1958-01

Notes on the Hepatic Flora of the Athens Area

Hall, Gustav W.
NOTES ON THE HEPATIC FLORA OF THE ATHENS AREA

GUSTAV W. HALL
Department of Botany, Ohio University, Athens

In comparison with the hepatic flora of many adjacent states, that of Ohio has received relatively little attention. Since 1953, the writer has collected extensively in southeastern Ohio, chiefly in the neighborhood of Athens. Apparently no records of any liverworts from this area have been published. This report attempts to summarize all collections from the area up to the present.

An unpublished thesis by McCleary (1946) deals chiefly with mosses but furnishes authenticated records of 10 hepatics. Prescher (1946) collected approximately 38 species from Athens Township. The total reported was higher but unfortunately has been reduced by misidentified or unsatisfactory material.

Fifty-eight species, supported by specimens, are recorded at present. Substrate as observed in the area, relative abundance, and one collection from Athens County are cited for each. Records from neighboring Meigs and eastern Vinton County, which were included in this study, are appended. The writer's collections are referred to merely by collection number; those of others by collector and date. All specimens cited are deposited in the Ohio University Herbarium in Athens.

Liverworts are almost universally less common and occupy a narrower spectrum of habitats than mosses. The unglaciated hill country of southeastern Ohio is quite favorable, however, and comparatively rich in species. Constant moisture of the substrate and of the air is required by most liverworts, and damp, coarse-grained sandstone in rich, shady ravines is the outstanding hepatic habitat in the Athens area. Only a few species venture into relatively dry, exposed situations.

**Ptilidiaceae**


**Lepidoziaceae**

*Bazzania denudata* (Torrey) Trevis. A single collection, from moist sandstone: 289, Waterloo Game Preserve.

*Bazzania trilobata* (L.) S. F. Gray. On moist sandstone, occasionally on adjacent mossy soil. Uncommon. 551, two miles north of Mineral. Also Vinton County: 2674, in ravine adjacent to Moonville Tunnel, Brown Twp. This species is much more widespread and luxuriant in the Hocking Caves region to the northwest.

*Lepidozia reptans* (L.) Dumort. On moist sandstone, sometimes decaying logs. Uncommon. 651, one-half mile northeast of Carbondale.

**Calypogeaceae**

*Calypogea trichomanis* (L.) Corda. Chiefly on moist sandstone overhangs. Common. 649, one-half mile northeast of Carbondale. Also Vinton County: 2902A, near Piney Point of Lake Hope; Meigs County: 183, near junction of Rte. 33 and Kingsbury Creek.
**Cephaloziaceae**

*Cephalozia bicuspidata* (L.) Dumort. On moist sandstone, sometimes soil. Rather common. 190, Waterloo State Forest.


*Norveilia curvifolia* (Dicks) Mitt. On moist decorticated logs, less frequently on sandstone. Rather common. 611, Stroud's Run, Canaan Twp. Also Vinton County: 2690, near Piney Point of Lake Hope.

*Odontoschisma denudatum* (Mart.) Dumort. A single collection, from a decaying stump: Blickle, July 27, 1946, Sec. 32-33, Athens Twp.


**Harpanthaceae**


*Lophocolea heterophylla* (Schrad.) Dumort. On wood, rocks, and soil. Quite common and widespread. 584, Burr Oak Lake, Trimble Twp.

*Chiloscyphus pallescens* (Ehrh.) Dumort. On moist rotting wood, soil, and sandstone. A few collections from Athens Twp. 683, Dobson's Hollow near Athens.

*Chiloscyphus polyanthus* (L.) Corda. A single collection, from moist soil: Prescher, June 20, 1946, Sec. 9-10-16, Athens Twp.

**Jungermanniaceae**

*L'ophozia incisa* (Schrad.) Dumort. In mats of *Cephalozia* on moist sandstone. Several collections, all from Athens Twp. 279, North Hill Caves near Athens.

*Jungermannia lanceolata* L. On moist sandstone. Several collections, all from Rome Twp. 2272C, just south of Broadwell.

*Jungermannia pumila* With. A single scanty collection, from moist sandstone: Prescher, July 2, 1946, Sec. 5-6-12, Athens Twp.


*Nardia lescurii* (Aust.) Underw. One scanty collection, probably this species, from moist sandstone: Blickle, June 28, 1946, Sec. 32-33, Athens Twp.

*Plectocolea crenulata* (Smith) Evans. A single collection, from an exposed clay bank: 581, North Hill Caves near Athens.

*Plectocolea crenuliformis* (Aust.) Mitt. A single collection, from moist sandstone: Prescher, July 2, 1946, Sec. 5-6-12, Athens Twp.

*Plectocolea hyalina* (Lyell) Mitt. On moist sandstone. Rather common. 158, along Rte. 33 near West Branch of Shade River, Lodi Twp.

**Plagiochilaceae**

*Plagiochila asplenoides* (L.) Dumort. Chiefly on moist sandstone. Quite common and widespread. 663, along Rockcamp Creek, Waterloo Twp. Also Vinton County: 2681, near Piney Point of Lake Hope; Meigs County: 2682, Forked Run State Park.

