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Additional Notes on Iowa Mosses

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ADDITIONAL NOTES ON IOWA MOSSES

BETTY BLAGG

Since May, 1927, thirty-five new species and varieties of moss have been added to the collection at Iowa Wesleyan College. While the writer had not thought it possible, on account of other duties, to continue the study of mosses, they have proved so irresistibly fascinating that a few specimens have been picked up, although at decidedly odd moments. One day, however, was spent in a definite collecting trip, in Grannis Hollow, Fayette county. In that one hollow twelve species were found not hitherto reported for Iowa. One hardly dares imagine the number that might be found if a thorough study were made of northeastern Iowa, that most fruitful region of the whole state, where apparently no work has been done. Of the thirty-five species added to the Blagg list since May, 1927, nineteen are new for Iowa.

Mr. B. O. Wolden, of Estherville, has also been adding to his collection of mosses of Emmet county. He has very kindly consented to permit the writer to include his findings, in order that the moss lists for Iowa will not be unnecessarily scattered. He reports twenty-two species new to his collection, fifteen of which are new to Iowa.

The purpose of this paper is to make a list of the mosses that have been added since May, 1927, to the Wolden and Blagg lists. As in the previous paper, the initials "S. W. B." have been used to indicate the species appearing in the Savage,¹ Wolden² and Blagg³ lists.

For those species reported previously, the initials indicating the previous collector have been starred. The unstarred initial represents a new locality. For those not hitherto reported for Iowa, brief notes concerning date, locality, and habitat have been included. It is interesting to note that of the 135 species now reported for Iowa, twenty-four have been reported by all three collectors.

Dr. H. S. Conard, in going over the Grinnell mosses with his

¹ Savage, T. E. A Preliminary List of the Mosses of Iowa. Proc. Iowa Acad. Sci., Vol. VI, pp. 154-164. 1899.

² Wolden, B. O. Moss and Lichen Flora of Western Emmet County. Proc. Iowa Acad. Sci., Vol. XXVI, pp. 259-267. 1919.

³ Blagg, Betty. A Preliminary List of Iowa Mosses. Proc. Iowa Acad. Sci., Vol. XXXIV, pp. 125-132, 1927.

green plants class in February, 1928, reports one species new to Iowa which he has generously permitted the writer to include.

The writer is greatly indebted to Mr. E. B. Bartram, Bushkill, Pike county, Pa., and to Mr. George B. Kaiser, 6620 Germantown Ave., Pelham, Philadelphia, Pa., for many of the determinations and verifications of doubtful species. Grateful acknowledgement is also due Professor H. E. Jaques of Iowa Wesleyan College, and to Professor H. S. Conard of Grinnell College, for their helpful suggestions.

The following figures and list, arranged according to Grout,⁴ show briefly the work done on Iowa mosses between May, 1927, and May, 1928.

No. species added to Wolden collection.....	22
No. species added to Blagg collection.....	35
No. species new for Iowa reported by Wolden only.....	10
No. species new for Iowa reported by Blagg only.....	14
No. species new for Iowa reported by both Wolden and Blagg..	5
No. species new for Iowa reported by Conard.....	1
Total number of species new for Iowa.....	30
Total number of species reported for Iowa.....	135

POLYTRICHACEAE

Catharina crispa James.....W.
Banks of Des Moines river near Estherville; 10 Sept., 1927; on clay.

FISSIDENTACEAE

Fissidens incurvus Schwaegr var. *minulutus* Austin.....S.* B.
Fissidens obtusifolius Wils.....B.
Canyon near Big Rock, Fayette Co.; 31 July, 1927; in rock crevices.

DICRANACEAE

Dicranella varia (Hedw.) Schimp.....S.* B.

GRIMMIACEAE

Hedwigia albicans (Web.) Lindb.....W.
Estherville; 1 Aug. and 18 Nov., 1927; on large granite boulder.

TORTULACEAE

Weisia viridula (L.) Hedw.....S.* W. B.*
Weisia viridula crispata C. M.....B.
Grinnell; April, 1926; on ground.
Gymnostomum calcareum Nees and Hornsch.....B.
Grannis Hollow, Fayette Co.; 26 July, 1927; on rock.
Didymodon rubellus (Hoffm.) B. and S.....B.
Grannis Hollow, Fayette Co.; 26 July, 1927; on rock.
Barbula unguiculata (Huds.) Hedw.....S.* W. B.*
Barbula fallax Hedw.....B.
Grannis Hollow, Fayette Co.; 26 July, 1927; on rock.
Desmatodon arenaceus S. & L.....S.* B.
Tortula mucronifolia Schwaegr.....W. B.
Woods near Estherville; 31 May, 1927; on ground; B. O. Wolden.
Volga river above Eagle's Point, Fayette Co.; 25 July, 1927; base
of tree; B. Blagg.

⁴ Grout, A. J. Mosses with Handlens and Microscope. Published by the author. Brooklyn, New York. 1903.

