

1982

## Contributions To The Bryology Of Nebraska

Linda L. Spessard  
*Kearney State College*

Marvin C. Williams  
*Kearney State College*

Follow this and additional works at: <http://digitalcommons.unl.edu/tnas>

---

Spessard, Linda L. and Williams, Marvin C., "Contributions To The Bryology Of Nebraska" (1982). *Transactions of the Nebraska Academy of Sciences and Affiliated Societies*. 489.  
<http://digitalcommons.unl.edu/tnas/489>

This Article is brought to you for free and open access by the Nebraska Academy of Sciences at DigitalCommons@University of Nebraska - Lincoln. It has been accepted for inclusion in Transactions of the Nebraska Academy of Sciences and Affiliated Societies by an authorized administrator of DigitalCommons@University of Nebraska - Lincoln.

## CONTRIBUTIONS TO THE BRYOLOGY OF NEBRASKA

Linda L. Spessard and Marvin C. Williams

Department of Biology  
Kearney State College  
Kearney, Nebraska 68847

Fourteen Nebraska county records for bryophytes are presented. Twenty-four mosses in 19 genera and one species of liverwort are reported.

† † †

### INTRODUCTION

This paper lists bryophytes collected in the following Nebraska counties: Adams, Buffalo, Custer, Dawson, Hall, Harlan, Howard, Kearney, Phelps, Platte, Saline, Sioux, Valley, and Webster. The collections have been identified, catalogued, and placed in the Kearney State Herbarium.

Bryophyte reports have been made for the studied counties by: Webber (1889 and 1892), Evans (1924), Wolfe (1924), Koch (1971), Churchill (1977 and 1979), Churchill and Redfearn (1977), Jacobson and Prior (1979), and Williams and Spessard (1979), but none included the bryophytes listed here.

Twenty-four species in 19 genera of mosses and one liverwort species were collected by N. J. Czaplewski (NJC), J. R. Forney (JRF), M. G. Fougeron (MGF), D. R. Friskopp (DRF), D. L. Jensen (DLJ), and M. C. Williams (MCW). Nomenclature follows Crum, Steere, and Anderson (1973) for the mosses and Stotler and Crandall-Stotler (1977) for the liverwort. Collection numbers and voucher specimens are given for each collection.

### COLLECTIONS

#### Musci

*Amblystegium serpens* (Hedw.) B. S. G.

HARLAN CO: 0.4 km below Harlan County Dam on Republican River, MCW 252, near stream bank on N side of Republican River; 6.4 km S and 0.4 km E of Alma,

MCW 209, taken from rotting log. WEBSTER CO: Willa Cather Prairie, 9.2 km S and 0.8 km W of Red Cloud, MCW 71, on base of a concrete horse-tank; 0.4 km S and 4.4 km W of Guide Rock, DRF 23, on moist bank under *Ulmus americana* L.; 2.4 km S and 0.8 km E of Guide Rock, DRF 28, taken on shale and sand bluff on S side of E-W gravel road.

*A. varium* (Hedw.) Lindb.

HARLAN CO: 0.4 km below Harlan County Dam on Republican River, MCW 252, near stream bank on N side of Republican River. KEARNEY CO: 2.4 km W on River Road off US 10 S of Platte River, MCW and MGF 268, on moist, sandy soil.

*Barbula fallax* Hedw.

BUFFALO CO: 3.2 km S and 9.7 km E of Ravenna (Sweet Creek), DRF 20, in E road ditch about 6.5 m S of county-road bridge over Sweet Creek; 11.3 km N and 4.8 km E of Kearney, DLJ 259, on W side of road in ditch. KEARNEY CO: 8.0 km N, 1.6 km E and 0.4 km S of Minden, JRF 134, on shaded bank on S side of Dry Creek.

*B. unguiculata* Hedw.

KEARNEY CO: First road S of Platte River on US 44 S of Kearney, DLJ 246, on moist, sandy soil of creek bank. PHELPS CO: Rock Falls Historical Park, JRF 120, on rocks near falls above and on S side 0.6 m from water. WEBSTER CO: Willa Cather Prairie, S of Red Cloud, MCW 205a, on dry soil.

*Brachythecium oxycladon* (Brid.) Jaeg. and Sauerb.

ADAMS CO: 907 North Burlington Street, Hastings, JRF 107, NW side of house, growing in nearly constant shade beneath conifer.

*B. salebrosum* (Web. and Mohr) B. S. G.