**Scapaniaceae**


*Scapania nemorosa* (L.) Dumort. Chiefly on moist sandstone. Quite common and widespread. 237, two miles west of Broadwell. Also Vinton County: 2692, near Piney Point of Lake Hope.

Porellaceae

Porella pinnata L. On moist sandstone adjacent to waterfalls. Apparently rare. 211, Crumley's Run, Canaan Twp.
Porella platyphylla (L.) Lindb. [including P. platyphyloidea (Schwein.) Lindb.] On sandstone, limestone, tree bases, and decaying logs, chiefly along streams. Quite common and widespread. 648, one-half mile northeast of Carbondale. Also Vinton County: 2685, Lake Hope State Park.

Radulaceae

Radula complanata (L.) Dumort. On sandstone, sometimes limestone. Fairly common. 694, near Concord Church, Ames Twp.
Radula obconica Sulliv. On moist sandstone, often growing over rootlets and other bryophytes; sometimes tree trunks. Fairly common. 637, along Rte. 56 opposite the Waterloo Game Preserve. Also Vinton County: 2632, Vinton Furnace Experimental Forest; Meigs County: 738, Forked Run State Park.

Frullaniaceae

Frullania asa-grayana Mont. On dry sandstone. Rather common. 639, on Rte. 56 opposite the Waterloo Game Preserve. Also Meigs County: 2636, Forked Run State Park.
Frullania plana Sulliv. A single collection, from moist sandstone: 2615, Stroud's Run, Canaan Twp.
Frullania riparia Hampe. On moist sandstone, possibly indicating the presence of lime, and tree bases. Uncommon. 213, Crumley's Run, Canaan Twp. Also Vinton County: 2673, near town of Hope.
Jubula pennsylvanica (Steph.) Evans. On moist sandstone. Fairly common. 575, North Hill Caves near Athens. Also Meigs County: 2272, Forked Run State Park.

Lejeuneaceae

Leucolejeunea clypeata (Schwein.) Evans. On rather dry sandstone, sometimes tree bark. Fairly common. Prescher, June 24, 1946, Sec. 29-30, Athens Twp. Also Vinton County: 538, along Raccoon Creek near Moonville; Meigs County: 2640, Forked Run State Park.

Fossombroniaceae

Fossombronia wondraczeki (Corda) Dumort. On moist exposed soil. Fairly common. 605, near Buchtel Buffalo Bent.

Pelliaceae


Blasiaceae

Pallaviciniaceae

*Pallavicinia lyellii* (Hook.) S. F. Gray. On wet rotting wood, soil, and among other bryophytes on sandstone. Uncommon. 643, one-half mile northeast of Carbondale. The species is much more plentiful in peat bogs elsewhere in Ohio.

Metzgeriaceae

*Metzgeria conjugata* Lindb. Chiefly on moist sandstone. Fairly common. 2614, Stroud's Run, Canaan Twp. Also Meigs County: 2637, Forked Run State Park.

Riccardiaceae

*Riccardia multifida* (L.) S. F. Gray. A single sterile collection, probably this species, from a tree base: Blickle, September, 1953, one mile east of Athens.


Marchantiaceae

*Marchantia polymorpha* L. On wet soil. A few old collections from Athens Township from stations now apparently destroyed. Prescher, June 21, 1946, Sec. 9-10-16, Athens Twp.

*Preissia quadrata* (Scop.) Nees. A single collection, from a moist sandstone face: Robinson & Blickle, March 24, 1954, two miles south of Broadwell.

*Conocephalum conicum* (L.) Dumort. On moist sandstone and soil. Quite common and widespread. 610, Stroud's Run, Canaan Twp. Also Vinton County: 2661, Lake Hope State Park; Meigs County: 2641, Forked Run State Park.

Rebouliaceae


Ricciaceae

*Ricciocarpus natans* (L.) Corda. A single collection, from a stagnant pond: 2647, remains of old Hocking Canal north of Armitage. A few sterile thalli of *Riccia* sp. have been observed on a muddy bank of the Hocking River near Athens.

Anthocerotaceae

*Anthoceros laevis* L. On moist exposed soil and sandstone. Common. 216, Athens State Hospital grounds.

*Anthoceros punctatus* L. A single collection, from a moist streambank: Prescher, July 11, 1946, Sec. 1-2-7, Athens Twp.

*Notothylas orbicularis* (Schwein.) Sulliv. Collected at a single station: 589, on moist exposed soil in wet meadow trampled by cattle, Waterloo Game Preserve; probably in similar situations elsewhere.

ACKNOWLEDGMENTS

Sincere acknowledgment is given Dr. W. G. Gambill, who guided the study, Dr. A. H. Blickle, collector of many interesting specimens both for Prescher's work and the present study, Dr. Margaret Fulford who determined or verified a number of doubtful collections, and especially to Mr. Harold E. Robinson, who cooperated closely while working on his parallel study of the moss flora of the area.
REFERENCES


Conard, H. S. 1944. How to Know the Mosses, 2nd ed. Wm. C. Brown Co., Dubuque, Iowa.


