

## Vascular Plants of Williamson County

*Ipomopsis rubra* – STANDING-CYPRESS, TEXAS PLUME [Polemoniaceae]

*Ipomopsis rubra* (L.) Wherry, STANDING-CYPRESS, TEXAS PLUME. Annual, woody taprooted, not rosetted, 1-stemmed base-to-tip, on vegetative plant lacking lateral branches and unexpanded axillary branches, in range to 160 cm tall; shoot with feathery basal leaves and cauline leaves, basal leaves and lower cauline leaves absent at flowering, vegetative shoot 55–70 mm diameter (leaves radiating from stem; older leaves drooping), essentially glabrous except on petioles of lower leaves; taproot eventually woody, to 15 mm diameter. **Stem:** cylindrical, to 10 mm diameter, with some persistent bases of blades, internodes 2–8 mm long, rose-red and whitish; woody lower stem with continuous or patches of brown periderm and hollow, white pith. **Leaves:** helically alternate, deeply pinnately divided having 7–16 threadlike lobes, the fine, flexible, divergent lobes never truly paired, petiolate (lower leaves) to sessile, without stipules; petiole of early leaves 10–16 mm long, decreasing upward, ciliate on edges aging without hairs; blade ovate or somewhat squarish to rectangular in outline, to 50 × 40 mm (cauline leaves), lobes lacking sublobes, channeled, (5–)15–35 × 0.5–0.8 mm, rounded on lower side, pinnately veined by veins obscure. **Inflorescence:** panicle of cymes, terminal, of 25–55 axillary, short, determinate lateral branch each with a terminal cyme of (1–)2–5(–7) flowers, bracteate, essentially glabrous; peduncle = stem; bract subtending flowering branch leaflike, to 24 mm long ± decreasing upward in length, width, and number of lobes; branch axis to 20 mm long, with 1–2 nodes with linear leaf < 12 mm long; bractlet subtending pedicel linear, at anthesis 5–5.5 mm long increasing to 11 mm long and mostly > pedicel in fruit, lower portion sheathlike and appressed to pedicel, with short, sharp point at tip, sparsely minute-ciliate on margins, brittle but ± persistent in fruit; pedicel cylindrical, at anthesis 3 mm long increasing 2–3× in fruit, glabrous. **Flower:** bisexual, radial, 15–20 mm across; **calyx** 5-lobed, 5.5–6.5 mm long; tube bell-shaped, with raised green panels connected by membranous panels stretched in fruit; lobes triangular, 3–3.5 × 1.5 mm, with membranous margins to midpoint; **corolla** 5-lobed, trumpet-shaped (salverform), mostly 28–33 mm long, glabrous; tube bell-shaped, 3 × 2 mm, white; throat 5-angled, 19–21 mm long, at orifice 5.5 mm diameter, scarlet (light yellow), inner surface finely 10-ribbed and paler in color, the ribs to sinuses = decurrent filaments; lobes ovate, 7.5–9 × 5.5 mm, scarlet (light yellow) with conspicuous large spots; **stamens** 5, fused to corolla at sinuses, exerted at different height 7–10 mm from corolla throat, with decurrent bases to top of corolla tube; filaments arising at same level on upper throat 3–4 mm below each sinus, unequal, 11–12 mm long, light scarlet (light yellow) but narrow and white at top; anthers dorsifixed, 2–2.4 mm long, pink-purple (light yellow), longitudinally dehiscent; pollen yellowish; **nectary disc** below ovary, 0.4 mm long, green, producing copious nectar; **pistil** 1, 21–31 mm long; ovary superior, narrowly ovoid, 3–4 × 1.3 mm, green, glabrous, 3-chambered, each chamber with ca. 10 ovules attached to center; style to 27 mm long, 3-branched, white at base ca. 7 mm, upper portion rose-scarlet (light yellow), the stigmatic branches ca. 1.5 mm long, white and short-papillate at tip. **Fruit:** capsule, loculicidal, 3-valved, 20+-seeded, ellipsoid to ovoid, 7.5–10 × 3.5–4.5 mm, orangish tan, valves < 2 mm long with spreading tips < 5 mm long. **Seed:** polyhedral with narrow wings and angles, 1.2–2 × ± 1 mm, tan to orangish tan.

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