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C ANADA
DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
TRANSPORTATION BRANCH

## SUMMARY

of
OPERATING REVENUES EXPENSES \& STATISTICS
of
RAILWAYS
With Annual Operating Revenues of $\$ 500,000$
For Year Ended
DECEMBER 31, 1928

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1929

# Dominion Statistician, R.H. Coats, J.A, F.S.S., (Hon.), F.R.S.C. Chief, Mransportation Branch, E.S. Wrong, B.Sc. 

OPERATING REVENUES BYYMNSTA \& STATISTICS
STRAM RAIITAYS OF CANADA
WITH ANNJAI OPERATINF RZVENUES OF $\$ 500,000$
FCR THE YEAR ENDED DECEMBER 31,1928

Canadian railways earned larger gross revenues than in any previous year, exceeding the 1927 revemes, which were the previous record, by $\$ 58,043,972$, or 11.6 per cent. Operating expenses were heavier than for 1927 by $\$ 30,883,686$ and the net operating revenue, which was also a naw high record, amounted to $\$ 120,019,800$, or $\$ 27,160,285$ more than for 1927.

Mreight traffic was hoavier than in 1927 by 19.3 per cent. The heavy carryover of the 1927 grain crop and the record harvest of 1928 were large factors in this record trafic. The increase in tonnage of wheat al one was over 5 million tons. Mine products increased by $1,399,136$ tons, forest products by 635,015 tons and manufactures and miscellaneous freight by $3,315,333$ tons.

The number of passengers carried continued to decrease, being less than for any of the previous six years, but the passenger miles were slightly greater than in 1923, the peak year. The average passenger journey was 81.3 miles as against 76.4 miles in 1927 and 68.6 miles in 1923 . This means that the long haul traffic is growing and that the short haul traffic has declined, due to the automobile.

The pay roll was heavier than in 1927 by $\$ 16,826,739$ and the number of employees increased by 8,427 . These monthly data exclude certain employees engaged in other than railway operations which are included in the annual reports, but the 1928 and 1927 data in these monthly reports are comparable. The operating ratio of 78.48 per cent is the lowest in the past 10 years and the average freight receipt per ton mile was also the smallest since 7918. The heavy movement of grain was chiefly responsiole for this low rate.

The first item in the tables on pages 3 and 4 . marked "Maritime F.R.R." is the loss in revenues on the Eastern Iines, Canadian National Railway, due to reductions in the published tariffs oraered by the Maritime Freight Rates Act, effective July 1,1927 . The other railways onerating in the territory affected by the Act were allowed to make similar reductions in their charges and to bill on the Board of Railway Comissioners for the difference and they included such bills in their current freight revenues. The Fastern Lines, however, do not collect these differences from the Rail.way Cormission, but the Dominion Goverment makes a separate appropriation under the Act at the end of the year for the deficit of the railway, including these losces in revenue due to the reductions in rates ordered by the act. These amounts were not included in the revenues in the monthly reports, but the adjustment has beer made in the summary report, thus placing the gross rovenues, net revonues, and operating income on the same basis as for the other rallways, and also for both years 2927 and 1928.

EASTGRN IINES, CANADIAN NATIONAL RIIJTAVE: G:Oss revenues, including the adjustments for reductions ordered by the iNaritime Freight Rates Act, as explained ebove, were larger than in 1927 by $\$ 1,795,503$ and operating income showed a deficit of $\$ 4,204,096$ as against a leficit of $\$ 4,242,535$ in 1927, or a betterment of $\$ 38,439$.

The freight traffic was heavier by 5.3 per cent and passenger miles also showed a small increase although the number of passengers carried declined by 2.4 per cent. The traffic density was only 1,700 revenme uns per dey per mile of
road as against 2,741 tons on the Canadian National and 3,452 tons, or more than twice the density, on the Canadian Pacific.

