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**DOMINION BUREAU OF STATISTICS**  
**TRANSPORTATION AND PUBLIC UTILITIES DIVISION**  
**OTTAWA**

**DOMINION BUREAU  
OF STATISTICS**

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**OPERATING REVENUES, EXPENSES & STATISTICS**

**RAILWAYS IN CANADA**

20-4140

**WITH ANNUAL OPERATING REVENUES OF**

**\$500,000 OR OVER**

For Twelve Months ended December 31, 1947.

Operating revenues of Canadian railways at \$776,520,384 in 1947 were the second highest on record (exceeded only by the peak war year 1944) and registered an increase of over \$65,134,000 or 9.2 p.c. above 1946. Freight revenues totalled \$602,022,383 - a new all-time high, and were up 14.2 p.c. from \$527,048,096 in 1946, while passenger revenues declined some \$12,346,000 to \$87,128,485 or by 12.4 p.c. Express revenue rose \$2,452,727 while mail was up \$189,223.

Reflecting increases in costs of materials and wages, maintenance of way and structures expenses were 9.4 p.c. heavier at \$132,304,531 compared with \$120,899,410 while maintenance of equipment outlay increased from \$136,193,318 to \$144,345,093 or by 6 p.c. Transportation expenses rose to \$343,928,456 up \$42,152,536 or by 14.0 p.c. Total operating expenses reached \$683,045,372 - the greatest in railway history.

In the income account, hire of equipment, principally for freight cars from American lines, showed a debit of \$15,165,431 compared with \$8,733,824 in 1946 and total operating income declined from \$58,107,279 to \$52,723,507. This compares with \$118,111,506 in 1944 when operating revenues approached comparability and indicates that operating expenses have increased at a much more rapid pace than revenues. Railway taxes during 1947 were \$25,681,766 against \$23,974,185 in 1946, up \$1,707,581.

Tons of freight carried totalled 169,174,660 tons - the largest peacetime volume recorded - and compares with 154,879,308 tons in 1946, an increase of 9.2 p.c., while freight train mileage rose only 5.9 p.c. The average length of haul for revenue freight declined slightly from 356 to 354 miles in 1947 but average tons per loaded freight car mile rose from 29.9 tons to 30.1. Total revenue passengers carried was 38,122,771 against 40,487,660 in 1946. The average number of passengers per train mile dropped from 102 to 83 excluding commuters, and the average passenger journey from 115 to 97 miles.

Ratio of operating expenses to revenues increased from 87.0 in 1946 to 87.9% in 1947. Total pay roll reached an all time high at \$409,244,518 for 173,078 employees on Canadian lines compared with \$377,770,198 for 168,914 employees in 1946.

**CANADIAN NATIONAL RAILWAYS:** Operating revenues of the Canadian lines increased from \$351,701,203 in 1946 to \$377,305,095 or by 7.3 p.c. This gain of some \$25,604,000 reflected increases of \$30,402,346 in freight revenues, \$1,432,236 in express and \$119,271 in mail against declines of \$6,475,214 in passenger revenue and \$418,943 in other passenger train accounts. Freight revenue of \$289,201,479 was the highest on record and compares with \$258,799,133 in 1946 and \$283,308,693 in 1943, the previous high. Operating expenses increased from \$310,311,372 to \$346,901,766 up \$36,590,394 or 11.8 p.c. with transportation charges advancing \$23,150,124 or by 14.5 p.c. to \$183,116,677. Maintenance of way and structures rose \$7,821,505 while maintenance of equipment was up \$5,122,187 over 1946 at \$69,675,104. Hire of equipment advanced \$2,445,393 and taxes \$1,385,967 and despite the record freight traffic, operating income declined from \$35,373,056 in 1946 to \$20,647,543. The United States lines registered considerable improvement over 1946 and a debit in operating income of \$3,814,109 in 1946 was changed to a credit of \$3,063,080 in 1947 due principally to advanced freight rates in the United States. Total operating income for the system was \$23,710,623 against \$31,558,947 in 1946 and does not include interest charges (which were some \$45,000,000 in 1946) and other income items.

