

Vascular Plants of Williamson County
Scutellaria drummondii – DRUMMOND SKULLCAP [Lamiaceae]

Scutellaria drummondii Benth., DRUMMOND SKULLCAP. Annual, taprooted, 1–several-stemmed at base, not rosetted, principal shoots erect to ascending, 15–30 cm tall; shoots with only cauline leaves, axes and foliage initially densely glandular short-pilose but hairs often losing heads and appearing nonglandular. **Stems:** 4-sided, to 1.5 mm diameter, tough, green, densely short glandular-hairy (losing heads). **Leaves:** opposite decussate, simple, petiolate, without stipules; petiole ± hemicylindric, to 12 mm long, upper side with white midvein; blade ovate, 7–14+ × 4–11+ mm, tapered at base, low-crenate (lower cauline leaves) to entire on margins, acute at tip, with 3 prominent veins at base, conspicuously pinnately veined with principal veins sunken on upper surface and raised on lower surface, having mixed long and shorter hairs. **Inflorescence:** leafy raceme with a pair of flowers per node (opposite axillary flowers), flowers horizontally oriented, bracteate, glandular-hairy; bractlet subtending pedicel leaflike and sessile; pedicel ascending and curved, at anthesis 1–1.2 mm long increasing 2× in fruit, glandular short-pilose. **Flower:** bisexual, bilateral, 4.5–6 mm across; **calyx** 2-lipped, 5-lobed, at anthesis 2.5–3.5 mm long, consisting of a tube, 2 equal lips appearing pursed like a fish mouth, and a projecting platform (“appendage” or scutellum) on the upper side (visorlike) rising from the tube initially 2.5–3 mm long increasing to 5 mm long, aging more horizontal in fruit, outer surface glandular short-pilose with colorless heads often lost and appearing nonglandular, inner surface without hairs; tube bell-shaped, slightly compressed top-to-bottom, mostly green; platform a flattened sac that never inflates decurrent from near base of tube forming a crescent near the top of the tube and overarching the upper lip, basinlike (concave) with an upturned margin having longer hairs (to 1.5 mm); lips ± semicircular, 0.5–0.7 mm long, green or tinged purplish, entire, hairs long and mostly glandular-pilose; **corolla** 2-lipped, 5-lobed, 5.5–10 mm long; tube + throat somewhat funnel-shaped, 3–6 mm long, white at flared base to blue-violet above with several darker violet parallel veins on upper side, 3 mm wide at orifice, keeled on lower side; upper lip hoodlike (galea), ca. 2 mm long and < lower lip, blue-violet to blue, with stalked and sessile glandular hairs; lower lip 3-lobed, violet, shallowly crenate, approaching lobes with sessile glandular hairs and sparsely short-hairy, essentially lacking hairs on lateral and central lobes, lateral lobes horizontal, ca. 1.5 × 1 mm, blue-violet, central lobe notched forming 2 broad sublobes, approaching central lobes white and often 2 rows of blue-violet to blue spots with raised portions on floor to central lobe; **stamens** 4 in 2 pairs, fused to upper side of corolla, outer pair (lower stamens) arising ca. 3 mm from base of corolla at white-violet boundary, inner pair (upper stamens) decurrent on corolla and free ca. 1 mm from corolla throat orifice; filaments concealed in corolla hood, 6–7 mm long (lower stamens) and 1.5 mm long (upper stamens), white becoming pale violet approaching tip, hooked in hood displaying anthers downward, with short hairs on hook; anthers not exceeding hood, dorsifixed, unequally dithecal (upper stamens) and appearing monotheical with 1 diminutive sac (lower stamens), sacs to 0.4 mm long, white, short-hairy in lines for dehiscence, with sessile glandular hairs on faces, longitudinally dehiscent; pollen white; **nectary disc** on short stalk beneath ovary, incomplete, formed on low (abaxial) side appearing like a fifth ovary lobe, 0.6 mm wide, whitish; **pistil** 1, included, stalked (stipe), the stalk 0.5 mm long, green, and surrounded by ovary; ovary superior, deeply 4-lobed, lobes spheroid-obovoid, ca. 0.4 mm

long, pale green, minutely bumpy, 2-chambered, each chamber with 2 ovules; style attached at base of ovary between lobes (gynobasic), to 8 mm long, white changing to pale lavender above midpoint, nested with upper stamens, easily detached, unequally forked at tip with the first fork scarcely visible. **Fruits:** nutlets, to 4, on stalk 1 mm long with a pair of nutlets at top of stalk, nutlets subspheroid, ca. 1.3 mm, brown, when immature green covered by crowded bumps (tubercles) when dry the tubercles collapsed like tiny projections; calyx pinched close concealing nutlets.

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