

Red Lake, it is found that nearly half the area of the lake is underlain by granite, so that this lake is not properly described as a basin in the Huronian rocks, though the greater part of its northern arms and bays are entirely within that area.

It will be noticed on reference to the map that, although the Hur- Trout Lake. onian areas are evidently well sprinkled with lakes, still the largest basin of all, Trout Lake, is altogether beyond them and is most probably not a rock basin at all, the southern side being a dam of morainic material. The suggestion that this is the case arises from the fact that not only are there but one or two low rock-exposures along the northern foot of this ridge, but, that the lake lying only three or four miles to the south of Trout Lake, over this ridge, is estimated to be about one hundred and fifty feet below, and is fed by two small streams having their origin in the hills between, and carrying relatively more water than the small area they are supposed to drain, would naturally produce.

Relative heights of lakes.—In order to obtain a relative scale of heights for the lakes and hills in the district, an estimate of all the various falls in the rivers and on portages was carried from the railway through to Berens River by both routes followed. The aneroid barometer was used on long portages and in measuring the height of hills.

Heights of
lakes in South-
ern basin.

The estimated heights above sea-level of the principal lakes in this area, obtained in the above manner, are as follows:—

| | Feet. |
|--|-------|
| Lac Seul..... | 1140 |
| English River at Mattawa..... | 1105 |
| Shallow Lake..... | 1105 |
| Little Shallow Lake..... | 1106 |
| Sand Bar Lake, English River..... | 1035 |
| Wilcox Lake, English River..... | 1030 |
| Long-legged Lake (Lower)..... | 1173 |
| Long-legged Lake (Upper)..... | 1175 |
| Gull Rock Lake..... | 1146 |
| Red Lake..... | 1148 |
| Little Red Lake, or Little Vermilion Lake..... | 1173 |
| Lake at height of land north of Red Lake..... | 1250 |
| Bug Lake, south of Red Lake..... | 1266 |
| Upper Medicine Stone Lake..... | 1210 |
| Lower Medicine Stone Lake..... | 1200 |
| Trout Lake..... | 1295 |
| Snake Lake..... | 1270 |
| Little Bear Lake..... | 1310 |
| Woman Lake..... | 1315 |