

Meritorius Midwest Mosses

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Since 1988 the two of us, along with lichenologist Richard Harris, have jointly taken field trips within the United States. Initially we planned to write up the results in an independent publication in the style of the old expedition reports. Lack of time and energy have prevented us from indulging in such extravagances. Nevertheless, during our travels, which have ranged from Florida to Minnesota and from Oklahoma to Delaware, we have encountered a number of mosses that are either rare or unknown from the states in which they were collected. We therefore are using this opportunity to document the most interesting of our midwestern mosses so that the data will be available to those interested in the floristics of the areas under discussion. The floristic status of most of the species in this list, were determined using Redfearn (1987). The majority of our moss records collected during the 1991 Midwest Bryological Foray will be reported by Diana Horton in a forthcoming publication.

Barbula ehrenbergii (Lor.) Fleisch. Arkansas. Stone County: Ozark National Forest, Gunner Pool Recreation Area; hardwood forest and bluffs along Little Sylamore Creek, ca 1000 ft., 25 April 1988, *Allen 6285* (MO). New to Arkansas and the Boston Mountain region, previously known from seven Missouri counties on the Salem Plateau.

Bruchia flexuosa (Sw. ex Schwaegr.) C. Müll. Arkansas. Baxter County: Big Flat, Uncle Willie Huffines Park on State Rd. 14 at E end of town; on soil, 25 April 1988, *Allen 6283* (MO); *Buck 15868* (NY). This species deserves mention as an Arkansas county record, as well as for its interesting locality name.

Didymodon rigidulus Hedw. Arkansas. Searcy County: 4.1 mi W of jct with St. Rd. 263 on St. Rd. 14, at Baxter County Line; juniper-hardwood forest on steep dolomitic slope above stream, 25 April 1988, *Allen 6275, 6277* (MO). A second report of the species from the Interior Highlands and the first report for it from the Boston Mountain region.

Fissidens neonii (Bartr.) Grout Oklahoma. Cherokee County: ca 6 mi N of State Rd. 82 on State Rd. 100, where hwy crosses Terapin Creek. T.14N., R.22W., sect. 24; on moist soil along river, 23 April 1988, *Buck 15773* (NY). This species has not previously been reported from the Interior Highlands. Within the United States it is known from Louisiana, North Carolina and Alabama (Bowers & Timme, 1990).

Fissidens ravenelii Sull. Arkansas. Izard County: Calico Rock, ca 2 mi W of town on Calico Road; sandstone outcropping above White River, 26 April 1988, *Buck 15895* (NY). This is the second report of the species from the Salem Plateau of the Interior Highlands, and the first from that area in Arkansas.

Forsstroemia producta (Hornsch.) Par. Arkansas. Searcy County: 4.1 mi W of jct. with State Rd. 263 on State Rd. 14, at Baxter county line; on trunk of juniper in juniper-hardwood

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forest on steep dolomitic slope above stream, 25 April 1988, *Allen* 6269 (MO); *Buck* 15853 (NY). This is the second locality for the species in Arkansas.

Physcomitrella patens (Hedw.) Bruch & Schimp. in B.S.G. **Missouri.** St. Charles County: near Golden Eagle Ferry landing, off Co. Rd. B, ca 6.5 mi W of State Rd. 94; on muddy shore of the Mississippi River, 3 October 1991, *Allen* 10975 (MO); *Buck* 21025 (NY). **Illinois.** Jersey County: Pere Marquette State Park; growing on moist soil along the Illinois River, 3 October 1991, *Buck* 21022 (NY). This species was previously restricted in Illinois to the northern part of the state. In Missouri the species has been collected along the Mississippi and Missouri rivers. The Missouri collections reported here represent a new county record (Tan, 1978).

Ptychomitrium leibergii Best **Arkansas.** Marion County: vicinity of Crooked Creek, 1.9 mi W of Yellville city limit on US 62; juniper-oak forest over dolomite, 25 April 1988, *Allen* 6257, 6262, 6263 (MO); *Buck* 15842 (NY). Previously known in the Interior Highlands only from Ozark County, Missouri, this species is new to Arkansas.

Pottia bryoides (Dicks.) Mitt. **Minnesota.** Cottonwood County: ca 2 mi W of US 71, ca 14.5 mi N of Windom, ca 44° 05'40"N, 95°04'30"W, ca 400 m, Sioux quartzite outcrop on N side of road; seasonally dry, flat rock outcrop, 28 September 1991, *Allen* 10870 (MO); *Buck* 20866 (NY). In North America this species has been reported only from Arizona, California and Saskatchewan (Wareham, 1939).

Tortula chisosa Magill, Delgadillo & Stark **Oklahoma.** Cherokee County: ca 6 mi N of State Rd. 82 on State Rd. 100, where hwy crosses Terapin Creek, T.14N., R.22W., sect. 24; on sandstone bluff along river, 23 April 1988, *Allen* 6209 (MO); *Buck* 15747 (NY). Only described five years before these collections were made (Magill et al., 1983), the species has been reported in the United States from Texas and New Mexico. The thick-walled cross-walls of the basal leaf cells are much like those of *Encalypta* which may cause difficulties in identification. Redfearn's (1987) single report of *Tortula fragilis* (from the same locality) actually represents this species. *Tortula fragilis* is therefore excluded from the flora of the Interior Highlands of North America.

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