

ditches along the railway on the Experimental Farm ; also along the Parry Sound Railway west of Hintonburg ; on the sides of the discharge of Leamy's Lake, near Hull, Que. ; in a C.A. Ry. cutting at Moose Creek. Sept. 6th, 1889.

20. *D. heteromalla*, Schimp.

Common in sandy woods or on the roots of turned-up trees and by roadside banks. Fruiting in summer. Woods at Ironsides and Chelsea, Que. ; also at Casselman and Carleton Place ; in woods at West End Park, Ottawa ; in McKay's Woods. Sept. 12th, 1889.

VIII. DICRANUM, Hedw.

21. *D. montanum*, Hedw.

On decaying logs, and stumps and bases of standing trees in woods. Does not fruit at Ottawa. On the bases of trees at Leamy's Lake, Hull, Que. ; on stumps on "Pine Hill," Rockcliffe Park, April 14th, 1896.

22. *D. fulvum*, Hook.

On boulders in woods. Not rare in McKay's woods, but seldom fruiting ; on boulders "Pine Hill," Rockcliffe Park ; on rocks, Aylmer Road west of Hull, Que. October 10th, 1891.

23. *D. viride*, Schimp.

On the bases of growing trees ; always barren. Quite common in McKay's Bush and Beechwood Cemetery ; in woods at Buckingham, Que., May 14th, 1896.

24. *D. flagellare*, Hedw.

On decaying logs in damp or shady woods. Fruiting in spring. Meeche's Lake and Chelsea, Que. ; on "Pine Hill," Rockcliffe Park. April 28th, 1896.

25. *D. scoparium*, Hedw.

Very common on earth in all woods around Ottawa. Rockcliffe Park, April 22nd, 1897.

26. *D. scopariiforme*, Kindb.

Intermediate between *D. scoparium*, Hedw. and *D. fuscescens*, Turn. Dioecious. Leaves greenish-yellow, flexuous, lanceolate, subulate with a short and flat subula ; margin nearly flat or slightly incurved, densely and sharply serrate to one-third ; cell-walls rarely interrupted by pores ; upper cells oblong-oval, lower not much narrower, inner basal light brown ; costa thick, percurrent, with two serrate ridges at the back in the upper part. Capsule curved, not striate ; pedicel red, and short.