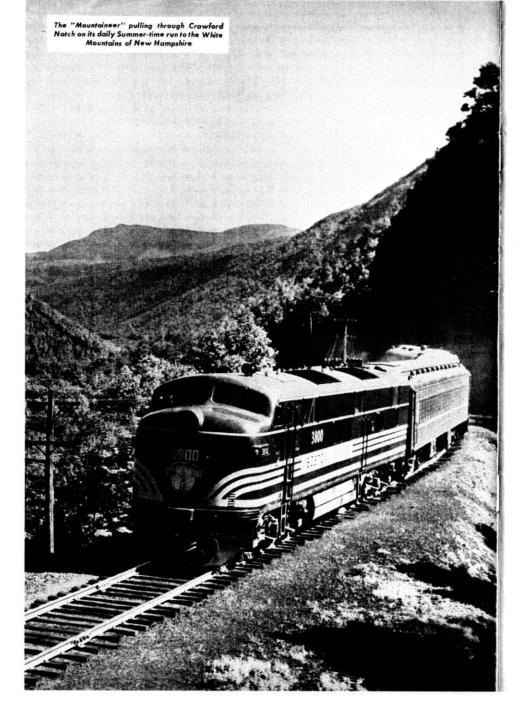


114th ANNUAL REPORT

Year Ending December 31, 1946



Jo the Owners of the Boston and Maine Railroad:

There is submitted to you in the following pages a brief résumé of your company's activities, and statements of the financial results of its operations, for the year 1946.

As it is the earnest desire of the management to have your comments or criticisms concerning the report, or to furnish information on any item of the report that may be of special interest, any communication from you along these lines will be welcomed.

It was stated in the Annual Report for 1945 that a Committee of your Board of Directors was engaged in a study looking to the development of a fair and equitable plan for the simplification of your company's capital stock structure. After much time and effort it is the Committee's unanimous conclusion that the development of such a plan at present is not possible, as the Boston and Maine is a solvent corporation and a recapitalization plan would have to be a voluntary procedure. Under the present laws favorable action on the part of each class of stock outstanding would be necessary, and even a small minority could prevent the consummation of a plan.

The Committee feels that the best and most feasible solution lies in the enactment of Federal legislation which would compel acceptance of a plan approved by a substantial majority of the stockholders and the Interstate Commerce Commission. It is hoped a bill with that object in view will shortly be introduced in Congress and that it may be acted upon favorably.

BOSTON and MAINE RAILROAD

BOARD of DIRECTORS:

| PHILIP R. ALLEN * East Walpole, Mass. |
|--|
| ROGER AMORY Boston, Mass. |
| LOUIS M. ATHERTON * Swampscott, Mass. |
| RICHARD L. BOWDITCH |
| HUGH J. CHISHOLM * Portland, Me. |
| T. JEFFERSON COOLIDGE Brookline, Mass. |
| FAIRMAN R. DICK New York, N. Y. |
| BERNARD W. DOYLE Leominster, Mass. |
| HARRY H. DUDLEY |
| FREDERIC C. DUMAINE, JR. * Weston, Mass. |
| RALPH E. FLANDERS † Springfield, Vt. |
| EDWARD S. FRENCH * |
| JAMES GARFIELD |
| ALDUS C. HIGGINS |
| HARVEY P. HOOD |
| ERNEST M. HOPKINS |
| AUGUSTUS P. LORING, JR Beverly, Mass. |
| JOHN R. McLANE * |
| ROY L. PATRICK * Burlington, Vt. |
| WILLIAM B. SKELTON Lewiston, Me. |
| J. DUNCAN UPHAM |
| *Member Executive Committee † Resigned January 1, 1947 |

ANNUAL REPORT for the year 1946

OFFICERS:

| President and Chairman of Executive Committee . | EDWARD S. FRENCH |
|--|------------------------------------|
| Assistant to President | R. M. EDGAR |
| Vice President — Finance and Accounting | W. S. TROWBRIDGE |
| Comptroller | G. F. GLACY |
| Treasurer | |
| Director of Budget | |
| Vice President — Operations. | I W SMITH |
| General Manager | F. W. ROURKE |
| | |
| Vice President — Purchases and Stores | A. W. MUNSTER |
| Purchasing Agent | H. M. RAINIE |
| * | |
| Vice President — Traffic | J. W. RIMMER |
| Freight Traffic Manager | P. J. MULLANEY |
| Passenger Traffic Manage. | C. F. PALMER |
| Chief Engineer | T C SUCURIUS |
| Assistant Chief Engineer | C. S. BODINGON |
| Troublant Chief Engineer | C. S. ROBINSON |
| General Counsel | R. J. FLETCHER |
| Clerk of Corporation | WM. J. BURNS |
| TRANSFER AGENTS: | |
| For all classes of stock OLD COLONY 45 MILK ST., | TRUST COMPANY, BOSTON, MASS. |
| For common stock | RUST COMPANY, AY, NEW YORK CITY |

INCOME ACCOUNT

(Condensed)

Equipment and Joint Facility Rents-Net Railway Operating Income Deductions: Interest on Debt — Fixed Interest . . . Interest on Unfunded Debt Income after Fixed Charges (Available Net d Indicates decrease.

| | | | | | | | | | | | | 1946 | | | | ncrea <i>Decre</i> rom 1 | ase | | Per Cent |
|---------|-----|----|-----|-----|----|-----|----|-----|-----|-------|----|------------|----|---|-----|--------------------------------|-----|-----|-------------|
| | | 6 | ē | į, | ÷ | | | i | | | S | 77,167,149 | 71 | d | \$5 | ,065, | 799 | 41 | 6.16 |
| | * | • | ē: | ٠ | 27 | 43 | | | | | | 64,126,323 | 36 | d | 6 | ,248, | 441 | 29 | 8.88 |
| | | r. | or: | | × | 4. | | | 154 | - 124 | S | 13,040,826 | 35 | _ | \$1 | ,182, | 641 | 88 | 9.97 |
| | · | ٠ | | ٠ | • | | | | , | | | 5,087,150 | 64 | | | 48, | 117 | 06 | .95 |
| | | | *** | | | | | | | | s | 7,953,675 | 71 | _ | \$1 | ,134, | 524 | .82 | 16.64 |
| Net Dr. | | | | | | | | | | | | 3,456,701 | | | | 198, | 227 | 53 | 6.08 |
| a a a a | | | | · . | | | - | | | | s | 4,496,974 | 63 | | s | 936, | 297 | 29 | 26.30 |
| | | | | | | | | | | | | 1,371,145 | | | | 83,0 |)16 | 75 | 6.44 |
| a a a a | | , | | | , | æ | | 7.5 | 8.9 | | \$ | 5,868,119 | 75 | _ | \$1 | ,019, | 314 | 04 | 21.02 |
| | | | | | 4 | 12 | 24 | - | 92 | | s | 981,061 | 23 | d | \$ | 75,8 | 855 | 88 | 7.18 |
| | | | | | | 200 | 16 | | | | | 2,773,809 | | d | | 113.6 | | | 3.94 |
| | | | | | | | | ٠, | | ٠. | | 12,106 | 55 | d | | 6,8 | 88 | 16 | 35.24 |
| ž 2 z z | æ 3 | | * | ÷ | æ | ÷ | æ | is. | 2.5 | × | | 136,494 | 63 | | | 3,6 | 592 | 80 | 2.78 |
| * * * * | (t) | | , | | | 29 | 25 | | | | \$ | 3,903,471 | 69 | d | \$ | 192,4 | 405 | 84 | 4.70 |
| Income) | | | | × | | | × | | | | s | 1,964,648 | 06 | | \$1 | ,211,7 | 19 | 88 | 160.93 |

Income after Fixed Charges (Available Net Income) has been allocated in accordance with Mortgage Indentures to the following purposes:

Sinking Fund for Redemption of Series RR Bonds Interest on Income Bonds Series A: Accrued for period, Jan. 1 to Dec. 31, 1946 at 4½% . . . Sinking Fund for Redemption of Series A Bonds (see note)

Note. — Annual requirement of Sinking Fund for redemption of Series A Bonds amounts to \$482,870. Earnings were sufficient to allocate only \$34,143.86 for this purpose.

5

CAPITAL STOCK

The number of shares of Capital Stock of all classes outstanding December 31, 1946, including fully-paid negotiable receipts for subscriptions to Prior Preference Stock, was unchanged at 1,046,113 shares, of a par value of \$104,611,300.

CHANGES IN LONG-TERM DEBT

Long-Term Debt, exclusive of Equipment Obligations, outstanding in hands of Public on December 31, 1946 amounted to \$89,867,800, a decrease of \$5,229,200 since December 31, 1945.