FUNARIACEAE

- Aphanorhegma serratum* Sulliv.-----W.
 Estherville; 10 Sept., 1927; on mud along river bank.
Physcomitrium immersum Sulliv.-----H. S. Conard
 Moore, Poweshiek Co.

BARTRAMIACEAE

- Philonotis fontana* (L.) Brid.-----W.
 Shore of Swan Lake, Emmet Co.; 12 June, 1927; on sand. In quaking
 bog north of Estherville; 12 July, 1927.

BRYACEAE

- Leptobryum pyriforme* (L.) Wils.-----S.* B.
Pohlia nutans (Schreb.) Lindb.-----S.* W.
Mniobryum albicans (Wahlenb.) Limpr.-----W.* B.
Mnium affine ciliare (Grev.) C. M.-----B.
 Grannis Hollow, Fayette Co.; 26 July, 1927; on rock in Parker's
 spring.
Mnium affine rugicum B. & S.-----W.* B.
Mnium Drummondii B. & S.-----B.
 Grannis Hollow, Fayette Co.; 26 July, 1927; on rock.
Mnium marginatum (Dichs.) P. Beauv.-----B.
 Grannis Hollow, Fayette Co.; 26 July, 1927; on rock.

LESKEACEAE

- Thuidium Virginianum* (Brid.) Lindb.-----S.* B.
Thuidium microphyllum (Sw.) Best.-----W. B.
 Grannis Hollow, Fayette Co.; 26 July, 1927; on rock. B. Blagg.
 Estherville; 18 Nov., 1927; on bark at base of tree; B. O. Wolden.
Leskea polycarpa Ehrh.-----S.* W.
Leskea polycarpa paludosa (Hedw.) Schimp.-----W. B.
 Volga river above Eagle's point, Fayette Co.; 25 July, 1927; on rock.
 On shingles on old roof, Fayette; July, 1927. B. Blagg.
 Estherville; 30 Sept., 1927; at base of trees. B. O. Wolden.
Leskea obscura Hedw.-----S.* W. B.*
Thelia asprella (Schimp.) Sulliv.-----S.* W. B.*
Myurella careyana Sulliv.-----B.
 Grannis Hollow, Fayette Co.; 26 July, 1927; on rock.

HYPNACEAE

- Brachythecium flexicaule* R. & C.-----B.
 Woods near Estherville; 7 Aug., 1926.
Brachythecium digastrum C. M. & Kindb.-----W.
 Estherville; 1 Aug., 1927; on soil in woods.
Brachythecium acutum (Mitt.) Sulliv.-----W.* B.
Brachythecium rutabulum (L.) B. & S.-----W. B.
 Grannis Hollow, Fayette Co.; 26 July, 1927; on rock. B. Blagg.
 Estherville; 18 Nov., 1927; on bark at base of tree. B. O. Wolden.
Brachythecium rivulare B. & S.-----W.* B.
Brachythecium acuminatum (Hedw.) Kindb.-----S.* W.* B.
Bryhnia Novae-Angliae (Sulliv. and Lesq.) Grout.-----B.
 Grannis Hollow, Fayette Co.; 26 July, 1927; on rock.
Drepanocladus vernicosus (Lindb.) Warnst.-----W.
 Estherville; 12 July, 1927; in bog.
Drepanocladus revolvens (Sw.) Warnst. var. *intermedius* (Lindb.)--W.
 Estherville; 19 May, 1926; in bog near Des Moines river.
Cratoneuron filicinum (L.) Roth.-----W.* B.
Campyllum hispidulum (Brid.) Mitt.-----S.* B.
Campyllum chrysophyllum (Brid.) Bryhn.-----W.* B.
Campyllum radicale (P. Beauv.)-----W.
 Estherville; 2 Oct., 1927; on ground.
Amblystegium serpens (L.) B. & S. var. *tenue* (Schrad.) B. & S.--W.
 Estherville; 18 Nov., 1927; on bark.

- Amblystegium Jurastkanum Schimp.-----B.
 Lake Okoboji, Dickinson Co.; 20 July, 1926; on wood.
 Amblystegium orthocladon (P. B.) Kindb.-----W. B.*
 Hygrohypnum orchraceum (Turn.) Loeske-----B.
 Grannis Hollow, Fayette Co.; 26 July, 1927; on rock.
 Plagiothecium deplanatum (Sch.) Grout-----W. B.
 Grannis Hollow, Fayette Co.; 26 July, 1927; on rock. B. Blagg.
 Estherville; Nov., 1927; on soil in woods. B. O. Wolden.
 Amblystegiella subtilis (Hedw.) Loeske-----W.
 Swan Lake, Emmet Co.; 12 June, 1927; at base of tree.
 Amblystegiella confervoides (Brid.) Loeske-----B.
 Volga river above Eagle's Point, Fayette Co.; 25 July, 1927; on rock.
 Amblystegiella adnata (Hedw.) Nichols-----S.* W.* B.
 Platygyrium repens (Brid.) B. & S.-----W.* B.

IOWA WESLEYAN COLLEGE,
 MOUNT PLEASANT.