CANADIAN NATIONAI RAILWAYS: Canadian National lines in Canada, exclusive of the Eaatern Lines, showed an fncrease in net operating revenues of $\$ 11,376,538$, or an increase of nearly onenthird over the 1927 not revenues. Large increases in freight traffic increased the freight revenue by $\$ 21,50^{\prime 4}, 209$, or 14.4 per cent, and an increase of 3.1 in passenger miles increased the passenger revenue by $\$ 854,466$, or 2.8 per cent, and all other revenues aino showed increases, the total gross revenues being larger by $\$ 24,886,570$. Operating expenses were heavier by $\$ 13,510,031$, or 7.8 per cent, and the to ial pay roll increased by $\$ 8,622,055$, or 6.2 per cent, for an increase in the number of employees of 3,905 , or 4,2 per cent. Freight trains were loaded almost 200 gross tons ore" the 1927 trains and carried an average of 55.8 more revenue tons.

The Ines in the United States showed an increase in gross revenues of $\$ 3.028,976$ and an increase in net operating revenues of $\$ 1,606,349$ despite the losses of the New England lines.

The entire system, exclusive of the Eastern I1nes, showed a net operating revenue of $\$ 58,383,577$ and an operating inoome of $\$ 48,422,197$, as against $\$ 45,400,690$ and $\$ 38,063,132$ respectively in 1927.

CANADIAN PACIFIC RAIIWAY: Both gross and net operating revenues for 1928 were the largest earned, exceeding those for 1927 by $\$ 28,600,867$ and $\$ 13,789,119$ respectively.

Revenue ton miles showed an increase over 1927 of 24.4 per cent, the tonnage and the length of haul both showing increases. The number of passengers carried decreased by 2.4 per cent, but an increase in the average journey of 5.9 miles increased the passenger miles by 3.8 per cont ard passenger revenues were higher by $\$ 747,483$, or 2.2 per cent. The pay roll increased by $\$ 7,440,123$, or 7.6 per cent and the average number of employees by 4,242 , or 6.8 per cent. Freight traffic density, or revenue ton miles per mile of road, was 22 per cent greater than in 1927 but passenger traffic increased by only 2 per cent. The average freight revenue per train mile increased by 16 cents with an increase of 52.1 revenue tons per train, but the passenger train revenue per train mile showed a slight decrease. The operating ratio of 75.46 per cent was the lowest since 1918.

OPERATING REVENUES
Marstime F.R.R.
Freight
Fassenger
Mail
Express
Other freight train
Other passenger train
Tater line
All other
Total railway operating revenues
OPERATING EXPENSES
Maintenance of way and structures
Maintenance of quipment
Traffic
Transportation
Miscellaneous operations
General
Trans. for investment
Total railway operating expenses

## OPERATING INCOME

Net operating revenue
Railway tax accmals
Uncollectable revenues
Hire of equipment
Joinu facilities rents
Operating income
OPERATING STATISTICS
Average miles of road operated
No. of tons carried
No. of tons carried one mile
No. of tons carried one mile (All Fr.)
(Rev. $\mathrm{Fr}_{\mathrm{H}}$ )

- Gross ton miles, excl. of locomotive \& tender

No. of revenu passengers carried
No. of revenue pass. carried one mile
\# Freight train miles
\# Passenger train miles
Total train miles (Rev. \& Non Rev.)
Freight car miles-loaded
Freight car miles-empty
Passenger train car miles
Total amount of pay roll
Number of employees
DAIL Y AVERAGES PER MIIE OF ROAD OPERATED
Operating revenue
Operating expenses
No. of tons moved one mile (Rev. Fr.)
No. of tons moved one mile (All Fr.)
No. of rev. passengers carried one mile
\#AVERAGES PRR FREIGHT TRAIN MILE
Freight revenue
\$ 2,151,527.75
407,250,689.37
82, 749,110.48
$7.674,213.63$
22,692,164.39
35,078.57
$8,480,394.36$
2,609,703.59
$24,150,236.41$
557.793.118.55
$\$ 96,068,424.59$
$101,443,805.38$
17.935,014.07
$205,711,945.98$
$5,867,104.59$ 12,492,908.98
Cr. 1, 745,885.08
437.773 .318 .51
$\$ 120,019,800.04$ 11,003,779.08

