
NOTES ON OKLAHOMA PLANTS

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The following items either constitute new records for Oklahoma, in which case they are indicated by an asterisk, or else are otherwise noteworthy. The specimens are deposited in the Bebb Herbarium.

**Portulaca retusa* Engelm. East slope of Black Mesa, Cimarron Co., Aug. 19, 1950, Goodman and Kelting 5375. Inasmuch as Oklahoma is about in the middle of the range of this species, it is likely that some specimens which have been considered as *P. oleracea* are *P. retusa*. The leaves of the Black Mesa collection are not retuse. The species was recognized by its tuberculate seeds.

**Arabis Fendleri* (Wats.) Greene var. *typica* Rollins. Black Mesa, Cimarron Co., May 15, 1948, Goodman and Waterfall 4825. This new record comes from the east edge of the range of the species, as indicated by Rollins (3).

**Cardamine bulbosa* (Schreber) BSP. McSpadden Falls, Cherokee Co., May 1, 1948, Goodman and Waterfall 4760. This species is native to the eastern half of the United States.

**Oxalis stricta* L. forma *viridiflora* (Hus) Fernald. One mile east of Antlers, Pushmataha Co., April 20, 1950, Goodman 5198.

**Oxalis violacea* L. var. *trichophora* Fassett. On top of ridge in forest litter, 7 miles west of Westville, Adair Co., May 7, 1950, Goodman 5253. This glandular phase was known heretofore from Missouri and Arkansas eastward.

**Euphorbia dentata* Michx. forma *cuphosperma* (Engelm.) Fernald. Edge of abandoned field, 3 miles south of Norman, Cleveland Co., Sept. 20, 1947, Goodman 4502; east slope of Black Mesa, Cimarron Co., Aug. 19, 1950, Goodman and Kelting 5385.

Peplis diandra Nutt. In water, Curtis Lake, Wister Reservoir area, LeFlore Co., July 10, 1949, Penfound 282b. To the author's knowledge the only other record of this genus in the state appears to be map 291 of Muenscher (1). Oklahoma is on the west edge of the range.

**Cuscuta umbellata* HBK. Growing on *Portulaca*, about 4 miles east of Kenton, Cimarron Co., Aug. 18, 1950, Goodman and Kelting 5359. The range given by Yuncker (4) is "southern United States".

**Trichostema dichotomum* L. var. *puberulum* Fern. and Grisc. Roadside, 6 miles south of Antlers, Pushmataha Co., Oct. 15, 1937, Hopkins and Cross 2201. This new generic record is based on a species and variety not known heretofore west of Missouri.

Gratiola brevifolia Raf. Shoreline, Curtis Lake, Wister Reservoir area, LeFlore Co., July 10, 1949, Penfound 295. The only other record of this species in the state is the specimen cited by Pennell (2). It reads, "Haskell, San Bois R., J. M. Bigelow." Lieutenant Whipple's expedition, with Dr. Bigelow as botanist, camped on San Bois River July 31 and Aug. 1, 1853. Dr. Penfound's collection, made nearly a century later, is from a station not more than 30 miles from this site.

LITERATURE CITED

1. MUENSCHER, W. C. 1944. Aquatic plants of the United States. Ithaca: Comstock Publishing Co., Inc.
 2. PENNELL, F. F. 1935. Scrophulariaceae of eastern temperate North America. Acad. Nat. Sci. Phila. Monogr. No. 1: p. 78.
 3. ROLLINS, R. C. 1941. Monographic study of *Arabis* in western North America. Contr. Gray Herb. no. 138: 392-394.
 4. YUNCKER, T. G. 1932. The genus *Cuscuta*. Mem. Torrey Botan. Club 18: 236-237.
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