

Vascular Plants of Williamson County

Hedeoma acinoides – ANNUAL PENNYROYAL, MOCK PENNYROYAL, SLENDER HEDEOMA
[Lamiaceae]

Hedeoma acinoides Scheele, ANNUAL PENNYROYAL, MOCK PENNYROYAL, SLENDER HEDEOMA. Annual, taprooted, not rosetted, 1–several-stemmed at base, with short ascending lateral branches with a terminal inflorescence, ascending to erect, 10–20 mm long; shoots with only cauline leaves, with short nonglandular hairs and scattered, sessile glandular hairs with colorless heads. **Stems:** ± 4-sided, to 1.5 mm diameter, tough, green or reddish purple, internodes to 40 mm long, short hairs arching downward. **Leaves:** opposite decussate, simple, petiolate, without stipules; petiole channeled or hemi-cylindric, 1–5 mm long, short-hairy; blade, narrowly ovate to elliptic, 14–23 × 5–10 mm, tapered at base, inconspicuously low-toothed to subentire on margins, the margins slightly inrolled under, obtuse at tip, pinnately veined with principal veins sunken on upper surface and raised on lower surface, upper surface green and glabrous, lower surface with short hairs along principal veins and scattered glandular hairs. **Inflorescence:** leafy panicle of condensed cymes, terminal on main shoot and lateral shoots, cyme 3+-flowered, with only 1 flower open per day, bracteate, short-hairy and gland-dotted; bracts subtending panicle 2, opposite, leaflike and subsessile, decreasing upward, puberulent on margins and along principal veins, with glandular hairs on lower surface; bractlet subtending pedicel linear-lanceolate, to 3 × 0.4 mm decreasing upward, entire, with short hairs and sessile glandular hairs; pedicel at anthesis ± 3 mm long, short-hairy with downward arching hairs. **Flower:** bisexual, bilateral, 3–3.5 mm across; **calyx** 5-lobed, at anthesis 5.5–6 mm long, green, conspicuously 10-ribbed, with upward arching short hairs along ribs and sessile glandular hairs between ribs; tube distinctly saclike at base, somewhat sinusoidal and narrowing from inflated base to near orifice, at orifice with a dense ring of stiff white hairs ca. 1 mm long concealing developing corolla; lobes narrowly acuminate, 1.2–1.6 × 0.4 mm, curved toward upper side, pink at tips, short-hairy on outer surface; **corolla** 2-lipped, 4-lobed; tube slender-cylindric finely ribbed, 5–6 × 0.2 mm, white, expanded around ovary, slightly expanded at top indistinct from throat, sparsely short-hairy; throat narrowly funnel-shaped, ca. 3 mm long and 0.7 mm wide at orifice, lavender, puberulent on both surfaces; upper lip ± 4 × 4.5 mm, short-hairy on lower surface, 1-lobed, ± ascending, broadly elliptic to oblong-obovate minutely notched at tip, ± 2.5 × 1.3 mm, lavender lacking darker spots; lower limb 3-lobed, ± descending, ca. 4 × 4.5 mm, pale lavender, center lobe cordate at tip, with 1 spot or a pair of spots at base rose-red to light pink-purple, lateral lobes crescent-shaped, ca. 1.5 mm, center of limb before center lobe white with a crescent-shaped mark or set of 3 spots rose-red to light pink-purple; **stamens** 2, attached above corolla tube decumbent from filaments; filaments exerted, straight, 2.5–3 mm long from midthroat, initially colorless aging pale pink-lavender, glabrous; anthers with linear sacs, dorsifixed, dithecal, 0.45–0.5 mm long, lavender, longitudinally and downward dehiscent; pollen colorless; **nectary disc** beneath pistil, 0.3 mm long, green; **pistil** 1; ovary superior, deeply 4-lobed, lobes ovoid, 0.3 × 0.3 mm, light green, each lobe with 1 ovule; style arising between lobes at base (gynobasic), 9–10 mm long, lower portion colorless, exerted 2 mm curved upward but hooked downward toward anthers approaching tip, glabrous, tapered to stigma, stigma next to anthers, pale purple approaching darker stigma. **Fruits:** nutlets,

1–4, ± ellipsoid, ca. 0.8×0.4 mm, light brown and somewhat glaucous, rounded on top with scar at other end, glabrous, finely textured and cobblestonelike (domed cells) drying collapsed.

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