36,952.40
Dr. 3,167,799.96
Dr. 259,062. 21
$105.552,306.39$
39,720.88
$136,473,786$
41,506,814,968
$46,254,215,421$
102,988,327,005
38,194,116
3,103,859,924
73,912,119
$50,760,603$
$125,517,195$
$1,781,261,417$
900,960,514
469,348,409
\$275, 796,910.19
176,848
\$ 931.809 .89
$355,513,784.13$
81,102,500187
$7,548,953.31$ $21,984,211.71$

31,721,69
8,156,185.21
2,522,055,96
21,957,923.37
$499,749,146.14$
$\$ 85,402,985.42$
93.524,763.21
$17,580,964.47$
193,256,708.82
$5,575,629.37$
12,408,151.36
859.570 .62
$406,889,632.03$
$\$ 92,859.514 .11$
9,733,694.46
40,826.41
Dr. $\quad 700,266.78$
Cr. 42,986.31
82,427,712.77
39.427 .69

123,149,126
34, $800,203,879$
39,180,100,983
87,981,367,089
$39,445,643$
3,015,555,759 67.143.322 49,512,978 120,883,690
$1,548,396,698$ 788,004,565 365,329,016
$\$ 258,970,170.67$
168,421

$$
\$ 34.73
$$

$\$ 28.27$
2,418
2,723
210
$\$ 5.31$
518.3
583.5
1310.4
23.1
11.7
$\$ 2.40$
60.9
7.4
$\$ 3.37$
282.6
76.4
25.3
$1.024_{\phi}$
$2.689 \phi$
51.8\%
81.42\%

# OPMRATING REVENUES，EXTHNES \＆STATISIICS <br> EASTERN IINES <br> CANADIAN NATIONAI RAIINAYS 

For Twelve Months ended December 31， 1928

QPERMT NG REVENUES
7．aight
3ossenser
raili
耳号p：く～3
Sther freight train
Cther pissenger train
Water line
All orher
Motal railway operating revenues
CPFRAIING UXPYNSES
Maintenance of way and structures
Maintenance of equipment

## Traffic

Transportation
iniscellaneous operations
General
Trans．for investment
Total railway operating expenses
OPERATTNG INCONE
Net operating revenue
Railway tax accruals
Jncollectable revenues
Hire ô equipment
Joint facilities rents
Cperating income
PERAIING STATISTICS
Average miles of road operated
No．of tons carried（Rev．Fr．）
No．Of tons carried one mile＂＂
No．of tons carried one mile（All Fr．）
Gross ton miles，excl．of locomotive \＆tender
Wo．of Yevenue passengers carried
4o．of＂：evenue pass．carried one mile
\＃Breight irain miles
HYessongev train mizes
Otal train miles（Rov．\＆Non Rev．）
Treight car miles－loaded
Ereight car miles－empty
Pessegger train car miles
Total amount of pay roll（Included in Canadian Iines）
romber of emrloyees
DATI AVERAGES PER MITR OF ROAD OPRRATED
Operatine revenue
Sperating expenses
MO，of tors moved one mile（Rev．Fr．）
No，of tons moved one mile（All Fr．）
No．of revenic rasscugers carried one mile

```
\(\$ 24.58\) 1，700 1，855
193
```

\＄2，151，527．75
$16,869,815.28$
4，959，716．92
806，526．10
1，759，691．16

$$
551,792.40
$$

$$
860,277.69
$$

$27,959,347.30$
$\$ 7.997 .429 .36$
5，554，650．29 809，040．96
$15,340,874.73$ ．401，150．37 1，323，105．15
Or．
31，483，351．52
Dr．$\$ 3,524,004,22$ 258，971．59 6，388．02 Dr．$\quad 433.416 .28$
Cr．18，683．91
Dr．

$$
3,107.73
$$

6，813，493
1，933，797，089
2，110，254，057
\＄ 931.809 .89
$16,309,775.57$
4，958，950．85
798，917．16
1，749，991．46
520，986．03
892，313．16
26，162， 744.12
$\$ 7,365,243.81$
5，556，937．77
$764,675.63$
14，661，570．10
396，619．47
1，282，222．j0
Cr．$\quad 37,686.22$
29，989，582．86
Dr．$\$ 3,826,838.74$ 260，840． 18 2，632．25
Dr．125，832．12
Dr．26，391．99
Dr．4，242，535．28