DECREASE IN LONG-TERM DEBT

| Funded Debt reacquired and Canc | elled: | |
|--|---|---|
| Series RR 1st Mtge. 4% Bonds | | |
| due 7/1/60 | \$3,200,600.00 | |
| Matured Funded Debt Paid Off: | | |
| Series EE Gen. Mtge. 5% Bonds | | |
| paid 1/1/46 | 6,000.00 | |
| Increase in Treasury Holdings of | | |
| Bonds (not cancelled) | 2,022,600.00 | |
| D | | |
| | | 05 220 200 00 |
| | | \$5,229,200.00 |
| The Control of the Co | | |
| 9 | | |
| | \$6.864.679.00 | * |
| | 90,004,079.00 | |
| | | |
| | 2.630.324.68 | 4,234,354.32 |
| , | | |
| Net Decrease in Long-term Debt | | |
| in Hands of Public | | \$ 994,845.68 |
| | | |
| | | |
| in lieu of Mortgaged Property Sold | Company, Trustee, | \$661,000.00 |
| | Series RR 1st Mtge. 4% Bonds due 7/1/60 | due 7/1/60 \$3,200,600.00 Matured Funded Debt Paid Off: Series EE Gen. Mtge. 5% Bonds paid 1/1/46 6,000.00 Increase in Treasury Holdings of Bonds (not cancelled) 2,022,600.00 Decrease Funded Debt in hands of Public Increase in amount of Equipment Obligations account new equipment received during the year \$6,864,679.00 Decrease in Equipment Obligations account installment payments during the year 2,630,324.68 Net Decrease in Long-term Debt |

FREIGHT TRAFFIC



Freight revenue for the year was \$53,766,933.88, 3.2% below 1945, but 20.2% above 1941, the last year of conditions at all comparable to 1946.

Revenue tons of freight handled were 23,620,692, 6.7% below 1945, but 13.4% above 1941.

Average revenue per net ton was \$2.28, 4.1% above 1945 and 6.0% above 1941.

Despite the retarding influences of labor troubles, especially in the basic industries, almost constant car shortages and recurring embargoes, our freight revenue was the highest of any peacetime year in Boston and Maine history. Our freight volume in the first two months of the year was affected by strikes in the steel and other heavy industries, the effects of which were reflected in the output of almost every form of manufacturing. Volume increased substantially in the early spring and then was set back successively by the long bituminous coal strike, the rail strike and the short strike in the anthracite coal mines. During the summer it again gained momentum and the level throughout the fall was considerably above that of the previous year.

The return movement of war materials from the European theatre through the New England ports disappeared during the spring. The volume of all-rail coal was approximately the same as during the previous year, the loss in bituminous due to the long strike in the spring and the shorter strike in the fall being offset by a 16% increase in anthracite. Petroleum products, which resumed their normal movement from New England ports to the interior during the summer of 1945, moved in approximately the same volume as in the years immediately preceding the war.

During the spring the rail carriers throughout the country petitioned the Interstate Commerce Commission for a general increase in freight rates of 25%, with exceptions on certain commodities. On July 1st the Commission permitted an interim adjustment to become effective, increasing the base rates in this territory approximately 11%, with lesser increases interterritorially and on specified agricultural and animal products and certain bulk commodities. It is estimated that this re-

sulted in an over-all increase of about $7\frac{1}{2}\frac{C_0}{C_0}$ in our freight rate level during the last half of the year.

Further increases in freight rates were allowed to become effective on January 1, 1947 by the Interstate Commerce Commission's decision in Ex Parte 162–148. The amounts of these increases vary widely. An increase of 25% was authorized on most accessorial charges and on less-than-carload freight and carloads of high-grade commodities moving on class rates in Eastern territory. Lower percentage increases were authorized interterritorially and on agricultural products, animal products and low-grade commodities generally. These increases supplanted, and were not in addition to, those of July 1, 1946. The Commission estimated that the adjustment would raise the freight rates of the railroads in the entire country an average of 17.6% and those of the eastern railroads an average of 17.9% over the June 30, 1946 level.

The decision of the Interstate Commerce Commission prescribing a uniform basis of class rates for the entire territory east of the Rocky Mountains, and ordering into effect an interim adjustment of such rates, was described in the annual report for the year 1945. At the close of that year a proceeding to enjoin this decision was pending in a United States District Court in New York. In 1946 the District Court upheld the Commission's decision in its entirety, and an appeal was taken to the United States Supreme Court where the matter is now awaiting decision. In the meantime, the effective date of the Commission's order has been stayed.

INDUSTRIAL DEPARTMENT



The Industrial Department during 1946 had its most active year since its organization. It is expected that approximately 25,000 carloads per year will develop as a result of the establishment of over 150 new accounts on property served by B&M lines, including the construction of 39 new plants and additions to 18 existing plants. Also, engineering was completed on 27 other industrial projects which will probably be built

during 1947. There were 79 sidetrack installations arranged for, involving construction of new sidings and extensions of sidings already in use.

PASSENGER TRAFFIC



Passenger revenue for the year was \$16,754,-982.83, a decline of 13% from 1945, but approximately double that of 1941, which indicates the extent to which we have held the civilian travel that came to us during the war years. There were some military movements over our line early in the year, but they ended in the spring with the closing of Fort Devens as a military post. The decline in revenue from civilian

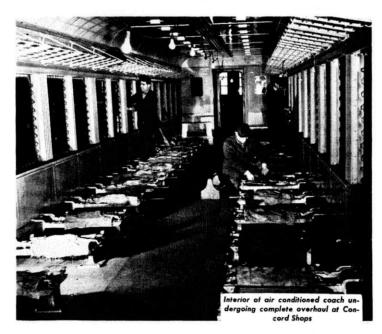
travel was in long-distance movements, and became more severe as the year progressed. Commutation business actually increased despite a substantial reduction in Saturday commuting service, consistent with the more general five-day working week. During the year one train a day each way between Boston and Portland was discontinued, eliminating a round-trip which had been added during the war. A few lightly patronized trains in the Boston area were also discontinued.

The railroad strike in May and two coal strikes during the year affected passenger revenue adversely. On May 10 the Office of Defense Transportation ordered the cancellation of 25% of coal-burning locomotive mileage to conserve fuel. The restriction continued until May 31 and caused a substantial reduction in our passenger operations. The second coal strike resulted in another order to curtail coal-burning locomotive mileage, and ran from November 24 to December 9. This was accomplished with little reduction in service through reassignment of the Diesel locomotives which had been delivered to us during the summer.

Sleeping cars which had been discontinued in 1945 by government order were restored early in the year, following removal of the restriction.

Popular pre-war summer trains resumed operation in 1946. These included the daytime East Wind and the night Bar Harbor Express, operated jointly with our connections between Washington, New York, and State of Maine points.

The North Wind, a new fast daytime coach and parlor car train between New York and the White Mountains Region via the Connecticut River Line, operated during the summer season with gratifying re-



sults. The Mountaineer, between Boston and the White Mountains, ran daily this summer with deluxe coaches and parlor-diner in place of the Streamline train previously used in this service. Use of this equipment greatly increased the seating capacity, resulting in a higher number of passengers for the season.

Race trains, football extras, and other special-event trains were operated and well patronized.

On December 1 the operation of our sleeping car between Boston and Chicago was discontinued. Schedule difficulties eastbound, and lack of patronage, led to this change, which made it possible to run the eastbound Minute Man from Troy to Boston on a schedule which improved the service to communities along this line.

Diesel locomotives have made faster schedules possible on some of our featured trains, and have improved the performance of others.

The 10% increase in basic passenger fares, granted by the Interstate Commerce Commission in 1942, was made permanent in the decision of the Commission in Ex Parte 162–148 issued on December 5, 1946, except for commutation fares on which the increase was suspended in 1943.

MILK TRAFFIC

Milk revenue was \$1,204,662.91, an increase of 3.7% over 1945, though the volume handled was 7.8% less than in the previous year. This was due to a change in the distribution of the traffic and higher rates during the last half of 1946.

Our volume was reduced considerably by the closing of Fort Devens and other military establishments where the per capita consumption of milk was high.

During the first eight months we handled the largest amount of milk and cream from the West in the history of the railroad, due in large measure to increased demand with the lifting of wartime restrictions. Reduced consumption late in the year made it unnecessary to move milk into New England from the West.

Milk rates were increased about 8% effective July 1, 1946 under the interim adjustment in Ex Parte 162–148, and this increase became 15% on January 1, 1947, as a result of the Interstate Commerce Commission's decision in that case.

EXPRESS TRAFFIC

Revenue from express traffic declined from \$1,238,352.04 in 1945 to \$286,288.11 in 1946.

Revenue from this source is derived from the railroad-owned Railway Express Agency. The Agency's payments to the railroads for hauling express depend upon the excess of its revenues over its expenses.

The wage increase of the employees of the Express Agency which was made retroactive to January 1, 1946, together with a general increase in other terminal costs, resulted in these expenses rising to almost the total operating revenue, leaving a very small amount to be paid to the railroads.

A general temporary increase in express rates, authorized by the Interstate Commerce Commission, became effective December 13 and averaged about 17½%. Permanent and probably greater increases will be sought, and in view of the manner in which payments to the railroads are made, if volume is maintained the increased rates should increase our revenue from this source in excess of the actual percentage amount of the rate increase.

PROPOSED PURCHASE BY RAILROADS OF THE PULLMAN COMPANY

In the annual report for 1945, the agreement of a number of railroads, including the Boston and Maine, to purchase all of the capital



stock of the Pullman Company was described, and it was stated that the offer contemplated by this agreement had been accepted by Pullman, Inc., and approved by the United States Circuit Court of Appeals for the Third Circuit. In 1946 this action by the Circuit Court of Appeals was appealed by the United States Government, and the case is now pending in the United States Supreme Court. Until a decision is rendered by that Court, the method of future operation of sleeping cars by the Boston and Maine is uncertain.