**CANADIAN PACIFIC RAILWAY COMPANY:** Operating revenues were \$321,223,099 compared with \$294,545,601 in 1946, an improvement of \$26,677,498 or 9.1 p.c., while operating expenses increased by \$24,745,281 or 9.7 p.c. to \$279,520,795. Freight revenues registered a gain of \$32,328,383 at \$249,866,918 and were up 14.9 p.c. over 1946, but passenger revenue fell \$5,093,150 or 11.3 p.c. from the preceding year. Transportation charges for the year at \$133,952,979 were \$16,055,016 or 13.6 p.c. heavier while maintenance of way and structures increased \$4,285,999 at \$54,776,657 and maintenance of equipment rose \$3,086,323 to \$62,285,265. Taxes were down some \$700,000 and operating income showed a gain of \$2,049,139, rising from \$20,845,050 in 1946 to \$22,892,189 in the year under review. Revenue freight traffic measured in ton miles advanced by 10.8 p.c. while revenue passenger mileage declined 21.7 p.c. Pay roll at \$159,412,263 for 65,400 employees compared with \$147,764,775 for 64,192 in 1946, the average per employee increasing from \$2,302 to \$2,438 or by 6 p.c.

Subject to Revision

OPERATING REVENUES, EXPENSES AND STATISTICS OF CANADIAN RAILWAYS

For Twelve Months ended December 31, 1947

|   | ALL RAILWAYS   |                 | CANADIAN NATIONAL RAILWAYS |                | CANADIAN PACIFIC RAILWAY CO. |                 |
|---|----------------|-----------------|----------------------------|----------------|------------------------------|-----------------|
|   | 1 9 4 7        | 1 9 4 6         | 1 9 4 7                    | 1 9 4 6        | 1 9 4 7                      | 1 9 4 6         |
| <b>OPERATING REVENUES</b>                         |                |                 |                            |                |                              |                 |
| Freight   | \$ 602,022,383 | \$ 527,048,096  | \$ 289,201,479             | \$ 258,799,133 | \$ 249,866,918               | \$ 217,538,535  |
| Passenger   | 87,128,485     | 99,474,928      | 39,622,363                 | 46,097,577     | 39,906,621                   | 44,999,771      |
| Mail  | 8,694,345      | 8,505,122       | 3,830,045                  | 3,710,774      | 4,172,010                    | 4,170,574       |
| Express   | 29,934,515     | 27,481,788      | X 20,912,084               | X 19,479,846   | 7,307,324                    | 7,101,565       |
| Other passenger train                             | 9,613,731      | 10,551,868      | 3,898,600                  | 4,317,543      | 5,300,433                    | 5,999,189       |
| Water line  | 3,117,269      | 2,673,512       | -                          | -              | 1,479,893                    | 1,424,371       |
| All other   | 36,009,656     | 35,650,885      | 19,840,524                 | 19,296,330     | 12,989,900                   | 13,311,646      |
| Total Railway Operating Revenues                  | 776,520,384    | 711,386,199     | X 377,305,095              | X 351,701,203  | 321,223,099                  | 294,545,601     |
| <b>OPERATING EXPENSES</b>                         |                |                 |                            |                |                              |                 |
| Maintenance of way and structures                 | 132,304,531    | 120,899,410     | 65,492,809                 | 57,671,304     | 54,776,657                   | 50,492,658      |
| Maintenance of equipment                          | 144,345,093    | / 136,193,318   | 69,673,104                 | 64,550,917     | 62,285,265                   | 59,198,942      |
| Traffic   | 15,065,474     | 13,735,148      | 6,849,104                  | 6,331,936      | 7,073,114                    | 6,405,678       |
| Transportation                                    | 343,928,456    | 301,775,920     | 183,116,677                | 159,966,553    | 133,952,979                  | 117,897,963     |
| Miscellaneous operations                          | 12,619,239     | 13,514,776      | 3,950,768                  | 4,357,177      | 7,224,984                    | 7,879,733       |
| General   | 34,782,579     | 32,761,946      | 17,819,304                 | 17,433,485     | 14,207,796                   | 12,900,540      |
| Total Railway Operating Expenses                  | 683,045,372    | / 618,880,518   | 346,901,766                | 310,311,372    | 279,520,795                  | 254,775,514     |
| <b>OPERATING INCOME</b>                           |                |                 |                            |                |                              |                 |
| Net operating revenue                             | 93,475,012     | / 92,505,681    | 30,403,329                 | 41,389,831     | 41,702,304                   | 39,770,087      |
| Railway tax accruals                              | 25,681,766     | 23,974,185      | 5,504,975                  | 4,119,008      | 16,172,935                   | 16,877,264      |
| Hire of equipment                                 | Dr. 13,165,431 | Dr. 8,733,824   | Dr. 4,368,081              | Dr. 1,922,688  | Dr. 1,442,876                | Dr. 1,150,667   |
| Joint facilities rents                            | Dr. 1,904,308  | Dr. 1,690,393   | Cr. 117,270                | Cr. 24,921     | Dr. 1,194,304                | Dr. 899,106     |
| Operating income                                  | 52,723,507     | / 58,107,279    | 20,647,543                 | 35,373,056     | 22,892,189                   | 20,843,050      |
| <b>OPERATING STATISTICS</b>                       |                |                 |                            |                |                              |                 |
| Average miles of road operated                    | 42,549.35      | 42,562.94       | 21,729.61                  | 21,741.33      | 17,034.7                     | 17,056.3        |
| / No. of tons carried (Rev.Fr.)                   | 169,174,660    | 154,879,308     | 71,457,824                 | 66,010,011     | 59,034,547                   | 51,400,892      |
| No. of tons carried one mile " " Thous.           | 59,949,934     | 55,112,431      | 28,608,088                 | 26,966,941     | 26,201,731                   | 23,479,533      |
| No. of tons carried one mile (All Fr.) "          | 65,076,844     | / 59,882,508    | 31,569,995                 | 29,619,197     | 28,252,902                   | 25,503,062      |
| Gross ton miles, excl. of locomotive & tender "   | 138,026,748    | 128,009,354     | 66,709,636                 | 62,753,378     | 58,737,593                   | 53,887,046      |
