

rapids and difficult to navigate with canoes. One mile above the railway line there is a rapid passed by a 13 chain portage, on the west bank. Up to this portage the banks are low and well wooded, except in one place where there are steep clay banks 10 to 15 feet high. The clay is tough and of a whitish colour. The river averages about 8 chains in width up to the railway cache, and generally has low sloping banks of good clay soil. From the railway line to the mouth of Sunday brook six streams enter the river, each from 15 to 20 feet wide. One from the south, two miles below Sunday brook, is considerably larger, and forms part of a canoe route between the Migiskan and Garden Island lake. Besides these there are numerous rivulets entering from both sides. In ascending the Migiskan, two miles above Sunday brook, there is a rapid which is passed by a 15 chain portage on the north side, but canoes can be poled up and run down with light loads. Two and a quarter miles farther up there is a slight rapid, up which the canoes were pulled without making a portage. Two and a half miles above this there is a rather bad rapid, which has a portage 14 chains long on the north side, but it can be run with light canoes. One mile above this rapid Crooked creek enters from the north. Below Crooked creek the forest is all green and of the usual kind, but up to the railway cache, one mile and a half, the forest has been recently burnt. Six observations for latitude were taken at the cache opposite the mouth of the Assup river, the average being $48^{\circ} 12' 35''$. At this point the Migiskan is 500 feet wide, and it keeps this width for most of the distance up to the portage into Millie lake. It is deep and has considerable current, with four or five places where there is swift water or slight rapids, but none of these require a portage. A rather bad rapid is half a mile below the mouth of the Atik river, and the worst one a mile and a half below Trout brook. The portage into Millie lake is over a mile and a half long, the river in this distance being a rapid with a fall of about 60 feet. The soil on the portage is sandy, and was covered with a small second growth of Banksian pine, but it has recently been burnt, and is now practically bare.

Sunday Brook.

Sunday brook enters the Migiskan river from the north, about eight and a half miles above the railway crossing. It is a crooked