6，304，155
$1,760,548,737$
1，989，827，073
4，403，377，424
3，770，930
217，544，918
4，292，241
3，855，800
8，432，805 84，467，255
28，867，685
26，277，952

## \＃ATERAGES PER FREIGHI TRAIN MIIE

Wieneht revenue
$\$ 4.22$
\＄26．16
$\$ 26.43$
1，551
1，753
192
$\$ 4.02$
410.2
463.6
1025.9
19.7
$\$ 2.09$
56.7
6.9
$\$ 3.56$
279.3
57.7
23.6
$.973 \phi$
$2.280 \phi$

No．of tons of freight（All Fr．）
429.1
468.2
1029.9
20.1

Loaned freight cars
6.1
\＃ATERAGIS PF？PASSENGER TRAIN MIIE
Fassenger irain revenues
$\$ 2.06$
56.2
rassenzers carried
6.9

Avorage perating expenses per train mile
Arciact length of haul（Rev．Fr．）Miles
$\$ 3.59$
sierafe ？sssençer journey Miles
Nrage tcne pef loaded freight car mile
283.8

A．Ircigini receint per rev．ton mile
4\％．passcmer receipt per passenger per mile
Taito of ray roll to operating revenues
Raijo 0．＂operating expenses to revenues
（Included in Canadian Lines）
112．60\％

$$
\begin{aligned}
& \because 0+5 x=0 \quad-\quad \leq \\
& \text { - }
\end{aligned}
$$

## OWRAR NETMUSS


nassengen
Lictui．．．

CVise Aretgetu train
Cthe» pussergez train
Water ilme
AT O～ME＊
Tutal ．ailmay operating revenues
OPAR ATITG FIXPNNES
Naintenance of way and structures
Maintenance of equipment
Traffic
Trensportation
Miscellaneous operations
Eencral
Trans．for investment
Iutai railway operating expenses
OPERATING IIICO：T
Net operating revenue
Railway tax accmals
Unvollectable revenues
Hirt of equiprosnt
Joint facilities rents
Operating income
ODPRATIN二 STATISTICS
iverage miles of road uperated
No．of tons carried
2 Jo ．of ions carried one mile
No：of tons carried one mile
（Rev．Fr．）
11 n
（All Fr．）
Gross $50 n$ miles，excl of locomotive \＆t ender
No．of revenue passengers carried
iio．of revenue pass．carried one mile
\＃E゙ eight tirain miles
\＃Dassenger trein yiiles
Total train miles（Rev．\＆Non Rev．）
Ireight car miles－ioaded
Freight car mjlesmempty
Passenger train car miles
Total amount of pay roll（Including Eastern Lines）\＄148，288，701
Numjer of employees＂＂＂
DAILY ATHRAGES PER MILE OF ROAD OPERATED
Operatine re：enue $\quad \$ 35.62$
Onetating expenses
Yo：of tons moved one mile（Rev．Fr．）
NO．Of tons moved one mile（All Fr．）
No．Ot rer．passengers carried one mile
\＃ATMR：THS PEM IRTOCNM TRAIN MIIE
－e立ght revenue
io．oí tons ne freight（Rev．Fr．）
No．of tens of freight（A11 Fr．）
Gross tor miles
Loaded freight cars
Mmpty freight cars
\＃AVFRACIN ELR EASSIAGGR TRAIN MILE
Passenger traja revenues
Passengers carried
＂astergen caxs
Areragt operating expenses per train mile
Average lengil 0 ：haul（Kev．Fr．）Miles
Av arage rasseraser iournsy
Miles
Average toas jer loaded freighi sar mile
 Av，nassenge：receipt per passenger per mile $x$ Ratio of piy roil to operating revenues Ratio of operatixp expenses to revenues
$\$ 171,427,899.90$ $31,118,926.25$
2，522，621．12
12，632，398．75
$2,891,566.73$
$11,866,364.64$
$232,459,577.39$
$\$ 41,560,090.13$ $40,997,751.79$ $6,140,230.40$
91，811，560．51 2，026，111．14 $5,408,498.07$
Cr．$\quad 1,647,420.78$
$186,296,821.26$
$\$ 46,162,756.13$
3，152，991．15
33．583．97
Dr．$\quad 723,467.72$
Cr．$\quad 344,739.92$
$42,597,453.21$
$17,829.23$
$51,685,623$
$17,884,008,828$
$20,105,260,262$
$44,090,849,885$
$15,479,982$
$1,195,264,113$
$29,674,026$
$20,455,974$
52，788，416
$764,995,987$
389，636，980
$147,994,567$