PHELPS CO: 9.6 km W, 0.8 km S and 0.8 km W of Atlanta in Rock Falls Historical Park, JRF 118, growing on S side of stream on steep bank. SALINE CO: 3.2 km W of Dewitt, MCW 77, taken from bank of the Blue River under the railroad bridge. VALLEY CO: Ord, MCW 280, on base of *Ulmus americana*.

*Bryum algovicum* Sendtn. ex C. Muell.

BUFFALO CO: 4.8 km S of Shelton, JRF 136, growing at base of *Populus deltoides* Rydb.; Kearney westbound rest area on S side of I-80, DLJ 242, SW corner of pond along N side of road; rest area lake W of Kearney on I-80, DLJ 247, S of pond, 2 m from water's edge; Coot Shallows Wildlife Pond, 2.4 km W of Odessa Exit on I-80, DLJ 248, N side of pond along shore; 4.8 km N and 0.8 km E of Youth Development Center, DLJ 258, S side of road; Bassway Strip, DLJ 167, in shaded area near dead *Populus deltoides* but on soil; Bufflehead Wildlife Area, DLJ 169, on S side of lake on soil; Ravenna State Recreation Area, MCW 70, on moist, sandy soil. DAWSON CO: 0.8 km W of Cozad in city park, MCW 229, on soil under trees. HALL CO: 6.8 km S of Wood River on SE side of Platte River, MCW 212a, on moist soil. HARLAN CO: Near Republican River below Harlan County Dam, MCW 264, on moist, sandy soil; 2.4 km S and 1.6 km W of Alma, MCW 266, on moist soil near stream bank. KEARNEY CO: Lillian Rowe Sanctuary, MCW 188, on N side of bank, on moist soil; 2.4 km W on River Road off US 10 S of Platte River, MCW and MGF 268, on moist, sandy soil.

*B. argenteum* Hedw.

ADAMS CO: 907 North Burlington Street, Hastings, JRF 106, growing on soil in shade of house. HARLAN CO: 14.5 km N of Republican City, MCW 208, on soil near roadside. WEBSTER CO: Pawnee Dam 14.5 km E and 5.6 km S of Red Cloud, MCW 74, on wooden bridge near irrigation canal.

*Campylium hispidulum* (Brid.) Mitt.

BUFFALO CO: 12.9 km N and 4.0 km E of Kearney on US 10, DLJ 257, on soil in ditch.

*Ceratodon purpureus* (Hedw.) Brid.

HARLAN CO: Harlan County Reservoir, MCW 300, on moist soil.

*Drepanocladus aduncus* (Hedw.) Warnst.

HARLAN CO: Below Harlan County Dam, MCW 210c, on moist soil.

*Entodon cladorrhizans* (Hedw.) C. Muell.

CUSTER CO: Victoria Springs Special Use Area, MCW

61, on fallen *Salix* sp. log over shallow, marshy backwater of Victoria Creek.

*Funaria hygrometrica* Hedw.

HALL CO: 4.8 km S of Grand Island, MCW 231, on moist, sandy loam.

*Hygroamblystegium tenax* (Hedw.) Jenn.

SIOUX CO: 9.6 km N, 4.0 km W of Harrison, NJC 58, on dry rock in creek; Gilbert Baker Wildlife Area, Monroe Canyon Creek, 8.0 km N, 2.8 km W of Harrison, NJC 60, on half-submerged rock in stream.

*Leptobryum pyriforme* (Hedw.) Wils.

PHELPS CO: Rock Falls Historical Park, JRF 119, growing on rocks of falls at edge of water.

*Leptodictyum riparium* (Hedw.) Warnst.

ADAMS CO: 907 North Burlington Street, Hastings, JRF 108, growing on soil at SE corner of house near bushes. PHELPS CO: Along Spring Creek, MCW 213, growing on rocks along creek; Rock Falls Historical Park, JRF 121, on bark at base of tree. WEBSTER CO: 1.6 km S and 2.8 km W of Red Cloud, DRF 26, on moist bank of Indian Creek; 4.8 km S and 0.2 km W of Red Cloud, DRF 24, moist soil; 6.4 km S and 4.0 km E of Red Cloud, DRF 21, on wet soil; near Argyl Recreation Area, Red Cloud, MCW 72, on soil near creek-bed bridge.

*Leskea gracilescens* Hedw.

