HEUCHERA AMERICANA (SAXIFRAGACEAE) IN TEXAS

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ABSTRACT

The occurrence and distribution of Heuchera americana in Texas are clarified and expanded with documentation for five counties: Bowie, Cass, Harrison, Red River, and San Augustine. A distribution map and photo of a specimen from Harrison County are included.

KEY WORDS: Heuchera, Saxifragaceae, Texas, USA.

The purpose of this paper is to clarify and document the known distribution of Heuchera americana L. (Saxifragaceae) in Texas. The initial mention of the species in the state appears to be by Correll and Johnston (1970), who cited the distribution as northeast Texas. Hatch et al. (1990) cited the species as occurring in the Pineywoods, Post Oak Savannahs, and Blackland Prairies of the state, which was later referenced by Diggs et al. (1999) to include the species in their manual of the Illustrated Flora of North Central Texas. Johnston (1990) and Jones et al. (1997) also cited H. americana as occurring in the state. Turner et al. (2003) mapped the species as occurring in Bowie Co. Curiously, the PLANTS database (USDA, NRCS 2011), Wells (1984), and Wells and Shipes (2009) do not mention the occurrence of H. americana in Texas.

Although the species has frequently been cited as occurring in the state, we have not located a published record of a specimen citation for Texas. The following list of exsiccata documents the occurrence of Heuchera americana in five Texas counties: Bowie, Cass, Harrison, Red River, and San Augustine (Fig. 1). We are including all collections because of the rarity of the species in Texas herbaria. The Harrison Co. specimen (Correll & Lundell 18785, SMU), the oldest Texas collection of the species located, is shown in Fig. 2.

Specimens cited: TEXAS. Bowie Co.: On wooded bluff along Rte. 559, 1 mile north of Wamba, 30 April 1969, Correll 37142 (LL); above waterworks Lake, just NE of Wamba, hardwood slopes, 13 Jul 1965, Correll 31281 (LL); Bringle Lake, a mesic white oak-chinquapin oak forest; fls cream, 15 April 2000, Holmes, Singhurst, & Baldridge 10831 (BAYLU, TEX); Bringle Lake, 1.4 mi. NE of Wamba,
Holmes, Singhurst, and Mink: *Heuchera americana* in Texas


The San Augustine station is approximately 240 km south of the only previously known records in Bowie Co. All of the Bowie Co. specimens are from the Bringle Lake area (a reservoir impounded in 1929) that has been heavily impacted by recent construction of a golf course and formation of Texas A&M University–Texarkana, with other development planned or in progress. *Heuchera* is considered to be a peripheral species in Texas, the distribution being continuous with that of Oklahoma, Arkansas, and Louisiana. It is of conservation concern (S1, with 6 or fewer populations, rare within Texas).

Within the state, the species occurs in hardwood forests growing on calcareous substrates subject to wet season seepage. Generally these forests are located at the base of slopes or on horizontal benches on slopes. Typical overstory trees include *Quercus alba*, *Carya tomentosa* (= *Carya alba*), *Acer rubrum*, *Fraxinus americana*, and *Carpinus caroliniana*. Understory woody vegetation consists of *Lindera benzoin*, *Itea virginica*, *Alnus serrulata*, *Viburnum rufidulum*, and immature specimens of the overstory vegetation. Associated herbaceous vegetation includes *Polystichum acrostichoides*, *Athyrium felix-femina* subsp. *asplenioides*, *Packera obovata*, *Carex* spp., and *Tipularia discolor*.

Correll and Johnston (1970) referred the Texas specimens of *Heuchera americana* to var. *brevipetala* Rosendahl, Butters, & Lakela, which was treated by Wells and Shipes (2009) as *H. americana* var. *americana*. All Texas specimens examined are referable to *H. americana* var. *americana*.

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**LITERATURE CITED**


Figure 1. Distribution of *Heuchera americana* in Texas. The numbers are in counties in which the species has been documented: 1. Red River; 2. Bowie; 3. Cass; 4. Harrison; and 5. San Augustin.
Figure 2. Correll & Lundell 18785 (SMU), from Harrison Co., Texas; the oldest Heuchera americana specimen from the state located during the study. Used with permission of BRIT Virtual Herbarium. Atrium Biodiversity Information System, Botanical Research Institute of Texas. http://atrium.brit.org. Accessed 11 Feb 2011.