ACQUISITIONS AND DISPOSALS OF LINES

Continued progress has been made during the year in the acquisition of leased lines with resulting savings to the company and continued simplification of its corporate structure. The authorization of the Interstate Commerce Commission to purchase a portion of The Connecticut and Passumpsic Rivers Railroad Company was obtained and, pursuant to such authority, your company acquired the line between White River Junction and Wells River, Vermont. The portion of The Connecticut and Passumpsic north of Wells River, Vermont, together with its interests in Newport & Richford Railroad Company and various lines located in Canada, was sold by the Connecticut and Passumpsic to the Canadian Pacific Railway Company, which had been operating all of such lines for a number of years.

With the authorization of the Interstate Commerce Commission, the company completed the purchase of the physical properties and franchises of the Troy & Bennington Railroad Company, which purchase was authorized by the Boston and Maine stockholders at their 1946 annual meeting. Application was made to the Interstate Commerce Commission for authority to purchase the physical properties and franchises of the Pemigewasset Valley Railroad, and such purchase was approved by the Commission in December, 1946. The completion of this purchase is expected to take place early in 1947.

During the year 1946 the reorganization proceedings of The St. Johnsbury & Lake Champlain Railroad Company were completed and all of the securities (consisting of first and second mortgage bonds and common stock) of the new Company, St. Johnsbury & Lake Champlain Railroad, were issued to the Boston and Maine in partial satisfaction of its prior claim on the assets of the debtor road. By subsequent transfer of the common stock to three individuals, control of that property is now in the hands of local interests.

A group of Barre manufacturers and quarry operators have purchased from the Sortwell Estate 60% of the outstanding stock of the Barre & Chelsea Railroad Co., your company's ownership in that property remaining at 40%.

OPERATING RESULTS

Gross ton miles, which represent the volume of work produced in freight train service and is one of the indices used to measure the efficiency of freight train operation, was under the corresponding figure for 1945 by about 10%, but while the last three years were considerably under the volume of 1943, the averages of train load, train speed and gross ton miles per train hour have held closely to the all-time peaks for these items.

CHANGES IN EQUIPMENT

During the year 39 Diesel locomotives were added to our previous ownership, increasing our Diesel ownership to 102 units as of December 31.

| | Ownership Jan. 1, 1946 | Added During 1946 | Ownership Dec. 31, 1946 |
|---------------------|---------------------------|----------------------|----------------------------|
| Road — 2700 H.P. | 24 | 3 | 27 |
| Road — 1350 H.P. | | 15 | 15 |
| Road — 2000 H.P. | 2 | 14 | 16 |
| Yard — 1000 H.P. | 11 | 3 | 14 |
| Yard — 600-660 H.P. | 18 | 4 | 22 |
| Vard — 380 H.P. | $\frac{8}{63}$ | <u> </u> | 8 |
| | | 39 | 102 |
| | 13 | == | ==== |

During the last few months of 1946 after all Diesel units had been delivered, 60% of the train miles and 80% of the gross ton miles in freight service were operated with Diesels. In passenger service, 30% of the train miles and 39% of the passenger train car miles were operated with Diesel units.

The extent of fuel savings alone by the transition from steam to Diesel power may best be illustrated by the statement that if the total gross ton miles and total passenger car miles for the full year had been operated entirely with steam locomotives, the operating expense account covering fuel for road locomotives would have been greater by about \$1,750,000.

Steam locomotive ownership is now 377, since 39 were sold or retired during the year.

Eight electric locomotives formerly used in Hoosac Tunnel were all retired and all through trains, both freight and passenger, between Mechanicville, Troy and Boston are handled by Diesel locomotives.

Revenue freight car ownership on December 31, 1946 was 6165. During the year 20 seventy-ton covered hoppers were added, while 264 cars were retired because of age and condition, 4 were accidentally destroyed on foreign lines, and 32 were converted to non-revenue service. There are on order for 1947 delivery 500 steel 50-ton box cars.

The application of A.B. brakes under Interstate Commerce Commission Order (completion date January 1, 1949) continued, 4590 cars, or 75% of the interchange ownership having been equipped by the end of the year.

Ownership at the close of 1946 was 1188 passenger cars. In August 63 steel coaches and 12 steel combination passenger and baggage cars were purchased from the Reading Railroad. This additional equipment plus 10 more of the combination cars to be acquired early in 1947 will make possible the handling of all through passengers in all-steel cars. Approximately 100 of the oldest coaches are to be retired from service, 36 having been scrapped in 1946. Others will be scrapped or converted for non-revenue service as they come due for repairs.

Twelve stainless steel DeLuxe cars for the Boston-Bangor service are on order and delivery is expected early in 1947. These, with 12 of the same type cars to be owned by the Maine Central Railroad will be operated as the "Pine Tree," "Flying Yankee" and "Kennebec."

Two new cranes and a snow-melting unit were added during 1946. Many of the older work units will be replaced during 1947 by suitable cars retired from passenger service.

WAGE INCREASES

On April 3, 1946 a wage increase of 16¢ an hour for non-operating employees and \$1.28 per basic day for certain of the operating employees, retroactive to January 1, 1946, was awarded by two Railway Labor Arbitration Boards. These awards were unacceptable to the Unions. A Fact Finding Board appointed to hear the demands of two remaining Operating Unions also recommended on April 18 an increase of 16¢ an hour. These two Unions, the Brotherhood of Locomotive Engineers and Brotherhood of Railroad Trainmen, were unwilling to accept the award and voted to strike, effective May 18. An appeal by President Truman secured a 5-day truce and he offered a compromise plan recommending the acceptance of the 16¢ an hour previously awarded, plus $2\frac{1}{2}$ ¢ an hour, effective May 22, in lieu of any rule changes for a period of one year. The railroad managements and eighteen Unions accepted this proposal but the two above named Brotherhoods rejected it, resulting in a nation-wide strike on May 23, which was settled two days later on the basis of the President's recommendations outlined above.

The 18½¢ an hour increase is estimated to have added \$7,375,000 in wages, plus \$369,000 in payroll taxes to the Boston and Maine's payroll costs for the year.

MATERIALS AND SUPPLIES

Because of two shutdowns at the mines during the year, plus a short car supply, it was impossible to get all good quality coal and we were obliged to accept a substantial tonnage of stripping coal. Purchases of locomotive coal were 583,000 net tons as against 716,300 net tons in the previous year, while the average cost f.o.b. line of B. & M. road was \$6.02 per net ton in 1946, an increase of 33.6¢ per net ton over 1945 and an increase of \$1.22 per net ton over 1941.

Diesel fuel oil was in ample supply though the average price declined but slightly as compared with the 1945 average. Our purchases were 14,699,773 gallons in 1946 at an average of 6.33¢ per gallon as against 11,505,555 gallons in 1945 at an average of 6.65¢ per gallon.

The average weighted increases in the price of materials and supplies continued to advance during the year. On December 31, 1946 this weighted increase was 9.06% over December 1, 1946, 28.56% over November 1, 1945 and 53.91% over June 1, 1941.

The total purchases of materials and supplies, including coal but excluding new equipment, amounted to \$12,575,495 in 1946 as compared with \$13,477,105 in 1945.

TAXES



Taxes deducted from 1946 earnings amounted to \$5,096,150.64 as compared with similar deductions in 1945 of \$5,047,949.58. No provisions for 1946 income tax payment were necessary, the small amount of taxable earnings being offset by deductible surplus adjustments covering property retirements, etc.

Railroad Retirement and Unemployment Insurance taxes paid to the Federal Government by the

railroad with respect to 1946 payrolls amounted to \$2,800,366.85, an average of \$195.86 per employee.

Acting as a collection agency for the Federal Government the railroad withheld from employees or collected from others, including withholding taxes, transportation taxes on persons and properties, and proportion of Railroad Retirement taxes, a total of \$9,808,681.58.

The Crosser Bill, enacted by Congress and signed by the President on July 31, 1946, makes radical and extravagant enlargements and extensions of present benefits under the Unemployment Insurance and Railroad Retirement Acts, which were already highly preferential for railroad employees over systems set up for employees of other industries.

The Unemployment Insurance Act heretofore has provided benefit payments only if the employee was able and willing to work. The new law provides sickness benefits, including pregnancy and maternity payments for female employees. The number of weeks for unemployment benefits has been extended from 20 to 26 at increased daily benefit rates.

Under the Railroad Retirement Act coverage is extended to many individuals who are only indirectly connected with the railroad industry. Disability and minimum annuities have been increased, provision is made for a new system of annuities for survivors of employees, and retirement age for female employees is lowered. The carriers' tax under both Acts has been increased, effective January 1, 1947, from $6\frac{1}{2}\frac{C}{6}$ to $8\frac{3}{4}\frac{C}{6}$ of the pay of each employee up to \$300 per month, and progresses to $9\frac{1}{4}\frac{C}{6}$ in 1952. It is estimated that, based on 1946 payrolls, the increased costs to your company will be \$970,000 in 1947.