| No. of revenue passengers carried                 | 38,122,771     | 40,487,660      | 19,838,823                 | 20,829,833     | 14,636,353                   | 15,583,990      |
| No. of revenue passengers carried one mile "      | 3,699,691      | 4,620,312       | 1,695,374                  | 2,103,111      | 1,665,585                    | 2,126,066       |
|   |                |                 |                            |                |                              |                 |
| Freight train miles                               | 81,822,912     | 77,298,582      | 38,900,869                 | 37,168,712     | 35,892,237                   | 33,683,991      |
| Passenger train miles                             | 44,753,275     | 45,144,522      | 21,515,326                 | 21,716,915     | 20,030,695                   | 20,230,251      |
| Total Train Miles (rev. and non rev.)             | 129,630,031    | 124,965,490     | 62,122,519                 | 60,394,912     | 56,860,562                   | 54,672,577      |
| Freight car miles - loaded                        | 2,159,759,956  | 2,004,997,176   | 1,059,080,781              | 996,530,934    | 904,552,841                  | 828,473,104     |
| Freight car miles - empty                         | 930,824,740    | 887,427,384     | 439,421,940                | 414,226,410    | 397,636,250                  | 384,319,137     |
| Passenger train car miles                         | 396,209,321    | 413,848,104     | 190,343,852                | 199,623,010    | 173,531,377                  | 182,089,039     |
| Total amount of pay roll                          | \$ 409,244,518 | 3/\$377,770,198 | \$ 223,487,966             | \$ 205,429,076 | \$ 159,412,263               | 1/\$147,764,775 |
| Number of employees                               | 173,078        | 168,914         | 97,531                     | 94,680         | 65,400                       | 64,192          |
| Pay roll chargeable to rly. operating expenses    | \$ 383,535,091 | 4/\$355,324,813 | \$ 206,524,421             | \$ 190,932,966 | \$ 151,790,688               | 2/\$140,874,155 |
| <b>DAILY AVERAGES PER MILE OF ROAD OPERATED</b>   |                |                 |                            |                |                              |                 |
| Operating revenue                                 | \$50.00        | \$45.79         | \$47.57                    | \$44.32        | \$51.66                      | \$47.37         |
| Operating expenses                                | \$43.98        | / \$39.84       | \$43.74                    | \$39.10        | \$44.36                      | \$40.97         |
| No. of tons moved one mile (Rev.Fr.)              | 3,860          | 3,548           | 3,607                      | 3,398          | 4,214                        | 3,776           |
| No. of tons moved one mile (All Fr.)              | 4,190          | / 3,855         | 3,980                      | 3,732          | 4,544                        | 4,101           |
| No. of revenue passengers carried one mile        | 238            | 297             | 214                        | 265            | 268                          | 342             |
| <b>AVERAGES PER FREIGHT TRAIN MILE</b>            |                |                 |                            |                |                              |                 |
| Freight revenue                                   | \$7.36         | \$6.82          | \$7.43                     | \$6.96         | \$6.96                       | \$6.46          |
| No. of tons of freight (Rev.Fr.)                  | 733            | 713             | 735                        | 726            | 730                          | 697             |
| No. of tons of freight (All Fr.)                  | 795            | 775             | 812                        | 797            | 787                          | 757             |
| Gross ton miles                                   | 1,687          | 1,656           | 1,715                      | 1,688          | 1,636                        | 1,600           |
| Loaded freight cars                               | 26.4           | 25.9            | 27.2                       | 26.8           | 25.2                         | 24.6            |
| Empty freight cars                                | 11.4           | 11.5            | 11.3                       | 11.1           | 11.1                         | 11.4            |
| <b>AVERAGES PER PASSENGER TRAIN MILE</b>          |                |                 |                            |                |                              |                 |
| Passenger train revenues                          | \$3.02         | \$3.23          | X \$3.17                   | X \$3.39       | \$2.94                       | \$3.08          |
| Passengers carried                                | 83             | 102             | 79                         | 97             | 83                           | 105             |
| Passenger cars                                    | 8.9            | 9.2             | 8.8                        | 9.2            | 8.7                          | 9.0             |
| Average operating expenses per train mile         | \$5.27         | \$4.95          | \$5.58                     | \$5.14         | \$4.92                       | \$4.66          |
| Average length of haul (Rev.Fr.) Miles            | 354            | 356             | 400                        | 409            | 444                          | 457             |
| Average passenger journey Miles                   | 97             | 114             | 85                         | 101            | 114                          | 136             |
| Average tons per loaded freight car mile          | 30.1           | 29.9            | 29.8                       | 29.7           | 31.2                         | 30.8            |
| Average freight receipt per revenue ton mile      | 1.004¢         | 0.956¢          | 1.011¢                     | 0.960¢         | 0.954¢                       | 0.927¢          |
| Average passenger receipt per passenger per mile  | 2.355¢         | 2.153¢          | 2.337¢                     | 2.192¢         | 2.396¢                       | 2.117¢          |
| Ratio of operating pay roll to operating revenues | 49.4%          | 49.9%           | 54.7%                      | 54.3%          | 47.3%                        | 47.8%           |
| Ratio of operating expenses to revenues           | 87.96%         | / 87.00%        | 91.94%                     | 88.23%         | 87.02%                       | 86.50%          |