| $\$ 35.62$ | $\$ 32.05$ |
| ---: | ---: |
| $\$ 28.55$ | $\$ 26.68$ |
| 2.741 | 2,330 |
| 3.081 | 2,640 |
| 183 | 179 |

$\$ 5.78$
602.7
677.5 1435.8

25，8
13.1
$\$ 2.40$ 58.4 7.2 $\$ 7.0$
346.0 77.2 26.3 ． 959 d
$2.604 \%$
$12957.4 \%$ $80.14 \%$
$\$ 149,853,690.55$
$30,264,459,63$
2，404，282．64
$11,960,637.03$
2：756，377！．62
10.323 .562 .86

207．573．007．52
$\$ 37,314,880.55$
37，600，724．19 $5,841,555.76$
$85,622,493.25$ $1,949,763.14$ 5，251，571．21
Cr．794，198．19
$172,786,789.91$
$\$ 34,786,217.41$ 2，972，607．49
$34,130.25$
Cr．$\quad 938,336.60$
Cr．$\quad 377,748.25$
$33,095,564.52$
$17,745.69$
$45,722,106$

$$
15,091,609,712
$$

$$
17,100,159,855
$$

$$
38,299,960,290
$$

$16,093,204$ $1,158,933,400$
$27,596,176$
19，585，880
$49,405,207$
$669,805,532$
351，277，659
$140,686,01+6$ $\$ 139,666,646$ 92，026
$\$ 32.05$
2，330
2，640
$\$ 5.43$
546.9
6.29 .7
1387.9
24.3
12.7
$\$ 2.42$
59.2
7.2 $\$ 3.50$ 330.1
12.0
. $.993 \phi$
2.6 .14
$60.0 \%$
$83.24 \%$
$x$ Revemie of Dastern Lines included to determine ratio．
\％Sontatn：a propcrtion of mixed train miles．

OIMAING RMNTS

## FこCičht

## 3ミncerger

Ma：
Fxp：20：

Cthez passenger train
Water isine
All cthe：
Total iailway operating revenues
OPAPAIING EXPENSHS
Mainuenance of way and stmuctures
Maintenance of．equipment
Traffic
Iransportation
Miscollancous operations
Goneral
Trans．for investment．
Total railway operating expenses
OPERATIITG INCOME
set operating revenue
Gailvey tax accruals
Uncoilectable revenues
Hire of equipment
Cr ．
$1,120,272,73$
Cr．84，085：08
51．69＇， 451.69
\＄：69， $544,853.94$
35． $33,447.33$
$3,693,294.30$
5，102，228．12
26，664．75
$4,624,5 \cdot 4.4,45$
2，2i44，432． 29
9，235，988，92
$230,406,354,10$
\＄35，812，412．79
43，710，377．79
9，883．512．69
77，974，056．72 2，764，441．34 3．727，171．53
173，871：972．$\overline{86}$
$\$ 56,534,381.24$ $6.044,287.36$