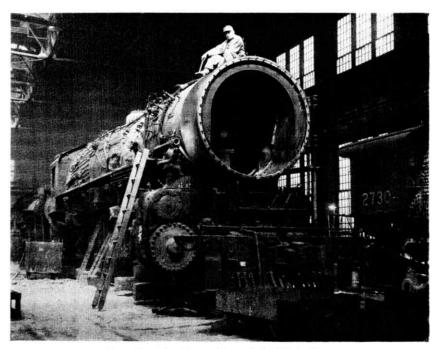
ADDITIONS AND BETTERMENTS



Approximately 4000 tons of new 112 lb. rail were laid in the Fitchburg Division main line between Westminster and Ayer, Mass.; 11.2 single track miles of existing stone ballast were resurfaced; and by means of a modern ballast cleaning machine 217.5 single track miles of stone ballast were cleaned. By the use of a Rail Detector Car 1219 miles of main line track and important branches were inspected for hidden internal

rail defects. About 9000 tons of riprap were installed at various locations to protect embankments.

Two track bridges were renewed and 3 others strengthened and improved; an underpass bridge at Hadley, Mass. was retired and replaced with a new grade crossing to relieve a dangerous highway condition; one overhead bridge was rebuilt and at Baldwinville, Mass, the State con-



Locomotive undergoing complete overhaul at Billerica Shops

Annual Report for the Year 1946

structed a steel and concrete overhead highway bridge eliminating a grade crossing. Three other grade crossings were closed during the year.

To provide improved highway crossing protection there were installed: Automatic gates with flashers at 2 crossings; automatic flashers at 1 crossing previously unprotected; electric lights on manually operated gates at 4 crossings; and additional or improved warnings for gate tenders at 15 crossings.

A modern centralized traffic control system was installed extending from the East Portal of Hoosac Tunnel to Hoosick Junction, N. Y., and all electric zone facilities in the Hoosac Tunnel area have been retired, operations now being conducted with Diesel power. Modern color light signals respaced to provide adequate braking distances were installed between Mechanicville and Crescent, N. Y., replacing old semaphore type block signals.

Forty-one portable telephone sets were purchased to enable section car crews to communicate with Dispatchers.

New or improved automobile unloading facilities were installed in many locations and numerous other improvements were carried out throughout the system. Two hundred ninety-four new units of major work equipment were purchased.

Continuing a program of many years standing, approximately 11,000 cubic yards of filling material were placed in the Boston Terminal Areas.

RETURN ON INVESTED CAPITAL

In spite of the fact that in 1946 the freight revenues of the Boston & Maine were the highest of any peacetime year in its history, earnings were sufficient only to cover fixed charges, sinking fund requirements of the First Mortgage, contingent interest on the Income Mortgage Bonds, and a small balance toward the Income Mortgage sinking fund. No balance remained available for the stock. The reason for this unfavorable showing was obviously due to the failure of the Interstate Commerce Commission promptly to authorize adequate increases in rates as an offset to increased costs of labor and materials.

The earnings for the railroads as a whole for 1946 were only approximately $2\sqrt[3]{4}\%$ on investment in road and equipment, less accrued depreciation. Such a level of earnings is wholly inconsistent with sound credit conditions, especially when it is recognized that over the last twenty-five years the railroad return on investment has averaged only

about $3\frac{1}{4}\%$ as compared with over 8% in manufacturing corporations and 6% in public utility corporations.

The effect of such a long period of inadequate earnings on railroad credit is most serious. The railroads must be permitted to earn far more if they are to attract the capital necessary for the improvement and modernization of the railroad plant.

RETIREMENTS

During the year the policy of retiring unused or unnecessary structures has been continued. Five passenger stations were retired and small structures substituted therefor. In addition 28 miscellaneous buildings, 2 locomotive water facilities and 18 other items, platforms, retaining walls, cattle pens, etc., as well as unused sidetracks at various locations were retired.

Mr. Arthur B. Nichols, Vice President and Clerk of Corporation, reached retirement age on August 27, 1946. Having given to the Boston and Maine Railroad over fifty-two years of loyal and efficient service, the severance of his official connection with the company is a matter of real regret, but he has well earned the leisure which is now his.

It is again a pleasure for your Board of Directors to express its appreciation for the continued splendid support received from the customers of the Railroad, both freight and passenger, and to the officers and employees of the Railroad who have labored so loyally and efficiently in the interests of the Company.

For the Board of Directors

President

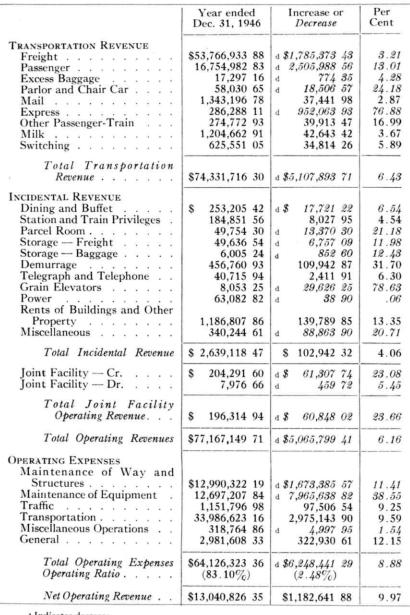
Boston, Massachusetts February 25, 1947

| Assets | * | Condensed General. | Balance Sheet Liabiliti | es | |
|---|---|---|--|---|---|
| ROAD AND EQUIPMENT | Dec. 31, 1946 | Dec. 31, 1945 | CAPITAL STOCK | Dec. 31, 1946 | Dec. 31, 1945 |
| Investment in Road | \$184,603,196 73 61,386,483 37 | \$180,951,801 19 57,190,558 75 | Common Stock — 395,051 Shares Preferred Stock — 31,498 Shares First Preferred Stock — 388,179 Shares | 3,149,800 00 | \$ 39,505,100 00 3,149,800 00 38,817,900 00 |
| Total | \$245,989,680 10 | \$238,142,359 94 | Prior Preference Stock (Includes Negotiable Receipts | | 23,138,500 00 |
| Improvements on Leased Property Acquisition Adjustment Donations and Grants | 13,942,729 69 c 4,935,917 35 c 69,997 60 | | Total Capital Stock | 4,227,040 14 | \$104,611,300 00 4,227,040 14 |
| | | ļ i | Total Capital Stock and Premiums | . \$108,838,340 14 | \$108,838,340 14 |
| Total Investment in Transportation Property . | \$254,926,494 84 | \$249,270,203 84 | Stock Liability for Conversion | . \$ 1,200 00 | \$ 1,400 00 |
| Accrued Depreciation — Road and Equipment Accrued Amortization of Defense Projects — Road and Equipment | c 23,464,172 14 c 10,653,192 05 | c 23,406,561 40 c 10,685,838 43 | LONG-TERM DEBT Funded Debt Unmatured Equipment Trust Certificates Lease and Purchase Agreements — Equipment | . \$ 94,536,600 00 522,000 00 | \$ 97,743,200 00 696,000 00 |
| Investment in Transportation Property less Re- corded Depreciation and Amortization | \$220,809,130 65 | \$215,177,804 01 | Lease and Purchase Agreements — Equipment . Total Long-Term Debt | | 6,713,165 87 \$105,152,365 87 |
| Sinking Funds Capital and Other Reserve Funds Miscellaneous Physical Property Investments in Affiliated Companies Other Investments | 3,114 79 919,344 27 403,288 80 7,514,620 85 22,452 28 | 3,112 79 1,027,680 07 393,420 46 6,928,277 47 3,564,409 54 | CURRENT LIABILITIES Traffic and Car Service Balances — Net Payable Audited Accounts and Wages Payable Miscellaneous Accounts Payable | \$ 4,396,325 78 2,777,250 65 2,068,064 65 | \$ 4,929,072 98 2,910,401 77 1,915,107 98 1,406,022 11 |
| Total Investments | \$229,671,951 64 | \$227,094,704 34 | Interest Matured Unpaid Dividends Matured Unpaid Unmatured Interest Accrued Accrued Accounts Payable Accrued Tax Liability | . 530,105 05 2,217,034 66 | 13,757 12 1,384,162 95 1,191,409 68 3,901,783 45 |
| Cash Cash in Transit — Agents' Remittances Temporary Cash Investments | \$ 6,710,489 94 745,044 85 6,115,000 00 | \$ 10,254,924 59 576,968 77 7,115,000 00 | Other Current Liabilities | | 95,950 39 \$ 17,747,668 43 |
| Special Deposits Loans and Bills Receivable Net Balance Receivable from Agents and Conductors Miscellaneous Accounts Receivable Material and Supplies | 2,114,472 99 11,000 00 2,064,329 89 3,088,095 20 4,885,437 39 | 1,067,439 33 1,898,769 62 5,965,463 73 4,249,738 88 | DEFERRED LIABILITIES Due to Leased Roads at Expiration of Leases. New York State E. G. C. Projects Other Deferred Liabilities | . \$ 349,933 65 | \$ 209,988 70 358,507 36 25,674 37 |
| Interest and Dividends Receivable Accrued Accounts Receivable Other Current Assets | 136,902 23 449,453 10 45,010 69 | 121,660 86 1,208,606 74 36,353 33 | Total Deferred Liabilities | . \$ 396,709 73 | \$ 594,170 43 |
| Total Current Assets | \$ 26,365,236 28 | \$ 32,494,925 85 | UNADJUSTED CREDITS Insurance Reserves Accrued Depreciation — Leased Property Other Unadjusted Credits | 523.079 07 | \$ 50,000 00 397,956 67 419,341 81 |
| Working Fund Advances Insurance and Other Funds Other Deferred Assets | \$ 13,827 58 1,757,226 97 452,941 90 | \$ 13,424 17 1,040,056 36 1,364,888 12 | Total Unadjusted Credits | | \$ 867,298 48 |
| Total Deferred Assets | \$ 2,223,996 45 | \$ 2,418,368 65 | June 30, 1907. Funded Debt Retired through Income and Surplu Sinking Fund Reserves | \$ 14,822,146 85 15,890,805 53 37,309 09 | \$ 14,822,146 85 14,532,653 97 682,214 79 |
| UNADJUSTED DEBITS Prepayments Discount on Funded Debt Other Unadjusted Debits Securities Issued or Assumed — Unpledged Securities Issued or Assumed — Pledged | \$ 184,080 65 482,274 89 544,797 76 3,757,000 00 | \$ 123,201 36 534,545 72 466,863 94 1,854,600 00 396,000 00 | Miscellaneous Fund Reserves. Appropriated Surplus — Purchase of Leased Lin Bonds. Total Appropriated Surplus. Unearned Surplus. | 1,053,626 14 357,000 00 \$ 32,160,887 61 | 920,998 41 357,000 00 \$ 31,315,014 02 598,088 04 |
| Total Unadjusted Debits | \$ 4,968,153 30 | \$ 3,375,211 02 | Earned Surplus (a) | d 756,707 36 | 268,864 45 |
| Grand Total | \$263,229,337 67 | \$265,383,209 86 | Total Surplus | | \$ 32,181,966 51 \$265,383,209 86 |
| SHARE AND A CALCADA CALA CALA | | Q230,000,207 00 | Seanu Louis | 9203,229,331 01 | \$405,565,409 80 |

