

Proceedings of the Iowa Academy of Science

Volume 39 | Annual Issue

Article 8

1932

Notes on Iowa Mosses. V.

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Recommended Citation

Cavanagh, Lucy M. (1932) "Notes on Iowa Mosses. V.," *Proceedings of the Iowa Academy of Science*, 39(1), 53-55.
Available at: <https://scholarworks.uni.edu/pias/vol39/iss1/8>

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NOTES ON IOWA MOSSES. V

LUCY M. CAVANAGH

Work during the past year on the collection of mosses in the Herbarium of the State University of Iowa has brought to light six species new to the state. Several other species, rare in the state, that have been found in new localities also seem worthy of note.

The collections on which this report is based were made chiefly by Dr. B. Shimek, and the species here listed were collected by him unless otherwise specified.

I. SPECIES NOT PREVIOUSLY REPORTED FROM IOWA

Family *DICRANACEAE*

Selania cæsia Lindb.

On sandy banks near Bayfield, Muscatine County, March, 1903.

This is given in Grout's key as "a rather rare moss of cool elevated situations. Growing on soil on banks and in crevices of rocks."

Family *EPHEMERACEAE*

Ephemerum crassinervium Hampe.

On sandy slopes above Sweetland Creek. October 25, 1902.

Family *TORTULACEAE*

Desmatodon Porteri James.

Collected at Wildcat Den, Muscatine County, by Dr. T. E. Savage. May 12-13, 1899..

Family *FUMARIACEAE*

Physcomitrium immersum Sulliv.

On a mud-flat at the edge of a pond near Bayfield, Muscatine County, October 25, 1902.

This species was reported in a former volume of these Proceedings by Miss Betty Blagg, but this report was corrected and the species was withdrawn in a later paper by Miss Blagg herself.

Family *BRYACEÆ*

Pohlia Lescuriana (Sulliv.) Grout.

On a sandy, shaded bank along Sweetland Creek. May 8, 1903.

The specimens do not agree entirely with the published descriptions of this species, but seem to be the same as number 220 in

Holzinger's set of *Acrocarpus* Mosses and distributed under the name *Webera Lescuriana* Sulliv.

Our specimens, like those in the Holzinger set, show two cilia instead of one as described in the Lesquereux and James Manual.

The following species, also new to the state, were identified and submitted by Dr. H. S. Conard for publication in this list:

Family *DICRANACEÆ*

Pleuridium alternifolium (Kaulf.) Rabenh.

In thin pasture, among grasses. Moore, Poweshiek County. April 2, 1932.

Family *EPHEMERACEÆ*

Acaulon rufescens Jaeg.

In a field with dead grass litter. Collected below Arbour Lake, Grinnell, Iowa, April 25, 1932, by Helen French.

Family *TORTULACEÆ*

Desmatodon plinthobius Sulliv. and Lesq.

Collected on "Redrock Sandstone" riprap, north of C. R. I. & P. tracks, 1 mi. west of Grinnell, Iowa, April 27, 1932, by E. Collette.

2. NOTES ON OTHER SPECIES

Pyramidula tetragona Brid.

In a sandy alluvial field along the Cedar River, near Bayfield, Muscatine County.

This seems to be a very rare species. It is not given in the Grout key and is reported by Lesquereux and James only from Texas, Indiana and Colorado. This is the second time it has been collected in Iowa, the other specimen, coming from the Sioux Quartzite ledges in Lyon County, having been included in a report by Dr. T. E. Savage before this Academy in 1898.

It is closely related to *Physcomitrium*, differing in the calyptra which completely covers the capsule, and in the long excurrent costa.

Aphanorhegma serratum (Hook & Wils.) Sulliv.

On a mud-flat near the edge of a pond near Bayfield, Muscatine County. October 25, 1902.

This was mixed with *Physcomitrium immersum* which it resembles so closely that a microscopic examination of the walls of the capsule is necessary to distinguish them. There is also a difference in the antheridia, but these were not in evidence.

It was previously reported from Emmet County by B. O. Wol-den, and from Poweshiek County by Dr. H. S. Conard.

Bartramia Ædcri (Gunn.) Swtz.

On shaded banks above Sweetland Creek, Muscatine County. October 18, 1902.

It was previously reported only from Allamakee County by the writer.

Climacium Kindbergii (R. C.) Grout.

On moist ledges of St. Peter Sandstone near McGregor, Clayton County. October 20, 1931.

According to Grout this species grows typically in very wet places. It was previously reported by Miss Betty Blagg from Fayette County.

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