

between N 20° E and N 25° E,* becoming in the northern portion more nearly north and south, but these courses would seem to have had but little influence in determining that of the streams and rivers, which not unfrequently intersect the hill ranges obliquely or even at right angles. In such cases it is usual to find the passage accompanied by more or less considerable rapids or falls, as illustrated in the Grand Falls of the St. John river (74 feet), the Aroostook Falls and the Narrows of the Tobique. Lakes are comparatively few and of small extent.

Elevations.

The following table of elevations above sea level, based on barometric observations, made chiefly by Mr. J. W. Bailey, but including also a few as determined by Mr. Chalmers and the Boundary Commission, is intended as supplementary to the hill sketching as represented upon the map:—

	FEET.
Moose Mountain.....	1,030
Hill on Shiktehawk, north of Glassville Centre	1,255
Ridge north of West Glassville	785
Ridge on Shiktehawk, south of Johnville Road.....	795
Hill, $\frac{1}{2}$ of a mile south of Gordonville Post-office.....	995
Glassville Centre	790
Johnville Church	640
Height of land between Pokiok Bridge on Tobique River and Little River.....	650
Hill on Stickney Brook, 2 miles east of St. John River..	900
Nashwaak Mountain, on South Branch of Miramichi....	855
Height of land between Foreston and McEwen's on S.W. Miramichi	900
Between Foreston and Smith's Corner	875
Hill at Argyle Corner.....	1,135
Ridge opposite Andover.....	590
Hill, $1\frac{3}{4}$ miles below Andover, $1\frac{1}{4}$ miles back from St. John River.....	800
Height of land 3 miles back from Tobique River on Red Rapid settlement road.....	1,190
Mars Hill.....	1,688

The character of the soils and the agricultural capabilities of the region vary with the nature of the rock formations which occupy its several portions. Some remarks upon these subjects will be found in connection with the descriptions of the latter given below, but as they have been made the subject of special examination by Mr. R. Chalmers, it has not been thought necessary to give them extended consideration here.

* These, and all other courses given in this report, are with reference to the true meridian. The variation is about 20° W.