c Indicates Credit Balance.

 $⁽a) \ Includes \ Surplus \ Earned \ by \ Lessor \ Companies \ before \ Consolidation.$ d Indicates Debit Balance.



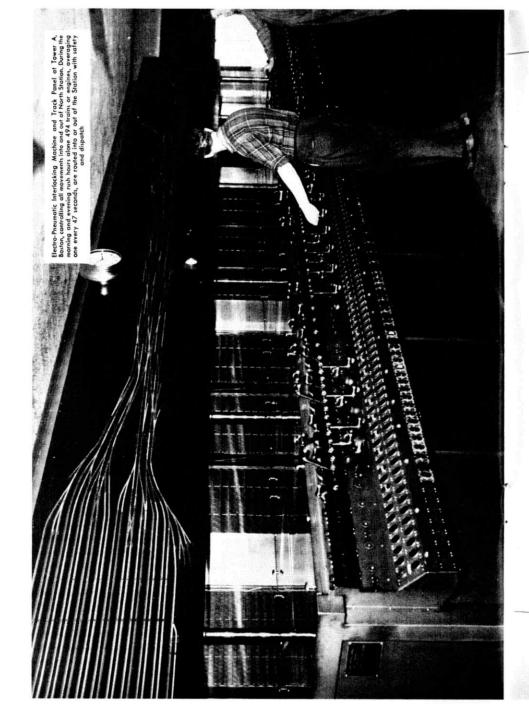


| ٠ | | | | - 3 | | | |
|---|----|-----|-----|-----|-----|-----|-----|
| I | nd | ica | tes | C | ecr | rea | se. |

| | Year ended Dec. 31, 1946 | Increase or Decrease | Per Cent | | | Year ended Dec. 31, 1946 | Increase or Decrease | Per Cent |
|--|--------------------------------------|------------------------------------|------------------------|---|---|-----------------------------|-------------------------|---------------|
| TAX ACCRUALS | \$5,087,150 64 | \$ 48,117 06 | .95 | | Miscellaneous Deductions | | | |
| Operating Income | \$7,953,675 71 | \$1,134,524 82 | 16.64 | | FROM INCOME Miscellaneous Rents | \$ 9,354 71 | | 4.75 |
| Rent from Locomotives Rent from Passenger-Train | \$ 58,483 17 | \$ 16,495 27 | 39.29 | | Miscellaneous Tax Accruals . Miscellaneous Income Charges | 9,000 00 21,034 94 | 84 00 16,855 25 | .94 44.48 |
| Cars | 15,461 63 | d 180,364 39 d 1,796 40 | 21.70 10.41 1.00 | , | Income Applied to Sinking and Other Reserve Funds | 76,111 48 | 21,740 98 | 39.99 |
| Joint Facility Rent Income | 354,131 01 \$1,078,901 51 | d 3,560 00 d \$ 169,225 52 | 13.56 | | Total Miscellaneous De- ductions | \$ 115,501 13 | \$ 4,502 75 | 4.06 |
| Hire of Freight Cars — Debit Balance | \$3,273,325 82 2,327 33 | d \$ 6,012 19 854 93 | .18 | | Income Available for Fixed Charges | \$5,752,618 62 | \$1,014,811 29 | 21.42 |
| Rent for Locomotives | 632,614 76 2,218 19 625,116 49 | 11,287 15 1,958 33 20,913 79 | 1.82 753.61 3.46 | | Fixed Charges Rent for Leased Roads | \$ 971,706 52 | d \$ 75,388 90 | 7.20 |
| Total Rents Payable | \$4,535,602 59 | \$ 29,002 01 | . 64 | | Interest on Funded Debt — Fixed Interest Interest on Unfunded Debt . | 2,773,809 28 12,106 55 | | 3.94 35.24 |
| Net Rents Payable | \$3,456,701 08 | \$ 198,227 53 | 6.08 | | Amortization of Discount on Funded Debt | 30,348 21 | | 4.04 |
| Net Railway Operating Income | \$4,496,974 63 | \$ 936,297 29 | 26.30 | | Total Fixed Charges | \$3,787,970 56 | d \$ 196,908 59 | 4.94 |
| OTHER INCOME Income from Lease of Road and Equipment | \$ 270,811 83 | d \$ 47,345 83 | 14.88 | | Income after Fixed Charges (Available Net Income) | \$1,964,648 06 | \$1,211,719 88 | 160.93 |
| Miscellaneous Rent Income Miscellaneous Nonoperating Physical Property Dividend Income | 303,860 22 6,565 14 91,974 00 | 19,272 27 d 557 81 d 1,226 33 | 7.83 1.32 | | Contingent Charges Sinking Fund — Series RR Bonds | \$ 679,102 00 | _ | |
| Income from Funded Securities | 421,447 88 | d 28,212 55 | 6.27 | | Interest on Funded Debt — Contingent Interest Sinking Fund — Series A Bonds | 1,251,402 20 | d \$ 71,007 66 | |
| curities and Accounts Income from Sinking and | 159,896 64 | 101,769 74 | 175.08 | | (see note) | 34,143 86 | 34,143 86 | |
| Other Reserve Funds Miscellaneous Income | 68,030 86 48,558 55 | 38,130 56 1,186 70 | 127.53 2.51 | , | Total Contingent Charges . | \$1,964,648 06 | d\$ 36,863 80 | |
| Total Other Income | \$1,371,145 12 | \$ 83,016 75 | 6.44 | | Net Income after Fixed Charges and Other De- | | | |
| Total Income | \$5,868,119 75 | \$1,019,314 04 | 21.02 | | ductions | _ | \$1,248,583 68 | |

d Indicates decrease.

Note. — Annual requirement of Sinking Fund for redemption of Series A Bonds amounts to \$482,870. Earnings were sufficient to allocate only \$34,143,86 for this purpose.



| | Year Ended Dec. 31, 1946 | Increase or Decrease |
|--|--|---|
| MAINTENANCE OF WAY AND STRUCTURES Superintendence Roadway Maintenance Tunnels and Subways Bridges, Trestles and Culverts Ties Rails Other Track Material Ballast Track Laying and Surfacing Fences, Snowsheds and Signs Station and Office Buildings Roadway Buildings Water Stations Fuel Stations Shops and Enginehouses Grain Elevators Storage Warehouses Wharves and Docks Coal and Ore Wharves | \$ 775,078 65 1,022,383 22 29,172 27 307,114 63 379,608 46 275,048 66 443,983 84 68,877 92 3,408,994 84 51,588 85 634,971 76 58,847 30 69,483 00 49,170 38 506,045 98 10,704 03 971 76 54,860 66 45 63 | Decrease \$ 81,729 58 139,771 55 d 11,323 34 176,670 60 57,484 76 d 147,040 36 d 242,221 66 d 8,663 58 d 138,490 77 3,114 50 73,148 09 d 4,480 01 13,102 53 d 6,635 15 d 60,267 59 d 22,367 17 316 83 d 24,590 59 d 4,322 60 |
| Telegraph and Telephone Lines Signals and Interlockers Power Plants Power-Transmission Systems Miscellaneous Structures Road Property — Depreciation Retirements — Road Roadway Machines | 69,460 13 902,527 94 9,859 75 62,705 45 1,471 80 1,640,172 96 149,969 60 123,542 06 | 10,186 08 36,970 04 5,403 64 6,385 37 895 47 12,990 00 d 746,843 84 d 21,286 79 |
| Dismantling Retired Road Property Road — Amortization of Defense Projects Small Tools and Supplies Removing Snow, Ice and Sand Public Improvements — Maintenance Injuries to Persons Insurance Stationery and Printing Other Expenses Maintaining Joint Tracks, Yards and | 52,466 25 174,431 41 844,122 89 202,923 53 82,494 39 19,535 30 9,701 25 24,249 93 | d 121,427 01 d 84,981 65 d 12,379 62 d 625,417 21 61,466 08 17,761 06 1,875 67 713 33 d 45,676 69 |
| Other Facilities — Dr. Maintaining Joint Tracks, Yards and Other Facilities — Cr. Total Maintenance of Way and Structures Ratio to Total Operating Revenues. | \$12,990,322 19 (16.83%) | d 187,482 94 d 142,527 82 d \$1,673,385 57 d (1.00%) |

d Indicates decrease.