Joint facilities rents
Operating income

OPFRATING SIAIISTICS
Average miles of $r$ oad operated
170．of tons carried
（Rev．Fr．）
No．of tons cerried one mile
No．of tons carried one mile
（All Fr．）
Gross ton miles，excl．of locomotive \＆$t$ ender
To．of revenue passengers carried
Iio．of rov passengers carried one mile
\＃Freight train miles
＊Passenger train miles
Total train miles（Rev．\＆Non Rev．）
Freight car miles－loaded
Treight car miles－ompty
Passenger train car miles
Tctal amount of pay Poll
Number of employees
DATLY ATEKAGES PIR MILE OF ROAD OPERATED
Operatius revenne
cinerating expences
Nō．OI tons nioved one mile（Rev．Mr．）
No， $\mathrm{c}_{\mathrm{c}} \mathrm{n}$ moved one mile（All Fr．）
No of rev passtagers carried one mile
\＃ATSRANES PIER FRSIGHT TFAIN MTHE
Freight revenue
NiNo of tons of freight（Rev．Fr．）
27．of tons of frotegh（AI Fr．）
Gross ton riles
Loaced freight cars
Engty fres．ght cars
\＃ATEPACES PJT FISEPNGTA TRATN MIIE
sassenger trein revenmes
Prescemers caur ioc
Passerge：cars
Atgrase onerating expenses per train mile
Arerase Iemgth of Lavi（ㄷ．v，3r．）Miles
A－terage passente－juurasy Miles
Average ton：？er inatec freight car mile
Av，＊iens ravelpt pe＂ret，ton mile
Av Jasasnea：racetnt jer passenger per mile
Ratio of pey roil to operating revenues
Rat10 of nowratiac exonses to revenues
$\$ 142.54 .6,097.33$
$34,585,963.69$ 3：708，771，73 $5,541,04-32$

$$
10,115,8.8
$$

$4,465,492.33$
2，124，553，08
8，719，424．44
$201,805,486.40$
\＄30，661，299． 34
39，492，507，72 $9,943,414,95$
72，695，171．84 2，624，302．01 3，613，528． 60
159，060，224． 36
$\$ 42,745,262.04$ 4，999，197，72
re．1，448，549．13
Cr．320，957．95
39，515，571，40
14，073．7
34，314，152
14，514，230，389
16，566，870，900
35，260，089．357
13，602，337
1，270，090，498
27，481，210
20，034， 848
49，800，857
607，057，159
296．471， 221
153，151，594 $\$ 57,579,938,2 ?$ 52．729
$\$ 39.29$
$\$ 30.96$ 2，825；
3，225
247
\＄5．j9 jo ？ 602,8
1293．1
22.1

10． 5 \＄2， $4 \%$
5． 2.4
7.6 $\$ 3,25$ がと．2
93．4
272
.3828 2． 132 c
$48.4 \%$
78．ge\％

CANADIAN NATIONAL SYSIFM
(Steam Lines in Canade \& United States)
For Twelve Months Ended December 31, 1928


## OPERAIING EXPENSES

Canadian Lines
Duluth, Winnipeg \& Pacific
Grand Trunk Western Lines
New England Lines
Total

NET OPBRATING REVENUE
Canadian Lines
Duluth, Winnipeg \& Pacific Grand Trunk Western Lines New England Lines

Total

$$
\begin{array}{rr}
\$ 46,162,756.13 & \$ 34,786,217.41 \\
458,725.84 & 455,865.21 \\
12,004,197.05 & 10,077,959.27 \\
\mathrm{Dr} \quad 242,101.48 & 80,648.22 \\
\hline 58,383,577.54 & 45,400,690.11
\end{array}
$$

OPPRATING INCOME
Canadian Iines
Duluth, Winnipeg \& Pacific
Grand Trunk Testern Lines
New England Iines
\$186,296,821. 26 2,115,239.13
27,0114,778.46 $2,821,504.83$
$218,248,343.68$
$\$ 172,786,789.91$ 2,115,663.97
25,689,551.47 2,723,678.94
$203,315,684.29$
i
:

14-: 0


