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Twenty-Five More Mosses and Liverworts From Iowa

HENRY S. CONARD

On previous occasions I have reported the distribution of 135 Iowa mosses¹ and 30 liverworts² to each of ten herbaria. I am now distributing ten sets of mosses and liverworts to the same herbaria to which the former sets were sent.

For number 6 (part), 7, 9, 14, 22, 24, and 25, I am indebted to Professor W. A. Anderson, Curator of the Herbarium, State University of Iowa.

A list of mosses and liverworts of Iowa, with the counties in which they have been collected, complete to date of going to press, was presented in THE BRYOLOGIST, 48: 70-82, 1945. A few species were added in PROC. IOWA ACAD. SCI. for 1946, still in press. Other species and stations are being found from time to time, to be reported later. Two species and one variety are here reported for the first time. Two species are included which have been distributed in different form previously.

The Species in the Distribution

1. *Calypogeia trichomanis*. Iowa County. The only station where the species has been seen in quantity.
2. *Cephaloziella hampeana*. Apparently widespread in the eastern half of the State. Rarely collected. Part named by Dr. Lois Clark.
3. *Lophozia mildæana*. Poweshiek County. The only known station in Iowa. Identity approved by Ammons and by Clark.
4. *Porella pinnata*. Des Moines County. The only known station.
5. *Tricholea tomentella*. Iowa County. The only known station.
6. *Atrichum undulatum selwynii*. Frequent, and widely distributed. I have placed here those forms whose lamellae and leaf cells are intermediate in size between those of *A. angustatum* and *A. undulatum*, though they do not match Grout's *Musc. Perf.* 129.
7. *Brothera leana*. Johnson County. One of the two known stations; in this one the species is now probably extinct. The former report for Boone County seems to be an error.
8. *Bruchia sullivantii*. Poweshiek County. In a horticultural garden, March to June 1943. Not seen there before or since.
9. *Dicranella rufescens*. Johnson and Muscatine Counties. The only known stations. Not seen since 1903.
10. *Drepanocladus intermedius*. Emmet County, in a fen, partly shaded by tall grasses.
11. *Drepanocladus revolvens*. Emmet County, adjacent to number 10, but on margins of short-grass sods and cold seepage channels devoid of vegetation, exposed to sunshine. The only known station.

1. Conard, H. S. One hundred Iowa mosses. Proc. Iowa Acad. Sci. 45: 63-68 (1938) 1941.

Conard, H. S. Thirty-five Iowa mosses. Proc. Iowa Acad. Sci. 50: 181-183 (1943) 1944.

2. Conard, H. S. Thirty Iowa Liverworts. Proc. Iowa Acad. Sci. 47: 97-99 (1940) 1941.

12. *Entodon compressus*. Poweshiek County. A curious flagelliferous form, differing from that of the former distribution.
13. *Fissidens julianus*. Des Moines County. One of two known stations.
14. *Fissidens subbasilaris*. Muscatine County. Collected by T. E. Savage.
15. *Grimmia apocarpa brunnescens*. Allamakee County. The only known station. Here reported for the first time. Dr. Sayre says this does not match the European material, but is identical with Holzinger's 379 (conferta).
16. *Grimmia plagiopodia*. Jasper County. The only known station. Cf. Sayre, G. The Grimmiads of Iowa, *The Bryologist*, 37: 29-34. 1934 (Sept. 12).
17. *Grimmia pulvinata*. Jasper County. The only known station. Cf. Sayre, as above.
18. *Hygrohypnum bestii*. Delaware County. The only known station; probably introduced. Here reported for the first time. Part determined by A. J. Grout.
19. *Leptodictyum riparium fluitans*. Muscatine and Dickinson Counties.
20. *Leskea polycarpa*. Abundant in a few stations in northwestern Iowa (two stations known to me).
21. *Lindbergia brachyptera austinii*. Very widely distributed, but occurring mostly in scattered slender strands.
22. *Philonotis longiseta*. Muscatine and Marion Counties.
23. *Physcomitrium hookeri*. Woodbury County. Abundant at times in northwestern Iowa.
24. *Pohlia pulchella* (*P. lescuriana*). Muscatine County. The only known station. Not seen since 1902.
25. *Pyramidula tetragona*. Winneshiek County. Rarely seen.
26. *Rhodobryum roseum*, c.fr. Dubuque County. Detected and collected by J. and M. Dockal. Distributed previously without capsules.
27. *Tortella tortuosa*. Jackson County. The only collection. Here reported for the first time.

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