| | Year Ended Dec. 31, 1946 | Increase or Decrease |
|--|-----------------------------|---|
| MAINTENANCE OF EQUIPMENT | | |
| Superintendence | \$ 582,246 60 | \$ 72,277 53 |
| Shop Machinery | 319,116 52 | d 14,102 49 |
| Power-Plant Machinery | 49,447 26 | 2,631 51 |
| Shop and Power-Plant Machinery — | 200 1804 2000 194 200 | 100000000000000000000000000000000000000 |
| Depreciation | 97,164 00 | 3,630 00 |
| Depreciation Dismantling Retired Shop and Power- | 5 600 E 660 | |
| Plant Machinery | 440 78 | 330 89 |
| Steam Locomotives — Repairs | 4,203,152 64 | d 456,200 31 |
| Other Locomotives — Repairs | 1,356,404 67 | 414,641 17 |
| Freight-Train Cars — Repairs | 2,048,268 55 | d 92,863 84 |
| Passenger-Train Cars — Repairs | 1,883,025 38 | 36,970 81 |
| Work Equipment — Repairs | 274,141 82 | d 117,833 58 |
| Miscellaneous Equipment — Repairs . | 27,367 15 | 7,187 57 |
| Dismantling Retired Equipment | 29,357 28 | 17,637 19 |
| Retirements — Equipment | 1,400 00 | 97 17 |
| Equipment — Depreciation | 1,514,646 25 | 38,255 85 |
| Equipment — Amortization of Defense | 1,314,040 23 | 36,233 63 |
| Projects | 25,561 88 | d 7,868,325 13 |
| Injuries to Persons | 75,143 41 | 2,291 47 |
| Insurance | 37,716 83 | 10,191 99 |
| Stationery and Printing | 9.834 95 | d 244 39 |
| Other Expenses | 16,900 08 | d 25,640 54 |
| Other Expenses | 10,900 08 | a 25,040 54 |
| nals — Dr | 156,619 19 | 3,435 04 |
| Maintaining Joint Equipment at Termi- | 150,019 19 | 3,433 04 |
| nals — Cr | 7.947 40 | 6 73 |
| nais Ci | 7,947 40 | 0 73 |
| Total Maintenance of Equipment . | \$12,697,207 84 | d \$7,965,638 82 |
| Ratio to Total Operating Revenues . | (16.46%) | d (8.67%) |
| (Pale | | |
| TRAFFIC | | |
| Superintendence | \$ 434,977 10 | \$ 49,013 89 |
| Outside Agencies | 371,700 89 | 55,972 88 |
| Advertising | 239,680 82 | d 26,953 93 |
| Traffic Associations | 47,753 40 | 6,901 86 |
| Industrial and Immigration Bureaus . | 17,050 31 | 2,056 85 |
| Insurance | 20 88 | d 2 40 |
| Stationery and Printing | 40,613 58 | 10,517 39 |
| T-1-1 T # - | 0.1.171.704.70 | 0.0000 |
| Total Traffic | \$ 1,151,796 98 | \$ 97,506 54 |
| Ratio to Total Operating Revenues . | (1.49%) | (.21%) |

d Indicates decrease.

| | Year ended Dec. 31, 1946 | Increase or Decrease |
|--|-----------------------------|---------------------------|
| Transportation | | |
| Superintendence | \$ 852,130 77 | \$ 100,932 82 |
| Dispatching Trains | 316,058 93 | 42,415 96 |
| Station Employees | 5,907,794 37 | 1,056,469 12 |
| Weighing, Inspection and Demurrage | | |
| Bureaus | 21,671 24 | 3,684 76 |
| Station Supplies and Expenses | 488,645 65 | 54,807 63 |
| Yardmasters and Yard Clerks | 952,276 24 | 113,158 66 |
| Yard Conductors and Brakemen | 2,018,044 47 | 266,103 32 |
| Yard Switch and Signal Tenders | 303,099 20 | 17,514 95 |
| Yard Enginemen | 647,776 87 | 41,822 59 |
| Yard Motormen | 550,099 58 | 80,086 86 |
| Yard Switching Fuel | 578,224 93 | d 12,258 88 |
| Water for Yard Locomotives | 17,359 26 | d 1,485 36 |
| Lubricants for Yard Locomotives | 22,963 38 | 2,089 70 |
| Other Supplies for Yard Locomotives . | 14,053 35 | d 2,080 77 |
| Enginehouse Expenses — Yard | 298,231 15 | 40,716 21 |
| Yard Supplies and Expenses | 74,044 32 | d 9,406 96 |
| Operating Joint Yards and Terminals | | |
| — Dr | 2,195,649 89 | 202,161 40 |
| Operating Joint Yards and Terminals | | |
| — Cr | 372,593 20 | 44,598 77 |
| Train Enginemen. | 2,364,020 07 | d 40,126 23 |
| Train Motormen | 833,574 87 | 385,529 87 |
| Train Fuel | 4,025,643 52 | d 689,236 15 |
| Train Power Purchased | 72,446 36 | d 20,437 42 |
| Water for Train Locomotives | 138,509 80 | d 17,344 21 |
| Lubricants for Train Locomotives | 177,119 58 | d 20,760 30 |
| Other Supplies for Train Locomotives . | 81,920 14 | d 10,445 70 |
| Enginehouse Expenses — Train | 1,571,246 31 | 160,080 91 |
| Trainmen | 4,404,692 51 | 564,115 73 |
| Train Supplies and Expenses | 1,950,203 03 | 249,342 42 |
| Signal and Interlocker Operation | 577,200 80 | 33,238 58 |
| Crossing Protection | 1,316,195 52 | 253,934 62 |
| Drawbridge Operation | 40.105 37 | 8,852 48 |
| Telegraph and Telephone Operation . | 51,519 58 | 699 79 |
| Stationery and Printing | 154,899 26 | 11,404 25 |
| | 52,663 98 | d 15,423 31 |
| Other Expenses Operating Joint Tracks and Facilities | 32,003 98 | 10,420 01 |
| — De | 35,590 12 | 4,917 35 |
| — Dr. Operating Joint Tracks and Facilities | 33,390 12 | 1,717 00 |
| - Cr | 64,897 40 | 3,691 43 |
| | | 910 43 |
| Insurance | 11,388 98 64,239 93 | 6,776 66 |
| Clearing Wrecks | | 0.0 880 0.0 |
| Damage to Property | 27,527 56 | |
| Damage to Live Stock on Right of Way | 4,603 46 | d 36 23 183,358 40 |
| Loss and Damage — Freight | 812,567 71 | 1,019 76 |
| Loss and Damage — Baggage | 8,706 08 | |
| Injuries to Persons | 389,405 62 | 101 37 |
| Total Tours tout 1 | 022 004 622 44 | 22 075 142 00 |
| Total Transportation | \$33,986,623 16 | \$2,975,143 90 (6.33%) |
| | (44.04%) | 10.33% |

Operating Expenses (Concluded)

| | Year ended Dec. 31, 1946 | Increase or Decrease |
|--|------------------------------------|-------------------------------|
| MISCELLANEOUS OPERATIONS Dining and Buffet Service. Grain Elevators Other Miscellaneous Operations | \$ 299,814 50 18,942 08 8 28 | \$ 16,327 45 d 21,325 40 |
| Total Miscellaneous Operations Ratio to Total Operating Revenues . | \$ 318,764 86 (.42%) | d \$ 4,997 95 (.02%) |
| General | | |
| Salaries and Expenses of General Officers | \$ 208,935 41 | \$ 12,932 81 |
| Salaries and Expenses of Clerks and Attendants | 2 042 092 42 | 204 420 27 |
| General Office Supplies and Expenses . | 2,042,982 12 146,805 81 | 284,430 27 d 2.960 49 |
| Law Expenses | 168,081 76 | d 2,960 49 10,876 27 |
| Insurance | 777 89 | d 46 91 |
| Pensions | 175,618 51 | 3,868 54 |
| Stationery and Printing. | 62,161 00 | 2,301 28 |
| Valuation Expenses | 34,810 84 | 5,898 15 |
| Other Expenses | 120,699 00 | 4,162 77 |
| General Joint Facilities — Dr | 20,735 99 | 1,467 92 |
| Total General | \$ 2,981,608 33 | \$ 322,930 61 |
| Ratio to Total Operating Revenues . | (3.86%) | (.63%) |
| Total Operating Expenses | \$64,126,323 36 (83.10%) | d \$6,248,441 29 d (2.48%) |

d Indicates decrease.



