

FIGURE 3. Portion of peristome of Mnium cuspidatum. One outer tooth on the left, the rest the inner membrane. From an old classic: Schimper's Recherches.

it spreads by leafy runners, making extensive sods. The leaves appear to be in two rows, one on each side of the stem. A good hand lens will show a distinct midrib, and fine teeth along the upper (distal) half of the

margin of the leaf.

On occasion erect shoots are sent up, half an inch to an inch tall, bearing male and female germ cells clustered organs among crowded leaves. This occurs in June in Iowa. From such a tuft grows up a slender stalk an inch tall, and on this hangs a cylindrical or barrelshaped "capsule." (If the capsule is pear-shaped it is not a Mnium). In May, that is, after eleven months, a round lid falls from the capsule, disclosing two sets of guards such as no human mind could invent! First there is a circle of sixteen yellowish wedge-shaped teeth with cross bars on the inner side of each tooth. Inside of these there is a rich-brown-(the color of colored membrane strong coffee without cream). This membrane is variously but characteristically perforated, and the outer (upper) half of it is divided into sixteen perforated lobes alternating in position with the sixteen outer teeth. Between the lobes one to three

fine nodulose threads arise. This whole apparatus around the mouth of the capsule is the "double peristome." Every kind of moss has its own peculiar peristome — or none at all!

O yes, the serious business of the capsule is to produce spores, microscopic cells, each of which can start

a new colony of mosses.

As yet we know very little about what mosses live in Saskatchewan, or where they grow. We have about thirty species now. They will be found mostly or only where trees grow, or in marshy places. We need a collector in each voting district, and many expeditions into the far north. Who will do it?

Grinnell College, Grinnell, Iowa, and State University of Iowa.

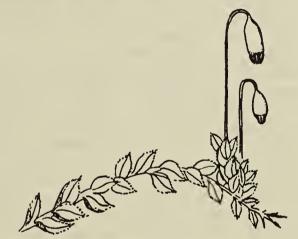


FIGURE 2. Mnium Cuspidatum. From "Mosses of the Okoboji Region." University of Iowa Publ.

13th ANNUAL SASK. CHRISTMAS BIRD COUNT

The National Audubon Society's 55th annual winter bird count will be made during the week after Christmas. The results will then be published in Audubon Field Notes. This is the thirteenth time that the Christmas Count (Dec. 20 to Jan. 3) has been made in Saskatchewan. We hope that even more Society members than usual will participate this year. It will be a great help if observers in one locality can arrange to make their counts on the same day and submit only one report.

For some years now, Dr. Stuart Houston, of Yorkton, has prepared and tabulated the results of the count. This has meant many hours of concentration and hard work. Please assist him by sending in reports not later than the first week

in January.