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Edwin B. Smith

University of Arkansas, Fayetteville

Barney L. Lipscomb

University of Arkansas, Fayetteville

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Some New or Otherwise Noteworthy Plants of the Arkansas Flora

EDWIN B. SMITH and BARNEY L. LIPSCOMB

Department of Botany and Bacteriology, University of Arkansas, Fayetteville, Arkansas 72701

ABSTRACT

During the last several years interesting additions have been made to the holdings of the University of Arkansas Herbarium at Fayetteville. A list of 24 species of vascular plants, new or rare in Arkansas, is presented. Many of these were collected by the second author during research for his Master's degree. Several were collected by Marie P. Locke, Pine Bluff, Arkansas.

During the last several years, representative specimens of a number of new or rare species collected in Arkansas have been deposited in the Herbarium at the University of Arkansas, Fayetteville. Many of these have not been reported from the state in earlier catalogs of the state flora (Branner and Coville, 1891; Buchholz and Palmer, 1926; Demaree, 1943), and it seems worthwhile to call them to the attention of other botanists of the area.

In the following list, dicots are listed first followed by monocots; the families, genera and species are listed alphabetically. Voucher specimens are on file in the U. of A. Herbarium at Fayetteville.

DICOTS

Amaranthaceae

Amaranthus palmeri S. Wats.

Baxter Co.; by a small creek running through Mt. Home, ¼ mi S of Holiday Inn on Hwy 62. B. L. Lipscomb 190; Sept. 22, 1974. This is a western species, rare in Missouri (cf. Steyermark, 1963).

Capparidaceae

Polanisia dodecandra (L.) DC. subsp. *dodecandra* var. *dodecandra*

Marion Co.; by Rush Creek, at Rush, S of Yellville about 18 mi. B. L. Lipscomb 191; Sept. 28, 1974. This is the variety with smaller flowers [var. *trachysperma* (T. & G.) Itis has larger flowers]. Steyermark (1963) includes Arkansas in its range, but on the basis of the Herbarium at Fayetteville the variety is previously known in the state only from Washington County.

Compositae

Bidens vulgata Green

Baxter Co.; by small creek across Hurst Road, 5 mi from jet with Hwy 62, vicinity of Cotter. B. L. Lipscomb 199; Oct. 26, 1974. A species similar to *B. frondosa* L., but with more numerous outer phyllaries and large achenes; listed by Smith (1973) as to be expected in Arkansas.

Prenanthes serpentaria Pursh

Grant Co.; Red Cockaded Woodpecker Sanctuary, SE of Sheridan. M. P. Locke 1179; Sept. 18, 1973. Also found in **Jefferson Co.;** near Hazel and Monticello Streets, Pine Bluff. M. P. Locke 1194; Sept. 24, 1973. This is an eastern U.S. species (cf. Radford et al., 1968), similar to *P. crepidinea* Michx. but with smaller heads and coarsely lobed leaves.

Cruciferae

Alliaria petiolata (Bieb.) Cavara & Grande (incl. *A. officinalis* Andrz. ex DC.)

Benton Co.; rare in loam at edge of field, 2.1 mi NW of jc Ark. 102 and 59, then 1.3 mi N. J. Test XIII-1-14; March 30, 1972. This species is not listed by Steyermark (1963), but is present in NE Kansas (Barkley, 1968) and parts of the eastern U.S. and Canada (Gleason, 1963).

Alyssum alyssoides L.

Marion Co.; first collected by D. M. Moore in small park about 1 mi NW of Yellville, April 6, 1973; later collected in fruit and identified by D. M. Moore and E. B. Smith, May 30, 1973. Fernald (1950) listed this species from eastern Canada, northeastern U.S. and California; Steyermark (1963) did not list it. It is the smallest of our yellow-flowered species of Cruciferae and has dense stellate pubescence.

Thlaspi perfoliatum L.

Benton Co.; common in back yard, 1416 W. Cypress, Rogers. G. Bradford 1; March 7, 1970. Also in **Washington Co.;** rich bottomland S of bridge over West Fork of White River, S of Greenland. R. Thompson 36; March 28, 1972. This largely northeastern U.S. species (cf. Radford et al., 1968; Steyermark, 1963) recently has been reported in Oklahoma (Magrath and Weedon, 1974).

Hypericaceae

Hypericum gymnanthum Engelm. & Gray

Fulton Co.; near very large pond, 1 mi W of Viola. B.L. Lipscomb 201; Sept. 29, 1974. Steyermark (1963) included Arkansas in the range of this species, but this is the first Arkansas record of it in the Herbarium at Fayetteville. Gary Tucker (pers. comm.) reports that the SMU Herbarium has a collection from **Dallas Co.** (Demaree 52552).

Labiatae

Mentha cardiaca Gerarde

Baxter Co.; along White River next to city park in Cotter. B.L. Lipscomb 193; Sept. 8, 1974. This is another northeastern U.S. species, rare in Missouri (Steyermark, 1963).

Leguminosae

Vicia grandiflora Scop.

White Co.; dry hillside, 2 mi W of Beebe. S.A. Wolfram

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49; April 17, 1971. This southeastern U.S. species (cf. Radford et al., 1968; Steyermark, 1963) has a large pale yellow corolla. Gary Tucker (pers. comm.) reports that the Herbarium at Russellville includes material from **Pope Co.** (E. Dahlem, s. n.).

Malvaceae

Anoda cristata (L.) Schlect.

