the Grand River e Grand Falls. occupied by rocks que to the Quebee eventy miles. As on rocks of this which comprises land suitable for s of access can be

Miramiehi Rivers

part very rocky, striking features. d; so that except the Main South-Rivers is worthe country of the valuable timber, especially in the ramiehi and its the bare rock. ork, explorations of the Tobique limited, further an be obtained. was paid to the races of several ditions of their ucement for the irther reference nomic Minerals.

nis age is very uperficial area. x being placed dron Lakes on orthern side of bout 210 miles, id a direct line ng for sea area iles belonging

to this System will not fall far short of 10,000. It includes the greater part of the counties of Westmorland, Queens, Sunbury and Gloucester, a large portion of York and Northumberland, and the entire county of Kent in so far as known. Throughout the greater part of the country under discussion, the strata lie in a nearly horizontal attitude, rarely reaching an angle of 10°, but generally forming low undulations with angles of from 1°-4°. The surface of this large area is generally low and level or broken by ridges of moderate elevation. There is, however, a slight dip of the beds towards the waters of the Gulf of St. Lawrence, and from the general ontline and structure of the formation, it would appear to have, at one time, formed a long sheltered and shallow bay, a western prolongation of the great Carboniferous basin which extended as far eastward as the Island of Cape Breton, and stretched from Gaspé on the north to the ridge of the Cobequids, in Nova Scotia, on the south. In the counties of Sunbury and Queens, the thickness of this formation has been determined by boring, but no efforts in this direction have yet been atterated in its eastern portion, and it is quite probable that it will be and to increase in thick Probable ness as we approach nearer the productive measures of Nova Scotia. greater the ness of the Some color is lent to this supposition also from the non-occurrence of the Gulfshore. those ridges of older rocks (Lower Carboniferous and Devonian), which are found in the western portion about the head of the Grand Lake and on the Canaan River. The rocks resemble those already described in the Report of 1872-3 in the Grand Lake coalfield. Grey sandstone, shales and eonglomerates predominate, but in the vicinity of the Gulf purple beds are seen like those exposed about the shore of Grand Lake, in Queens county. The boundary of the formation has been traced on its northern side from the Main South-west Miramichi near Boiestown, to the shore of the Bay of Chaleur, below Bathurst. The entirely unsettled state of a great part of the country, with its generally low and often swampy character, renders detailed observations very difficult. The Intercolonial railroad, however, affords a very fair section from Bathurst to Moncton, but the ordinary earriage roads disclose very rarely any rock exposures.

On the Intercolonial going south from Bathurst, exposures, though Bathurst to not very plentiful, are yet quite sufficient to determine the char. Newcastle. acter of the formations. Leaving the Nipisiguit River where the red beds of the upper part of the Lower Carboniferous are seen resting on the granite we find, at the crossing of the Red Pine Brook, layers of reddish-purple sandstone and shale which probably are transition beds between the Lower Carboniferous and the Millstone Grit. Purple beds thence extend at intervals for several miles southward till we pass Red Pine station. These are presumably basal beds of the Millstone Grit