

## **Justicia Warnockii (Acanthaceae), a New Species from Trans-Pecos Texas**

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**JUSTICIA Warnockii** Turner, sp. nov. Suffrutex humilis ramosissimus scoparius glaber ad 40 cm. altus caule ad 6 mm. diametro. Folia acicularia 3-15 mm. longa ad 1 mm. lata. Flores pauci solitarii sessiles ad axillas foliorum inferiorum vel in ramorum apicibus spicas interruptas formantes. Bracteae 3-4 mm. longae sub-filiformes calyce longiores. Calyx 2.5-3 mm. longus quinquefidus lobis subulatis 2-2.5 mm. longis. Corolla fugax 7.5-9 mm. longa bilabiata. Capsula glabra 7.5-8 mm. longa stipitata; semina 4 muriculata ovalia vel elliptica 2.6 mm. longa 2.4 mm. lata.

**JUSTICIA Warnockii** Turner, n. sp. Low, much-branched shrubby perennial 40 cm. tall or less; main stem up to 6 mm.



Figs. 1-3. *Justicia Warnockii*. Fig. 1. Anther cells: posterior, lateral, and anterior views. Fig. 2. Calyx and bracts. Fig. 3. Flower bud in leaf axil.

thick, covered with gray bark; ultimate branches yellow-green, very slender and crowded, broom-like. Whole plant glabrous. Leaves opposite, very slender or acicular, 3-15 mm. long, 1 mm. or less wide. Flowers few, solitary and sessile in the leaf axils or terminating the slender branches in interrupted spikes. Bracts 3-4 mm. long, linear or almost filiform, exceeding the calyx. Calyx 2.5-3 mm. long, 5-parted, the lobes subulate, 2-2.5 mm. long. Corolla fugacious, lavender with

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purplish blotches in two rows in the throat (these extending onto the lobes), 2-lipped, 7.5-9 mm. long; tube about 5 mm. long; lobes 4, the upper broad and straight, 2.5-2.7 mm. long by 1.3-2 mm. wide, notched at apex; lateral lobes of lower lip elliptic, small, 2.3 mm. long by 1.2 mm. wide, the central lobe concave, 2 mm. long by 3 mm. wide. Stamens slightly exerted; filaments attached about midway in the tube, 1.5-2 mm. long, glabrous; anther cells unequal, the upper smaller than the lower, 0.6 mm. long, lower one 0.7 mm. long with a curved tail; both cells calcarate and joined by a broad connective (fig. 1); pollen grains globose, inconspicuously ribbed, with 2 opposite pores. Ovary 1 mm. long, 2-celled, glabrous; ovules 2 in each cell; style 5.3 mm. long; stigma small, 2-cleft, reflexed. Capsule glabrous, 7.5-8 mm. long, stipitate, the stipe 3-3.2 mm. long; seeds 4, muriculate, oval to elliptic, 2.6 mm. long by 2.4 mm. wide. TYPE: Limestone slope one third way up Old Blue, Glass Mountains, Brewster Co., Texas, *Barton H. Warnock W325*, June 2, 1941 (in Herb. University of Texas; isotypes Texas, Sul Ross State College). Two other collections have been seen, both from Texas. BREWSTER Co.: limestone slopes of Reagan Canyon, 3 miles from the Rio Grande, *L. C. Hinckley & B. H. Warnock 461097*, Dec. 24, 1946 (Texas, Sul Ross). PECOS Co.: Mesa margins, *B. C. Tharp 43-854*, July 17, 1943 (Texas).

Named for Dr. Barton H. Warnock, tireless collector and student of the flora of Trans-Pecos Texas. Dr. Warnock reports (in letter) that the flowers are ephemeral, which may account for the species going so long unnamed. Fruiting specimens resemble *Carlowrightia linearifolia* (Torr.) Gray; most of the sheets examined were so named. The plant does not resemble vegetatively other species of *Justicia* found in the United States. It is assigned to that genus because of the tailed, obliquely placed anther-cells. Specimens cited are deposited in the Herbarium of the University of Texas and the Herbarium of Sul Ross State College, Alpine; I am indebted to the curators for the loan of their material. The Latin diagnosis was supplied by Dr. Lloyd H. Shinnars.