2,749,629.56	4,981,733.60
<u>OPERATING STATISTICS</u>		
Average miles of road operated	39,358.38	39,051.49
No. of tons carried (Rev.Fr.)	9,626,337	9,611,056
No. of tons carried one mile " "	2,156,781,126	2,382,719,017
No. of tons carried one mile (All Fr.)	2,610,866,553	2,846,140,203
Gross ton miles, excl. of locomotive and tender	6,023,592,481	6,547,010,621
No. of revenue pass. carried	3,079,137	3,270,512
No. of revenue pass. carried one mile	262,617,890	265,012,047
# Freight train miles	4,659,764	4,875,319
# Passenger train miles	4,251,397	4,202,569
Total train miles (Rev. & Non Rev.)	9,501,223	9,598,335
Freight car miles-loaded	111,569,693	117,798,606
Freight car miles-empty	53,303,405	60,462,935
Passenger train car miles	31,853,864	30,872,098
Total amount of pay roll	\$22,248,004.80	\$21,487,134.91
Number of employees	178,702	178,181
<u>DAILY AVERAGES PER MILE OF ROAD OPERATED</u>		
Operating revenue	\$32.87	\$34.00
Operating expenses	\$29.91	\$29.19
No. of tons moved one mile (Rev.Fr.)	1,827	2,034
No. of tons moved one mile (All Fr.)	2,211	2,429
No. of rev. passengers carried one mile	222	226
<u>#AVERAGES PER FREIGHT TRAIN MILE</u>		
Freight revenue	\$5.71	\$5.66
No. of tons of freight (Rev.Fr.)	462.9	488.7
No. of tons of freight (All Fr.)	560.3	583.8
Gross ton miles	1292.7	1342.9
Loaded freight cars	23.9	24.2
Empty freight cars	11.4	12.4
<u>#AVERAGES PER PASSENGER TRAIN MILE</u>		
Passenger train revenues	\$2.45	\$2.50
Passengers carried	61.8	63.1
Passenger cars	7.5	7.3
Average operating expenses per train mile	\$3.72	\$3.56
Average length of haul (Rev.Fr.) Miles	224.1	247.9
Average passenger journey Miles	85.3	81.0
Average tons per loaded freight car mile	23.4	24.2
Av. freight receipt per rev. ton mile	1.233¢	1.158¢
Av. passenger receipt per pass. per mile	2.737¢	2.745¢
Ratio of pay roll to operating revenues	57.3%	53.9%
Ratio of operating expenses to revenues	91.00%	85.85%

# Contains a proportion of mixed train miles.





## OPERATING REVENUES, EXPENSES &amp; STATISTICS

## CANADIAN NATIONAL RAILWAYS

For the Month of June, 1927.