Caboose talking with head end by radio phone on a Boston and Maine freight train



(Above) Cleaning ballast on the Boston and Maine. The ballast is picked up, the dirt sifted out and the ballast replaced in the road bed. (Below). Another view showing the dirt from ballast being expelled to one side



| Capital Stock | Amount Outstanding | Dividend Rate | Cumulative Dividends Un Since †Jan. 1, 1932–*Oct. 1 | | Amount in Hands of Public | Owned, Deposited with Trustee, or Held in Treasury or Insurance Fund ** |
|--|---|---|--|---|---|--|
| Prior Preference Prior Preference Negotiable Receipts First Preferred Class A " " " C " " D " " E Preferred Common | \$ 23,136,000 00 2,500 00 18,860,000 00 7,648,800 00 7,917,100 00 4,327,000 00 65,000 00 3,149,800 00 39,505,100 00 | 7 % 5 % 8 % 7 % 10 % 4½% 6 % | *\$106 75 '' '' 8,444, *\$152 50 '' '' 6,593, | | \$ 22,938,900 00 2,500 00 18,834,100 00 7,648,800 00 7,910,300 00 4,323,900 00 65,000 00 3,149,800 00 39,472,800 00 | \$ 197,100 00 25,900 00 6,800 00 3,100 00 32,300 00 |
| | \$104,611,300 00 | | | | \$104,346,100 00 | \$ 265,200 00 |
| Long-Term Debt | | mount standing | Date of Maturity | Rate | | |
| Bonds secured by Mortgage dated December supplemented as of July 1, 1940 Series FF | \$ 1,2 59,2 | 52,000 00 13,000 00 25,000 00 237,000 00 022,600 00 002,000 00 040,000 00 | January 1, 1947 April 1, 1947 July 1, 1950 May 1, 1955 July 1, 1960 April 1, 1961 September 1, 1967 July 1, 1970 | 5 % 5 % 3 % 5 % 4 % 434 % 5 41/2% | \$ 52,000 00 13,000 00 10,000 00 1,237,000 00 58,041,800 00 897,000 00 2,424,000 00 27,193,000 00 \$ 89,867,800 00 | a \$ 15,000 00 1,160,800 00 a 5,000 00 a 641,000 00 2,847,000 00 \$4,668,800 00 |
| Equipment Trust No. 6 Trust Certificates Lease and Purchase Agreements — Equipm | | 522,000 00 121,520 19 | June–Dec. 1, 1947–49 Various | 4 % Various | 522,000 00 11,121,520 19 | |

\$106,180,120 19

\$101,511,320 19

\$4,668,800 00

Grand Total Long-Term Debt

a Deposited with and held by Trustee in Lieu of Mortgaged Property Sold, to release would require cash payment at par.

| Item | Debit | | | Credit | |
|--|------------------|----|--------|----------|----|
| Balance, December 31, 1945 (Credit) | | | (a) \$ | 268,864 | 45 |
| Adjustment to Par of Boston and Maine Railroad Bonds purchased during 1946 | | | | 548,414 | 94 |
| Collection of old balances previously writ- ten off as uncollectible | | | | 40,000 | 00 |
| Profit on Retired Miscellaneous Property Sold | | | | 10,373 | 57 |
| Balance of Book Value of Barre and Chelsea Railroad Company Note charged off | \$ 315,490 | 00 | | | |
| To charge off balances in book accounts, representing property changes and material and supplies on line of The Connecticut and Passumpsic Rivers Railroad Company north of Wells River, Vt., which accounts are now cancelled by reason of the sale of all of the property and assets of The Connecticut and Passumpsic Rivers Railroad Company to the Boston and Maine Railroad and Canadian Pacific Railway Company Miscellaneous Debits — Net Debit Balance, December 31, 1946 | 1,308,235 634 | | (a) | 756,707 | 36 |
| | \$1,624,360 | 32 | \$1 | ,624,360 | 32 |

(a) Includes Surplus Earned by Lessor Companies before Consolidation.



Interior of the control cab on a B & M Passenger Diesel Locomotive

| ROAD | TITLE ACCOUNT | Gross Expenditur | res | Property Retired | | Net Capit Changes | |
|------|----------------------------------|---------------------|-------|---------------------|----|----------------------|----|
| 1 | Engineering | \$ 164,789 | 92 | \$ 46,922 | 45 | \$ 117.867 | 47 |
| 2 | Land for Transportation Purposes | 107,104 | | 61.587 | | 45,516 | |
| 21/2 | Other Right-of-Way Expenditures | 2.128 | | 210 | | 1,918 | |
| 3 | | 803,264 | | 225,085 | | 578,178 | |
| 75 | Grading | 152,834 | | 413,922 | | 261,087 | |
| 6 | | 181,274 | | 8,950 | | 172,324 | |
| 8 | Ties | | | | | 197,976 | |
| 9 | Rails | 538,472 | | 340,495 | | | |
| 10 | Other Track Material | 350,529 | | 367,308 | | 16,778 | |
| 11 | Ballast | 92,978 | | 9,160 | | 83,817 | |
| 12 | Track Laying and Surfacing | 174,153 | | 326 | | 173,827 | |
| 13 | Fences, Snowsheds and Signs | 26,892 | | 4,773 | | 22,119 | |
| 16 | Station and Office Buildings | 307,523 | 10 | 117,510 | 35 | 190,012 | |
| 17 | Roadway Buildings | 12,657 | 26 | 16,786 | 57 | 4,129 | |
| 18 | Water Stations | 18,792 | 25 | 11,401 | 16 | 7,391 | 09 |
| 19 | Fuel Stations | - | | 21,300 | 46 | 21,300 | 46 |
| 20 | Shops and Enginehouses | 150.684 | 56 | 7,640 | 82 | 158,325 | |
| 26 | Telegraph and Telephone Lines | 8,040 | | 8,550 | | 509 | |
| 27 | Signals and Interlockers | 492,148 | | 118,233 | | 373,915 | |
| 29 | Dower Plants | 11.821 | | 2,257 | | 14,078 | |
| 31 | Power Plants | 20,000 | | 205,482 | | 185,482 | |
| | Power-Transmission Systems | 20,000 | 14 | 559 | | 559 | |
| 35 | Miscellaneous Structures | 70 022 | | | | | |
| 37 | Roadway Machines | 79,823 | | 20,386 | | 59,437 | |
| 38 | Roadway Small Tools | 5,777 | 78 | 971 | 96 | 4,805 | 82 |
| 39 | Public Improvements — Construc- | 180000000 | 27.45 | | | 10000000 | _ |
| | tion | 56,480 | | 69,792 | | 13,311 | |
| 44 | Shop Machinery | 147,174 | 53 | 114,966 | | 32,207 | |
| 45 | Power-Plant Machinery | | | 49,184 | 34 | 49,184 | 34 |
| | Total Road | \$ 3,905,348 | 14 | \$2,223,971 | 74 | \$1,681,376 | 40 |
| | PMENT | | | | | | ~0 |
| 51 | Steam Locomotives | 106,402 | | 1,425,349 | | 1,318,946 | |
| 52 | Other Locomotives | 6,286,958 | | 390,760 | | 5,896,197 | |
| 53 | Freight-Train Cars | 312,675 | 05 | 696,504 | 83 | 383,829 | |
| 54 | Passenger-Train Cars | 807,019 | 32 | 409,455 | 72 | 397,563 | 60 |
| 57 | Work Equipment | 165,582 | 17 | 186,617 | 25 | 21,035 | 08 |
| 58 | Miscellaneous Equipment | 10,432 | 17 | 2,692 | 19 | 7,739 | 98 |
| | Total Equipment | \$ 7,689,069 | 83 | \$3,111,380 | 21 | \$4,577,689 | 62 |
| | RAL EXPENDITURES | | | | | | |
| 71 | Organization Expenses | | 20000 | | 00 | | 00 |
| 72 | General Officers and Clerks | 13,155 | 81 | 2,953 | 00 | 10,202 | 81 |
| 7.3 | Law | 8,925 | 94 | 1,724 | 28 | 7,201 | 66 |
| 74 | Stationery and Printing | 700 | 43 | 220 | 00 | 480 | 43 |
| 75 | Taxes | 4,257 | | 1.026 | 00 | 3,231 | 16 |
| 76 | Interest during Construction | 133,305 | | 49,898 | | 83,407 | |
| 77 | Other Expenditures — General | 2,842 | | 647 | | 2,195 | |
| " | Total General Expenditures | \$ 163,187 | | 8 56,502 | | \$ 106,684 | |
| | | \$11.757.605 | _ | * 85,391,854 | _ | \$6,365,751 | |
| | Totals (See Note) | 911,737,003 | 34 | 50,001,004 | 04 | 90,303,731 | 00 |

| * DISPOSITION OF CR | E | DIT | rs | | | | | | | | | |
|---|-------|--------|-----|------|------|-------|---------|-----|----------|-----|-------------|-----|
| Account No. | | | | | | | | | | | | |
| 701 - Road and Equipment Property - Equipment Con- | ver | rted | | 41.5 | | | | 60 | o 16 | 40 | \$ 67,354 | 16 |
| 702½ — Accrued Depreciation — Road and Equipment . | | | | | | | | | | | 3,380,363 | 44 |
| 708 — Cash — Land, Rail, etc. Sold | 3 : | ଼ | 0 | | | | | | 1 | - 6 | 454,743 | 0.5 |
| 716 — Material and Supplies — Usable Material | Ç : | | 9 | | 1 6 | | | | 1 | | 175,270 | |
| 531 — Operating Expenses | · 1 | | 7.0 | 4 | 9.00 | 17.40 | | 201 | | v. | 396,265 | |
| 621 — Profit and Loss — Miscellaneous Debits — Net . | 200 2 | 01 114 | | | | | × . | * | | | 897,857 | 52 |
| Total Amount condited to Investment in Boad and Equipment | | | | | | | | | | | \$5 301 854 | 54 |

