

§ 6. From hence the Line will most favorably follow the right or northerly bank of the River, varying from level to the maximum rise of seven feet per mile, until it approaches Studholm's Mill Stream at 42 miles 32 chains from Saint John. A little below this Stream it will again cross the main River, and thence keeping as close as practicable to the left or southerly shore, it will recross the River twice within the distance of half a mile, a little below the situation of Fox Hill, and will continue thence nearly straight, gradually leaving the River widely to the left and rising at nearly the uniform rate of seven feet per mile, to the Race Course, on the property of A. C. Evanson, Esquire, Sussex Vale, at the distance of 45 miles 61 chains from Saint John.

On reaching this situation, the traveller is scarcely conscious that he has yet not attained so high an elevation above the level of the Sea as some parts of the City of Saint John.

The following is the relative height of this point in Sussex Vale :

Above the highest Freshet level of Kennebecasis Bay,	51 Feet
" High water, Spring tides, at Saint John,	56 "
" " " at Bend of Petitcodiac,	53 "
" " " at Shediac,	76 "

§ 7. From hence, passing a slight rise and again descending by a fall of 12 feet per mile into the Valley of Salmon River, (the principal branch of the Kennebecasis,) the course of the Line will be nearly direct, with an uniform rise of seven feet per mile, to the mouth of Stone's Brook, distant 52 miles 28 chains from Saint John.

§ 8. From hence the choice of two routes is offered, of each of which a careful survey and section has been made. The first is by the Valley of Stone's Brook to the immediate source of the Annagance. The second continues by the Valley of the Salmon River to the "Portage," and thence, after twice intersecting the Post Road, descends and meets the former route at a lower point in the Valley of the Annagance.

The distance by each route will be nearly the same; but by the first the summit is crossed by a maximum rise of 22 feet per mile, and the same rate of fall for a short distance into the Valley of the Annagance.

By the second an equally favourable rise can be obtained only by a heavier proportion of cutting and embankment, and it will not be easy to obtain a more favourable descent into the Valley of the Annagance than at the rate of 40 feet per mile.

As the intersection of this summit will determine the maximum gradient eastward, between the Bend of Petitcodiac and Saint John, the route by Stone's Brook is therefore obviously to be preferred.