	1927	1926
<u>OPERATING REVENUES</u>		
Freight	\$12,811,230.87	\$13,472,174.84
Passenger	2,991,458.72	3,052,823.45
Mail	266,877.15	268,994.88
Express	1,192,742.56	1,193,841.25
Other freight train	-	-
Other passenger train	286,623.83	300,951.86
Water line	-	-
All other	488,417.61	415,666.51
Total railway operating revenues	18,037,350.74	18,704,452.79
<u>OPERATING EXPENSES</u>		
Maint. of way and structures	\$6,408,528.52	\$5,951,908.24
Maint. of equipment	3,561,679.31	3,448,083.52
Traffic	597,311.79	500,538.85
Transportation	7,327,760.97	7,165,333.90
Miscellaneous operations	216,610.99	194,151.55
General	519,369.55	539,327.31
Trans. for investment	Cr. 76,437.59	Cr. 45,166.81
Total railway operating expenses	\$18,554,823.54	\$17,754,176.56
<u>OPERATING INCOME</u>		
Net operating revenue	Dr. \$ 517,472.80	\$ 950,276.23
Railway tax accruals	299,910.70	251,178.12
Uncollectable revenues	704.85	4,115.43
Hire of equipment	Cr. 45,195.68	Cr. 119,782.12
Joint facilities rents	Cr. 93,644.73	Cr. 64,918.05
Operating income	Dr. 679,247.94	879,682.85
<u>OPERATING STATISTICS</u>		
Average miles of road operated	20,854.58	20,713.46
No. of tons carried (Rev. Fr.)	3,897,593	4,096,355
No. of tons carried one mile " "	1,086,736.795	1,240,677.823
No. of tons carried one mile (All Fr.)	1,294,864.289	1,442,440.214
Gross ton miles, excl. of locomotive & tender	3,017,374.304	3,283,741.500
No. of revenue passengers carried	1,489,304	1,639,110
No. of revenue pass. carried one mile	111,642.331	110,161.991
# Freight train miles	2,247,506	2,355,239
# Passenger train miles	1,939,252	1,886,586
Total train miles (Rev. & Non Rev.)	4,569,435	4,545,928
Freight car miles-loaded	55,869,902	58,717,489
Freight car miles-empty	26,252,541	30,317,569
Passenger train car miles	14,091,479	13,486,129
Total amount of pay roll	\$11,813,845	\$11,272,710
Number of employees	96,089	93,502
<u>DAILY AVERAGES PER MILE OF ROAD OPERATED</u>		
Operating Revenue	\$28.83	\$30.10
Operating Expenses	\$29.66	\$28.57
No. of tons moved one mile (Rev. Fr.)	1,737	1,997
No. of tons moved one mile (All Fr.)	2,070	2,321
No. of rev. passengers carried one mile	178	177
<u># AVERAGES PER FREIGHT TRAIN MILE</u>		
Freight revenue	\$5.70	\$5.72
No. of tons of freight (Rev. Fr.)	483.5	526.8
No. of tons of freight (All Fr.)	576.1	612.4
Gross ton miles	1342.5	1394.2
Loaded freight cars	24.9	24.9
Empty freight cars	11.7	12.9
<u># AVERAGES PER PASSENGER TRAIN MILE</u>		
Passenger train revenues	\$2.44	\$2.55
Passengers carried	57.6	58.4
Passenger cars	7.3	7.1
Average operating expenses per train mile	\$4.06	\$3.91
Average length of haul (Rev. Fr.) Miles	278.8	302.9
Average passenger journey Miles	75.0	67.2
Average tons per loaded freight car mile	23.2	24.6
Av. freight receipt per rev. ton mile	1.179¢	1.086¢
Av. passenger receipt per pass. per mile	2.680¢	2.771¢
Ratio of pay roll to operating revenues	65.5%	60.3%
Ratio of operating expenses to revenues	102.87%	94.92%

# Contains a proportion of mixed train miles.





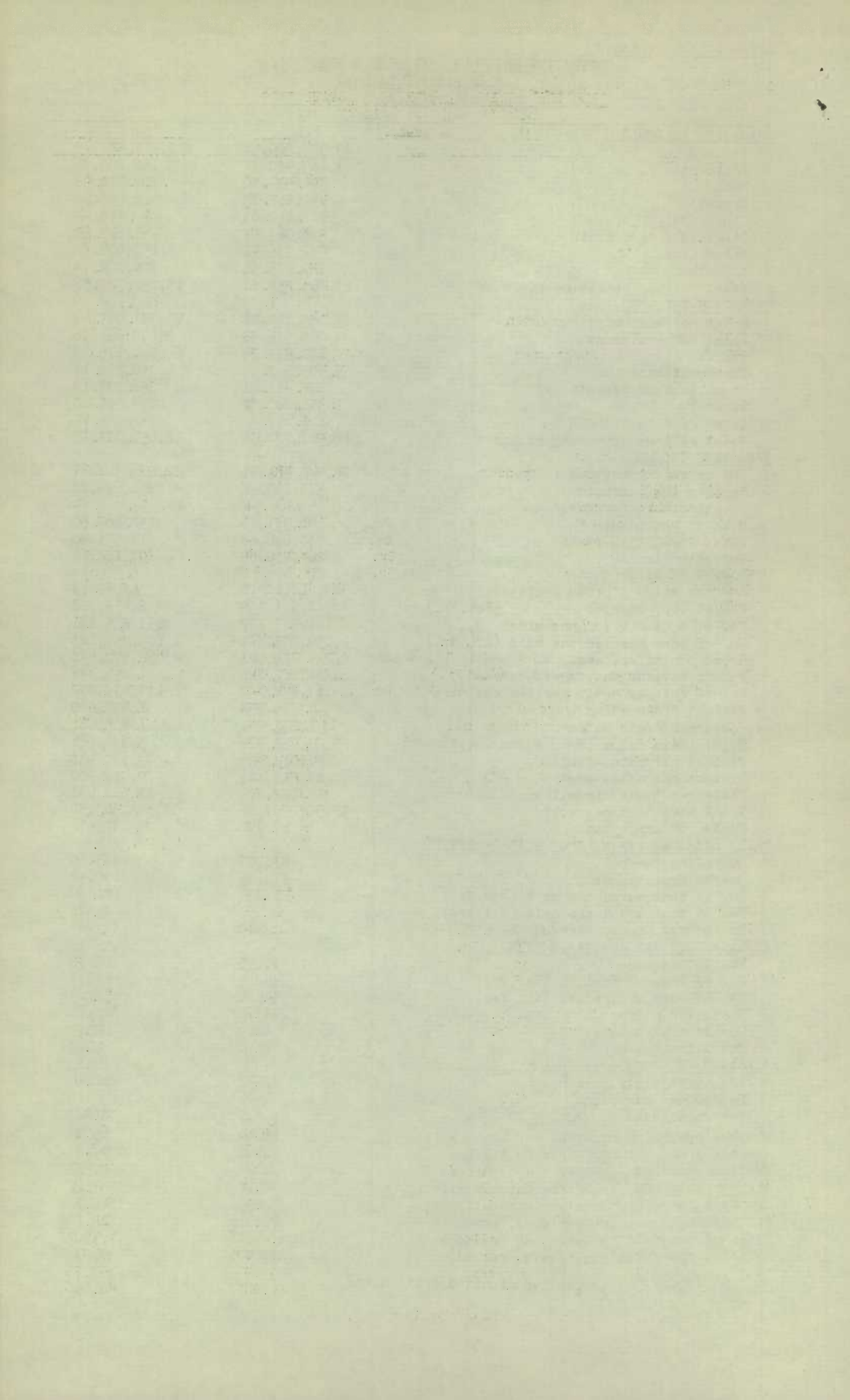
## OPERATING REVENUES, EXPENSES &amp; STATISTICS