Note, — "Gross Expenditures" includes Journal Entries amount \$2,527,040.71 to conform with Interstate Commerce Commission accounting requirements in connection with the acquisition of the Troy & Bennington Railroad Company — \$311,888,66, and The Connecticut and Passumpsic Rivers Railroad Company, White River Junction, Vermont, to Wells River, Vermont — \$2,215,182.05.

| Capital Stock | Amount Outstanding | Dividend Rate (Paid as rental) | Owned, Deposited with Trustee, or Held in Treasury or Insurance Fund |
|---|---|--------------------------------------|---|
| Stony Brook . Pemigewasset Valley . Northern . Vermont and Massachusetts Vermont Valley . Sullivan County | \$ 300,000 00 541,500 00 3,068,400 00 3,193,000 00 1,000,000 00 a 500,000 00 | 7% 3% 6% 6% — | \$ 26,000 00 414,100 00 361,200 00 45,000 00 1,000,000 00 |
| Total Capital Stock . | \$8,602,900 00 | | \$1,846,300 00 |

a All owned by Vermont Valley Railroad.

| Funded Debt | Bonds Outstanding | Date of Maturity | Rate | Held in Treasury |
|---|---------------------------------|-------------------------------|------|---------------------|
| Sullivan County First Mortgage Vermont Valley First Mortgage | \$ 357,000 00 **1,350,000 00 | April 1, 1944 Oct. 1, 1955 | 6% | * \$357,000 00 |
| Total Funded Debt | \$1,707,000 00 | | | \$357,000 00 |

^{*} These bonds have matured and are held by the Boston and Maine Railroad as an overdue obligation of the Sullivan County Railroad.

** Funds are on deposit with the Trustee to call for redemption on April 1, 1947, \$968,000 principal amount of these bonds.

Miles of Road Operated, December 31, 1946

| S | TI | EAI | М | Ro | AI | os | | | | | Owned | Leased | Total |
|----------------|----|-----|-----|-----|----|----|---|---|---|---|------------|----------|----------|
| Main Lines | ٠. | | | | | | | | | | 830 58 | 187 20 | 1.017 78 |
| Branch Lines . | | | | | | | | | | - | 635 82 | 26 49 | 662 31 |
| Trackage Right | s. | | | | * | | | × | × | * | | 82 22 | 82 22 |
| Total Road | 0 | ber | ate | ed | | | | | | | 1,466 40 | 295 91 | 1,762 31 |
| Second Track . | · | | | | | | | | | | 463 85 | a 114 17 | 578 02 |
| Inird Irack . | | | | | | | | | | | 4 11 | ь 5 44 | 9 55 |
| Other Tracks . | • | ÷ | ٠ | ÷ | | | * | ÷ | | | 913 13 | 117 99 | 1,031 12 |
| Total Track | 0 | pe | rai | ted | | | | | ٠ | | 2,847 49 | 533 51 | 3.381 00 |



| | Year ended Dec. 31, 1946 | Increase or Decrease |
|--|---|--|
| AVERAGE MILES OF ROAD OPERATED | | |
| Freight Service Passenger Service | 1,750.87 1,410.20 | 26.27 .90 |
| Total | 1,763.11 | 26.27 |
| Train Mileage Freight service (with locomotives) Passenger service (with locomotives) Passenger service (without locomotives). Work service | 3,826,603 6,769,381 268,477 178,557 | 282,340 164,018 4,842 168,829 |
| Total train miles | 11,043,018 | 620,029 |
| * LOCOMOTIVE MILEAGE Freight service Passenger service. Train switching Yard switching Work service | 4,162,074 7,087,050 293,160 2,704,812 228,223 | 403,898 269,925 5,874 27,324 164,589 |
| Total locomotive miles | 14,475,319 | 871,610 |
| CAR MILEAGE Freight-Train Car Miles: Loaded Empty Caboose | 145,525,313 56,825,773 3,952,873 | 9,916,454 11,195,628 |
| Total freight train on with | | 293,771 |
| Passenger-Train Car Miles: Passenger coaches Sleeping and parlor cars. Club, lounge, dining and observation cars. Business cars Mail, express, and baggage cars, and combination cars other than passenger | 23,237,806 3,877,083 322,992 8,359 | 1,454,984 462,485 58,987 2,993 |
| Combination passenger cars (mail, express, or baggage with passenger) | 15,980,137 | 394,549 |
| Total passenger-train car miles | 4,453,931 | 177,342 |
| | 47,880,308 | 1,508,396 |
| Total transportation service car miles. | 254,184,267 | 22,914,249 |
| 0 | \$43,767.63 36,371.14 2,550.59 | \$2,188.48 2,957.99 560.70 |
| Operating revenues per train mile Operating expenses per train mile Net railway operating income per train mile. | \$ 7.10 5.90 .41 | \$.17 .32 .10 |
| Total Freight cars per revenue train mile . Loaded Freight cars per revenue train mile Empty Freight cars per revenue train mile. | 52.88 38.03 14.85 | 1.50 .20 1.70 |
| Total Passenger cars per train mile | 6.80 | .05 |

| * Includes 48,403 Electric locomotive Italics indicate decrease. | miles and 4,634,680 | Diesel locomotive miles. |
|---|---------------------|--------------------------|
|---|---------------------|--------------------------|

| | Year Ended Dec. 31, 1946 | Increase or Decrease |
|--|-----------------------------|-------------------------|
| FREIGHT | | |
| Freight Revenue | \$ 53,766,934 | \$ 1,785,373 |
| Tons of revenue freight carried | 23,620,692 1,596,660 | 1,693,982 357,171 |
| Total tons of freight carried | 25,217,352 | 2,051,153 |
| Tons of revenue freight carried one mile | 3,715,327,958 | 511,102,482 |
| Tons of company freight carried one mile | 143,486,640 | 21,697,845 |
| Total tons of freight carried one mile | 3,858,814,598 | 532,800,327 |
| Passenger Passenger Revenue: | | |
| Monthly commutation ticket passengers | \$ 1,026,154.54 | \$ 178,878.21 |
| All other commutation ticket passengers | 1,489,219.98 | 78,232.96 |
| Single lare ticket passengers (not including interline) | 8,669,002.71 | 1,081,194.72 |
| Interline ticket passengers. | 5,570,605.60 | 1,681,905.01 |
| Total passenger revenue | \$16,754,982.83 | \$2,505,988.56 |
| Number of Passengers Carried: | | |
| Monthly commutation ticket passengers | 4,556,631 | 688,770 |
| All other commutation ticket passengers | 8,578,311 | 442,939 |
| Single lare ticket passengers (not including interline) | 13,568,406 | 2,087,506 |
| Interline ticket passengers | 2,710,676 | 1,203,692 |
| Total number of passengers carried | 29,414,024 | 2,159,489 |
| Number of Passengers carried one mile: | | |
| Monthly commutation ticket passengers | 109,877,810 | 25,374,682 |
| All other commutation ticket passengers | 84,265,419 | 10,617,186 |
| Single tare ticket passengers (not including interline) | 418,038,975 | 69,106,257 |
| Interline ticket passengers. | 251,556,678 | 94,369,475 |
| Total number of passengers carried one mile | 863,738,882 | 127,483,864 |
| Number of passengers to and from Boston, including monthly ticket passengers | 25,365,867 | 843,050 |
| Averages | | |
| Freight: | | |
| Miles hauled — revenue freight | 157.29 | 9.67 |
| I ons of revenue freight per train mile | 970.92 | 57.67 |
| I ons of revenue freight per loaded car mile | 25.53 | 1.66 |
| Revenue per ton of freight | \$ 2.27626 | \$.08179 |
| Revenue per ton per mile (cents) | 1.447 | .133 |
| Revenue per revenue train mile | \$ 14.051 | \$.531 |
| Freight revenue per loaded car mile (cents) Passenger: | 36.947 | 1.209 |
| Average distance carried per passenger (miles) | 29.36 | 2.03 |
| Number of passengers per train mile | 122.73 | 14.81 |
| Number of passengers per car mile | 27.36 | 2.92 |
| Revenue per passenger (cents) | 56.96 | 4.04 |
| Revenue per passenger (cents) Revenue per passenger mile, monthly commutation | 20,50 | 79 |
| Revenue per passenger mile, other commutation | 0.934 | .069 |
| ticket passengers (cents) Revenue per passenger mile, single fare not including | 1.767 | .148 |
| interine (cents) | 2.074 | .073 |
| Revenue per passenger mile, interline passengers (cents) | 2.214 | .118 |
| Revenue per passenger mile, all passengers . (cents) | 1.940 | .003 |
| Passenger Revenue per passenger car mile (cents) | 53.074 | 5,758 |
| Total passenger service train revenue per train mile . | \$ 2.833 | \$.400 |