/ Includes duplications.

X Includes gross express revenue.

1/ Includes \$6,242,249 retroactive pay from June - October.

2/ Includes \$6,178,835 retroactive pay from June - October.

3/ Includes \$6,242,249 retroactive pay C.P.R. from June - October

4/ " \$6,178,835 retroactive pay C.P.R. " " not shown in monthly reports.

/ Revised

not shown in monthly reports.

TWELVE MONTHS ENDED DECEMBER 31, 1947.



1010543327

CANADIAN NATIONAL SYSTEM

(Steam Lines in Canada and United States)

For Twelve Months ended December, 1947

|                              | 1947           | 1946           |
|------------------------------|----------------|----------------|
| <u>OPERATING REVENUES</u>    |                |                |
| Canadian Lines               | \$ 377,305,095 | \$ 351,701,203 |
| United States Lines          | 60,892,885     | 48,884,823     |
| Total                        | 438,197,980    | 400,586,026    |
| <u>OPERATING EXPENSES</u>    |                |                |
| Canadian Lines               | 346,901,766    | 310,311,372    |
| United States Lines          | 50,220,841     | 46,925,346     |
| Total                        | 397,122,607    | 357,236,718    |
| <u>NET OPERATING REVENUE</u> |                |                |
| Canadian Lines               | 30,403,329     | 41,389,831     |
| United States Lines          | 10,672,044     | 1,959,477      |
| Total                        | 41,075,373     | 43,349,308     |
| <u>OPERATING INCOME</u>      |                |                |
| Canadian Lines               | 20,647,543     | 35,373,056     |
| United States Lines          | 3,063,080      | Dr. 3,814,109  |
| Total                        | 23,710,623     | 31,558,947     |