## CANADIAN PACIFIC RAILWAY

For the Month of June, 1927.

	1927	1926
<u>OPERATING REVENUES</u>		
Freight	\$9,934,300.97	\$10,211,583.49
Passenger	3,165,490.71	3,152,295.79
Mail	302,494.86	297,432.90
Express	442,868.73	469,587.68
Other freight train	790.63	165.44
Other passenger train	475,067.01	441,644.80
Water Line	252,736.41	250,904.82
All other	789,485.55	808,702.74
Total railway operating revenues	15,363,234.87	15,632,322.66
<u>OPERATING EXPENSES</u>		
Maint. of way and structures	\$3,083,192.86	\$3,381,099.42
Maint. of equipment	3,068,556.58	2,589,664.96
Traffic	811,711.76	741,815.49
Transportation	5,405,097.35	5,398,110.13
Miscellaneous operations	238,411.01	256,333.19
General	310,800.80	288,990.80
Trans. for investment	--	--
Total railway operating expenses	12,917,770.36	12,656,013.99
<u>OPERATING INCOME</u>		
Net operating revenue	\$2,445,464.51	\$2,976,308.67
Railway tax accruals	322,169.78	296,624.28
Uncollectable revenues	--	--
Hire of equipment	Cr. 102,331.44	Cr. 132,867.90
Joint facilities rents	Cr. 38,826.68	Cr. 14,551.40
Operating income	2,264,452.85	2,827,103.69
<u>OPERATING STATISTICS</u>		
Average miles of road operated	14,004.0	13,824.7
No. of tons carried (Rev. Fr.)	2,511,154	2,439,708
No. of tons carried one mile " "	791,587,822	857,855,241
No. of tons carried one mile (All Fr.)	1,030,373,841	1,109,957,123
Gross ton miles, excl. of locomotive & tender	2,214,839,943	2,452,772,938
No. of revenue passengers carried	1,085,749	1,095,441
No. of revenue pass. carried one mile	117,178,130	117,477,372
# Freight train miles	1,769,358	1,907,549
# Passenger train miles	1,813,942	1,805,662
Total train miles (Rev. & Non Rev.)	3,753,922	3,876,961
Freight car miles-loaded	41,013,999	44,190,538
Freight car miles-empty	17,917,121	20,317,307
Passenger train car miles	14,002,760	13,528,683
Total amount of pay roll	\$8,507,957.86	\$8,398,503.30
Number of employees	67,770	70,476
<u>DAILY AVERAGES PER MILE OF ROAD OPERATED</u>		
Operating revenue	\$36.57	\$37.69
Operating expenses	\$30.75	\$30.52
No. of tons moved one mile (Rev. Fr.)	1,884	2,068
No. of tons moved one mile (All Fr.)	2,453	2,676
No. of rev. pass. carried one mile	279	283
<u>#AVERAGES PER FREIGHT TRAIN MILE</u>		
Freight revenue	\$5.55	\$5.35
No. of tons of freight (Rev. Fr.)	442.4	449.7
No. of tons of freight (All Fr.)	575.8	581.9
Gross ton miles	1237.8	1285.8
Loaded freight cars	22.9	23.2
Empty freight cars	10.0	10.9
<u>#AVERAGES PER PASSENGER TRAIN MILE</u>		
Passenger train revenues	\$2.42	\$2.42
Passengers carried	64.6	65.1
Passenger cars	7.7	7.5
Average operating expenses per train mile	\$3.44	\$3.26
Average length of haul (Rev. Fr.) Miles	315.2	351.6
Average passenger journey Miles	107.9	107.2
Average tons per loaded freight car mile	25.1	25.1
Av. freight receipt per rev. ton mile	1.255¢	1.190¢
Av. passenger receipt per pass. per mile	2.701¢	2.683¢
Ratio of pay roll to operating revenues	55.4%	53.7%
Ratio of operating expenses to revenues	84.08%	80.96%

