Vascular Plants of Williamson County

*Callirhoe involucrata* var. *lineariloba* – WILLIAMSON COUNTY POPPYMALLOW, SLIMLOBE POPPYMALLOW [Malvaceae]

*Callirhoe involucrata* (Torrey) A. Gray var. *lineariloba* (Torrey & A. Gray) A. Gray, WILLIAMSON POPPYMALLOW, SLIMLOBE POPPYMALLOW. Perennial herb, taprooted, rosetted, several-stemmed at base, principal branches spreading with ascending tips, to 25 cm tall and procumbent principal shoots to 50 cm long; shoots with basal leaves and cauline leaves, leaves deeply palmate-lobed with sublobes at least to midblade and teeth, having long hairs with swollen cell at base (stellate hairs rarely observed). **Stems:** ± cylindric, to 4 mm diameter, tough, internodes to 115 mm long, having mostly spreading unbranched hairs to 2.5 mm long. **Leaves:** helically alternate, palmately (3)5-lobed and 7-lobed, long-petiolate, with stipules; stipules 2, attached across node, persistent, asymmetric-triangular to ovate (obovate) in outline, 3.5–9.8 × 5.5–8(–10) mm, the larger basal lobe roundish, ciliate with simple hairs having swollen cell at base on margins, broadly acute at tip, surfaces mostly lacking hairs (several unbranched hairs), green aging papery; petiole broadly channeled, to 153 × 1.2–1.5 mm, tough, with simple hairs; blade roundish to deeply kidney-shaped or inversely heart-shaped in outline, to 60 × 70 mm, principal lobes radiating from base trowel-shaped to obovate (broadly ovate), the largest to 40 × 27 mm, each lobe or major sublobe with 3 teeth at top, palmately (3)5-veined or 7-veined at base with principal veins sunken on upper surface and raised on lower surface, with unbranched hairs especially along veins. **Inflorescence:** solitary flower, axillary (= leafy raceme), bracteate, with unbranched hairs having swollen cell at base; bractlet = cauline leaf; pedicel at anthesis 35–105 × 1.5 mm, with twisting ridges descending from bracteoles, with spreading unbranched hairs and sometimes inconspicuous stellate hairs approaching flower, with 3 bracteoles at top of pedicel (epicalyx) pseudowhorled on 3-angled ring, reminiscent of sepals, spreading-ascending, linear-narrowly ob lanceolate to narrowly obovate or spatulate, appearing petiolate, 7–10 × 1.2–3.2 mm, green, ciliate having hairs with swollen bases on margins, surfaces veins not raised, glabrous. **Flower:** bisexual, radial 26–46 mm across; sweetly fragrant; **calyx** 5-lobed, to 13–24 mm long, green, outer surface with unbranched hairs especially along veins; tube cup-shaped to hemispheroid, 4–6 mm long, green, appearing warty when only basal portion of hair persistent; lobes spreading, somewhat unequal, ± broadly-acute triangular, to 18 mm long, 3–5 mm wide, reddish above midpoint, with 3 raised, principal veins from base, upper surface pilose and short-pilose with upward-pointing hairs; **petals** 5, fused to broad white base of staminal column, thick-clawed and narrowly fan-shaped ± truncate at top, 13–24 × 9–14 mm, whitish to pale pink with pale purplish pink veins with white claw, the veins > 20, the thickened, upper surface short-pilose, claw margins short-pilose ciliate with hairs ca. 3 mm, limb somewhat jagged on outer margin; **stamens** 50–100+, monadelphous (all fused part of length) forming column; tube enclosing styles 5–8(–10) mm long, ± 1.5 mm diameter at midpoint, white, expanded basal portion thick-walled, tube furrowed and with sparse, inconspicuous stalked glandular hairs, filament free portions spreading to ascending, < 3 mm long; anthers ± versatile, monothecal, 0.8–1.3 mm long, cream-colored, longitudinally dehiscent; pollen cream-colored to white; **nectary** fencelike surrounding ovary to midpoint and fused at base, 2-toothed per chamber, pale green; **pistil** 1; ovary
superior, tirelike with depressed center, 14–20-segments each 2-lobed, at anthesis 1.5–2 × 3–4 mm, dark green, upper portion glabrate with several short hairs and some short glandular hairs, many-chambered, each chamber with 2 portions, the lower portion with 1 fertile ovule and the upper portion with an aborted ovule; style arising in center at midpoint of ovary, to 15 mm long, forming a column ca. 2 mm long, whitish, with pink and rose, ascending, tentaclelike branches 1 per chamber, 7–12 × 0.1–0.2 mm, the terminal 2–3 mm exserted above anther, with decurrent, rose, papillate-hairy stigma on inner side. **Fruit:** schizocarpic capsule, septicidally breaking into segments (mericarps), each mericarp 1-seeded and indehiscent; intact fruit tire-shaped depressed in center, ca. 9.5–13.5 mm across and 3.5–4 mm tall, typically of 14–16 mericarps; mericarps wedgelike and D-shaped + a sterile, center-pointing flange, and 2-lobed on outer face, 3.5–4 × 4.5 × 1.8–2.3 mm, immature flange 1.5 mm long, green, and slightly elevated, with short, unbranched short-hirsute hairs mostly on top, seed chamber netlike on flat faces, covered on 2-lobed outer face and top by fleshy, opaque white to greenish tissue 1 mm thick aging dry, with several short-hirsute hairs on the innermost edge on top, when fleshy tissue removed seed chamber cover netlike and whitish drying brownish, D-shaped, ca. 3.5 × 3 mm; calyx tube appressed to side of wheel with lobe ascending outward or inward, covered with hirsute hairs. **Seed:** somewhat kidney-shaped (comma-shaped) with hilum in notch, 2.8–3 × 2 × 1 mm (somewhat loose in chamber, dark green aging dark brown, minutely textured.

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