Woodruff Co.; weed near Augusta; sent in for identification by Ford L. Baldwin, Extension Agronomist, Sept. 6, 1974. Also present in **Mississippi Co.**; weed in soybean field; sent in for identification by B.L. Fagala, Extension Agent, Sept. 17, 1974. Various ranges are given for this species (cf. Correll and Johnston, 1970; Radford et al., 1968; Steyermark, 1963), none including Arkansas.

Polygonaceae

Polygonum cuspidatum Sieb. & Zucc.

Jefferson Co.; roadside, near intersection of Good Faith Road and St. Louis & SW Railroad, Pine Bluff. Marie P. Locke 1594; Sept. 15, 1974. Escaped from cultivation.

Primulaceae

Lyssimachia nummularia L.

Baxter Co.; sprawling over rocks in small creek 3½ mi N of Gassville on Hwy 126. B.L. Lipscomb 194; Sept. 16, 1974. Steyermark (1963) does not include Arkansas in the range of this northern species.

Rubiaceae

Galium uniflorum Michx.

Jefferson Co.; Pine Bluff Arsenal, Pine Bluff. Marie P. Locke 1177; Sept. 5, 1973. This is a Coastal Plain species (cf. Fernald, 1950; Radford et al., 1968), previously reported for Arkansas only from **Stone Co.** (Browne, 1974). Gary Tucker (pers. comm.) reports he collected it in **Woodruff Co.**

Scrophulariaceae

Mazus japonicus (Thunb.) Ktze.

Woodruff Co.; weed in yard of Mrs. W.B. Vinzant, Augusta. Mr. and Mrs. Arnold Huenefeld 72-16; May 15, 1972. Also in **Jefferson Co.**; weed near intersection of Baraque and Idaho Streets in Pine Bluff. Marie P. Locke 1584; Aug. 18, 1974. This lawn weed may not be as rare as previous collections indicate; the writer found it on the campus of Southern State College in Magnolia; **Columbia Co.**; E.B. Smith 1848; April 11, 1975. Steyermark (1963) includes Arkansas in its range.

Mimulus ringens L. var. *ringens*

Fulton Co.; near very large pond, 1 mi W of Viola. B.L. Lipscomb 195; Aug. 17, 1974. Steyermark (1963) included Arkansas in the range of this species, but there was no material of it at the Herbarium at Fayetteville.

Veronica comosa Richter

Baxter Co.; at fresh water spring in city park of Cotter. B. L. Lipscomb 197; Aug. 14, 1974. The range of this species

shown by Steyermark (1963) indicates it would be in Arkansas, but there was no material of it from the state at the Herbarium at Fayetteville.

Solanaceae

Solanum sarachoides Sendtner

Baxter Co.; near small pond supplied by fresh water spring, 4 mi W of Mt. Home and about 0.5 mi N. B.L. Lipscomb 196; Oct. 13, 1974. Rare in Missouri (Steyermark, 1963).

Umbelliferae

Hydrocotyle umbellata L.

Fulton Co.; at edge of Mammoth Spring, Mammoth Spring. B.L. Lipscomb 198; Aug. 17, 1974. This species is not listed by Steyermark (1963); it has the flowers in a single umbel, in contrast with the several verticils of the more common *H. verticillata* Thunb. Gary Tucker (pers. comm.) reports that the Herbarium at Russellville has material of this species from **Newton Co.**

MONOCOTS

Alismaceae

Sagittaria engelmannia J.G. Smith subsp. *brevirostra* (Mack. & Bush) Bogin

Baxter Co.; at edge of large pond, 1 mi W of Cemetery Road, Mt. Home. B.L. Lipscomb 189; Sept. 7, 1974. Steyermark (1963) included Arkansas in the range of this subspecies, but there was no Arkansas material of it at the Herbarium at Fayetteville. Gary Tucker (pers. comm.) reports that the Herbarium at Russellville contains one sheet of this species from **Pope Co.** (D. Carr 19).

Cyperaceae

Eleocharis macrostachya Britt.

Baxter Co.; by large pond 4.7 mi SW of Mt. Home on Hwy 62. B.L. Lipscomb 192; Sept. 8, 1974. There was one other specimen of this species from Arkansas (**Newton Co.**; lake shore at Ponca; coll. by Krekeler s. n.; August 1943), but because of its apparent rarity it is included on this list.

Gramineae

Paspalum praecox Walt.

Chicot Co.; by Lake Chicot, Lake Village. Marie P. Locke 1397; Oct. 1, 1973 (det. by R. Freckman, U. of Wisconsin). This Coastal Plain species (cf. Correll and Johnston, 1970; Radford et al., 1968) has not been reported previously for Arkansas.

Pennisetum alopecuroides (L.) Spreng.

Drew Co.; escaped from cultivation; sent in for identification by Kenneth L. Smith, Extension Agronomist, August 1974. Cultivated under the name of "Pennisetum japonicum."

Lemnaceae

Wolffia papulifera Thompson

Boone Co.; in several ponds along Hwy 62, 3 mi E of

Harmon (also in ponds along Hwy 62 just into **Marion Co.**). B.L. Lipscomb 188; Sept. 12, 1974. This species also was seen in **Baxter Co.** Steyermark (1963) included Arkansas in the range of this species, but there was no material of it in the Herbarium at Fayetteville. Gary Tucker (pers. comm.) reports that the Herbarium at Russellville includes material of it from **Perry** (D. Little, s. n.) and **Newton** (G. Tucker 14303) **Counties**.

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