# Contains a proportion of mixed train miles.





CANADIAN NATIONAL SYSTEM  
(Steam Lines in Canada and United States)  
For the Month of June, 1927 & 1926.

OPERATING REVENUES

	<u>1927</u>	<u>1926</u>
Canadian Lines	\$18,037,350.74	\$18,704,452.79
Duluth, Winnipeg & Pacific	212,306.00	190,151.00
Grand Trunk Western Lines	3,236,329.00	3,169,854.00
Central Vermont Railway	841,205.00	810,997.35
New England Lines	218,059.26	239,441.21
Total	<u>22,545,250.00</u>	<u>23,114,896.35</u>

OPERATING EXPENSES

Canadian Lines	\$18,554,823.54	\$17,754,176.56
Duluth, Winnipeg & Pacific	205,661.03	180,800.64
Grand Trunk Western Lines	2,245,688.02	2,189,125.78
Central Vermont Railway	675,321.03	724,494.35
New England Lines	217,191.39	238,718.36
Total	<u>21,898,685.01</u>	<u>21,087,315.69</u>

NET OPERATING REVENUE

Canadian Lines	Dr. \$517,472.80	\$950,276.23
Duluth, Winnipeg & Pacific	6,644.97	9,350.36
Grand Trunk Western Lines	990,640.98	980,728.22
Central Vermont Railway	165,883.97	86,503.00
New England Lines	867.37	722.85
Total	<u>646,564.99</u>	<u>2,027,580.66</u>

OPERATING INCOME

Canadian Lines	Dr. \$679,247.94	\$879,682.85
Duluth, Winnipeg & Pacific	134.10	9,045.44
Grand Trunk Western Lines	509,029.39	541,353.20
Central Vermont Railway	120,167.41	34,558.80
New England Lines	Dr. 71,829.22	Dr. 70,168.19
Total	<u>121,746.26</u>	<u>1,394,472.10</u>

S U M M A R Y

For Six Months ended June 30

ALL RAILWAYS

	<u>1927</u>	<u>1926</u>
Operating Revenues	\$225,431,815.97	\$217,422,139.41
Operating Expenses	194,222,791.33	184,069,876.33
Net Operating Revenues	31,209,024.64	33,352,263.08
Operating Income	26,804,083.48	30,269,394.37

CANADIAN NATIONAL RAILWAYS

Operating Revenues - Canadian Lines	\$104,601,547.14	\$101,590,738.50
Central Vermont & U.S. Lines	25,097,266.86	23,871,152.34
Total	<u>129,698,814.00</u>	<u>125,461,890.84</u>
Operating Expenses - Canadian Lines	\$96,891,404.94	\$91,882,054.10
Central Vermont & U.S. Lines	18,736,621.80	18,022,101.75
Total	<u>115,628,026.74</u>	<u>109,904,155.85</u>
Net Operating Revenues-Canadian Lines	\$7,710,142.20	\$9,708,684.40
Central Vermont & U.S. Lines	6,560,545.06	5,849,050.59
Total	<u>14,070,787.26</u>	<u>15,557,734.99</u>
Operating Income - Canadian Lines	\$6,656,562.84	\$9,315,210.07
Central Vermont & U.S. Lines	3,161,708.05	2,966,075.93
Total	<u>9,818,270.89</u>	<u>12,281,286.00</u>

CANADIAN PACIFIC RAILWAY

Operating Revenues	\$83,931,113.35	\$84,783,410.26
Operating Expenses	75,074,467.49	70,684,137.17
Net Operating Revenues	13,856,645.86	14,099,273.09
Operating Income	13,012,299.96	13,956,687.05



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