

## Vascular Plants of Williamson County

### *Limnoscium pinnatum* – ARKANSAS DOGSHADE [Apiaceae]

*Limnoscium pinnatum* (DC.) Mathias & Const., ARKANSAS DOGSHADE. Annual, with clustered fibrous roots at base of shoot, 1-stemmed at base, not rosetted, with ascending lateral branches from cauline nodes, initially  $\pm$  erect but later reclined, in range to 50 cm tall; shoots with 1–2 basal leaves (often short-lived) and finely divided cauline leaf to 180 mm long, glabrous, not strongly aromatic. **Stems:** low-ridged with a broad furrow along each internode, to 4 mm diameter. **Leaves:** helically alternate, odd-1-pinnately compound with 1–4 pairs of lateral leaflets, petiolate with base sheathing almost  $360^\circ$ , without stipules; petiole to 50 mm long, ridged on lower side, basal sheath to 15 mm long, not inflated, upper portion channeled; blades of leaflets linear, to  $40 \times 1\text{--}2$  mm (lateral leaflets) and to  $75 \times 4$  mm (terminal leaflet), entire, acuminate at tip, parallel-veined with principal veins raised on lower surface. **Inflorescence:** compound umbel, terminal and axillary, with slender axes, flowering canopy several-forked below compound umbels, compound umbel flat-topped,  $< 20$  mm across, umbellets  $< 7$ , umbellet with 4+ bisexual and 2–3 staminate flowers, bracteate, glabrous; bract subtending peduncle with sheath to 10 mm long decreasing upward, linear; peduncle to 40 mm long; **involucre** of bases subtending primary rays, fused at base, narrowly ovate to triangular,  $1\text{--}2.5 \times 0.5$  mm, 1-veined, reflexed and persistent; primary rays unequal, slender,  $< 5\text{--}20$  mm long; bractlets of involucre subtending outer pedicels awl-shaped, narrowly triangular,  $< 1\text{--}1.5$  mm long, green; pedicels unequal, at anthesis to 5 mm long but of staminate flowers to 3 mm long. **Staminate flower:** radial, ca. 1.8 mm across; **sepals** 5, unequal, triangular, 0.25–0.5 mm on each flower, fleshy, green with narrow white margins, persistent; **petals** 5, widely spreading, equal, broadly elliptic,  $1 \times 0.7\text{--}0.8$  mm, white, with midridge on upper surface but lacking tail-like tip; **stamens** 5, free, white; filaments  $\pm 0.8$  mm long; anthers dorsifixed, dithecal, inverted heart-shaped, 0.4–0.5 mm long, longitudinally dehiscent; pollen white; **pistil** absent. **Bisexual flower:** radial, 2.2–2.5 mm across; **sepals** 5, unequal, triangular, 0.25–0.5 mm on each flower, fleshy, green with narrow white margins, persistent; **petals** 5, widely spreading, equal, broadly elliptic,  $1 \times 0.7\text{--}0.8$  mm, white, with midridge on upper surface but lacking tail-like tip; **stamens** 5, free, white; filaments  $\pm 0.8$  mm long; anthers dorsifixed, dithecal, inverted heart-shaped, 0.4–0.5 mm long, longitudinally dehiscent; pollen white; **pistil** 1; ovary inferior, 2-lobed,  $0.35 \times 0.8 \times 0.4$  mm, green, glabrous and lacking projections or ribs, 2-chambered, each chamber with 1 ovule; styles 2, ascending, with a nectar-producing platform (stylopodium) on top, D-shaped halves of stylopodium together  $0.6 \times 0.8$  mm, white, styles 0.2–0.25 mm long; stigmas terminal, minute. **Fruit:** schizocarp, of 2 dry, 1-seeded halves (mericarps), before splitting  $\pm$  ellipsoid, in range ca.  $2.2 \times (1\text{--})1.4\text{--}1.6$  mm + conic styler structure at top, before drying mericarp wall glossy striped brown and straw-colored (ribs) and smooth, 2 lateral ribs much broader; sepals spreading to ascending, triangular, to 0.5 mm long; stylopodium on top wavy and stigmatic lobes persistent.

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