SALINE CO: Tuxedo Park, Crete, MCW 78, on bark at the base of *Fraxinus americana* L. WEBSTER CO: 1.6 km S and 2.4 km W of Guide Rock, DRF 25, on soil along Advent Creek; Willa Cather Prairie S of Red Cloud, MCW 69, on soil at base of tree.

*L. obscura* Hedw.

SALINE CO: 4.0 km S, 1.6 km W of Wilbur, MCW 81, on bark of dead tree along the bank of Blue River.

*Mnium cuspidatum* Hedw.

HALL CO: 1223 West 10th Street, Grand Island, MCW 99, on soil near base of house. HOWARD CO: Loup River, 4.8 km N of St. Paul, DLJ 250, on shaded soil. WEBSTER CO: 2.4 km S and 0.8 km E of Guide Rock, DRF 29, on sand and shale bluff on the S side of E-W gravel road.

*Orthotrichum pumilum* Sw.

HALL CO: 7.2 km S of Wood River on SE side of Platte River, MCW 212b, on tree bark. WEBSTER CO: 0.4 km S and 3.6 km W of Guide Rock, DRF 27, on bark of fallen *Acer negundo* L.

*Physcomitrium pyriforme* (Hedw.) Hampe

HARLAN CO: Below Harlan County Dam, MCW 210b, on moist soil. SALINE CO: 4.0 km S, 1.6 km W of Wilbur, MCW 76, on moist soil along Blue River. WEBSTER CO: Willa Cather Prairie, S of Red Cloud, DRF 21, on moist soil.

*Platygyrium repens* (Brid.) B. S. G.

CUSTER CO: Victoria Springs Special Use Area, 1.6 km S, 9.7 km E of Anselmo, MCW 62, on bark of dead tree.

*Rhynchostegium serrulatum* (Hedw.) Jaeg. and Sauerb.

WEBSTER CO: Near Argyl Recreation Area near Red Cloud, MCW 73, moist soil near edge of creek.

*Tortula mucronifolia* Schwaegr.

SIOUX CO: 9.7 km N, 4.0 km W of Harrison, NJC 57, on moist soil-bank of creek.

## Hepaticae

*Marchantia polymorpha* L.

PHELPS CO: Snake River Falls, 9.7 km W of Atlanta, MCW 233, on moist soil.

## SUMMARY

Twenty-four mosses and one species of liverwort are reported from 14 Nebraska counties. These represent range extensions for the known bryophyte flora of Nebraska and are records for the 14 counties.

## ACKNOWLEDGMENTS

This work was partially funded by the Research Services Council of Kearney State College.

## REFERENCES

Churchill, S. P. 1977. Contributions toward a moss flora of Nebraska II. *Bryologist*, 80:160-162.

\_\_\_\_\_. 1979. Mosses of the Great Plains III. Additions to Nebraska and the Black Hills of South Dakota and Wyoming. *Bryologist*, 82:72-75.

\_\_\_\_\_, and P. L. Redfearn, Jr. 1977. The Hepaticae and Anthocerotae of Nebraska. *Bryologist*, 80:640-645.

Crum, H. A., W. C. Steere, and L. E. Anderson. 1973. A new list of mosses of North America, north of Mexico. *Bryologist*, 65:85-130.

Evans, A. W. 1924. Report on the Hepaticae of Nebraska. *Bryologist*, 27:49-52.

Jacobson, D. E., and P. V. Prior. 1979. Additions to the moss flora of Nebraska. *Bryologist*, 82:622.

Koch, R. G. 1971. Pottiaceae in Nebraska. *Bryologist*, 74:206-207.

Stotler, R., and B. Crandall-Stotler. 1977. A checklist of the liverworts and hornworts of North America. *Bryologist*, 80:405-428.

Webber, H. J. 1889. Catalogue of the flora Nebraska. Proto-phyta-Antophyta. In C. E. Bessey and H. J. Webber, *Report of the botanist on the grasses and forage plants, and the catalogue of plants*. Lincoln, Nebraska Board of Agriculture: 232-234.

\_\_\_\_\_. 1892. Appendix to the catalogue of the flora of Nebraska. *Transactions of the Academy of Sciences of St. Louis* (Contributions from the Shaw School of Botany), 4:20-21.

Williams, M. C., and L. L. Spessard. 1979. A list of the mosses of Buffalo and Kearney counties, Nebraska, held in the Kearney State College Herbarium. *Transactions of the Nebraska Academy of Sciences*, 7:83-85.

Wolfe, K. A. 1924. A list of Nebraska mosses. *Bryologist*, 27:26-31.