## Vascular Plants of Williamson County *Euphorbia fendleri* – FENDLER SPURGE [Euphorbiaceae]

Euphorbia fendleri Torrey & A. Gray, FENDLER SPURGE. Perennial herb, many-stemmed at base, < 10 cm tall; shoots with only cauline leaves, glabrous and glaucous. **Stems:** cylindric, 1 mm diameter, internodes to 2.5 mm long and swollen above node, pale green or pink-tinged, glaucous. Leaves: opposite decussate, simple, petiolate, with stipules; stipules 2, not fused to adjacent stipule at node,  $\pm$  acuminate, 0.6–1 mm long, pale green and glaucous, tip sometimes purple-red; petiole hemi-cylindric, 1-2 mm long, yellowgreen; blade ovate to inversely heart-shaped,  $5-7 \times 2.5-5$  mm, cordate to truncate or broadly tapered and somewhat oblique at base, entire, obtuse to acute at tip, inconspicuously pinnately veined with midrib scarcely raised on lower surface. **Inflorescence:** cyathium (= involucre with staminate flowers and 1 pistillate flower), appearing terminal, solitary and paired with elongating vegetative shoot; peduncle 1 mm long; cyathium ca. 2 mm wide (including spreading glands, lacking appendages); **involucre**  $\pm$  bell-shaped, initially  $1 \times 1$  mm, green and glaucous, with 5 bracts and 4 glands, the bracts of involucre fused most of length, the glands alternate with bracts (1 absent), nectar-producing, raised, horizontally oval,  $0.5-0.6 \times 0.65-0.8$  mm, somewhat fleshy, yellow-green; staminate flowers 35+ in 5 clusters, each with pedicel-like stalk, each cluster associated with 1 bractlet, the bractlet oblanceolate, ca. 1 mm long, white, fringed, the pedicel to 1.2 mm long, short-exserted from involucre and exserting flowers sequentially; pistillate flower on stalk (gynophore), at anthesis gynophore erect, 0.8 mm long, pale green, soon after gynophore elongating and becoming recurved with maturing ovary exserted. Staminate flower: reduced to 1 stamen; stamen filaments  $\pm 0.4$  mm long, white; anther conspicuously dithecal, each sac spheroid, 0.3 mm, pale yellow, longitudinally dehiscent; pollen pale yellow. **Pistillate flower: pistil** 1; ovary superior, 3lobed,  $0.8 \times 1$  mm, yellow-green, glabrous, 3-chambered, each chamber with 1 ovule; styles 3, fused at base, horizontal, 2-branched above midpoint. Fruit: capsule, 3-seeded, 3-lobed,  $1.7-2 \times 2.1-2.4$  mm, glabrous, elastically dehiscing along septa and chamber into 6 dry valves; pedicel  $\pm$  1.5 mm long, at maturity capsule often reflexed and touching cyathium involucre. Seed: quadrangular-ovoid, ca.  $1.5 \times 0.8$  mm, rose beneath frostywhite, finely netted epidermis, slightly wrinkled with a few circular depressions, grooved on obtuse ridge, acute on dorsal ridge, rounded on other angles. A. C. Gibson