

magnitude to demand attention, and the time is not far distant when it will materially affect the tariff rates at which the traffic can be worked, as is already found to be the case in the New England States.

Any contrivance in discovery, therefore, which tends to reduce the consumption of Fuel in the creation of motive power, is of peculiar importance to the public as well as to Railway proprietors.

The following Table shewing the cost of Fuel in relation to the working expenses and earnings of twelve Roads in the United States and of two in Canada for the year 1855, has been calculated with a view to exhibiting the importance of fuel in Railway Economy.

| NAME OF ROAD. | TRAIN MILEAGE IN 1855. | GROSS EARNINGS PER TRAIN MILE IN \$. | COST OF WORKING PER CENT OF GROSS EARNINGS. | COST OF FUEL PER CENT OF GROSS EARNINGS. | COST OF FUEL PER CENT OF WORKING EXPENSES. |
|---------------------------------|------------------------|--------------------------------------|---|--|--|
| Boston and Lowell | 295,517 | \$ 1,660 | 64 | 15.8 | 24.7 |
| Boston and Maine | 588,016 | 1,650 | 49 | 12.0 | 24.5 |
| Boston and Providence | 316,238 | 1,766 | 62 | 19.0 | 32.0 |
| Boston and Worcester | 541,528 | 1,861 | 54 | 15.0 | 27.4 |
| Boston and Fitchburg | 451,944 | 1,572 | 59 | 11.7 | 20.0 |
| Old Colony and Fall River | 408,107 | 1,501 | 53 | 14.0 | 24.3 |
| Providence and Worcester | 196,188 | 1,588 | 53 | 15.3 | 25.3 |
| Western | 1,021,163 | 1,830 | 60 | 13.0 | 21.4 |
| Hudson River | 929,748 | 2,011 | 60 | 12.6 | 20.8 |
| New York Central | 3,554,574 | 1,782 | 49 | 9.0 | 18.8 |
| New York and Erie | 3,181,878 | 1,625 | 45 | 8.0 | 17.5 |
| Northern (Ogdensburg) | 320,316 | 1,358 | 67 | 4.2 | 6.2 |
| Ontario, Simcoe and Huron | 251,417 | 1,358 | 67 | 0.1 | 13.0 |
| Great Western* | 503,781 | 1,902 | 51 | 8.0 | 13.8 |

* This is only for the first six months of the year, the last return not being published.

These roads embrace a length of 2,180 miles, and the train mileage for the period covered by the returns amounts to 12,750,000 miles,