

## Vascular Plants of Williamson County

*Vicia ludoviciana* subsp. *leavenworthii* – LEAVENWORTH VETCH, DEERPEA VETCH  
[Fabaceae]

*Vicia ludoviciana* Torrey & A. Gray subsp. *leavenworthii* (Torrey & A. Gray) Lasset. & C. R. Gunn, LEAVENWORTH VETCH, DEERPEA VETCH. Annual vine, taprooted, with tendrils, several-stemmed at base, branched, sprawling and climbing over other plants; shoots somewhat 2-dimensional (plagiotropic) or not, short-villous (villous); tendril = terminal portion of blade, unbranched to unequally 3-branched, the branches modified leaflets; roots nodulated. **Stems:** 3–5-angled, in range < 2 mm diameter, with 3 ridges descending from petiole midvein and stipules, flexible, internodes < 30 mm long, green or ridges purplish. **Leaves:** helically alternate, 1-pinnately compound with (4–)8–16 alternate and subopposite leaflets, short-petiolate, with stipules; stipules 2, ± equal in a pair, spreading, 2-lobed, asymmetric, linear-lanceolate to linear (lanceolate) commonly with an outpointing, ⊥ basal lobe, 1.4–3.5 × 0.5–0.7 mm and basal lobe < 1 mm long, green with red-purple, soft-hairy to glabrescent; petiole slightly channeled, 1.5–3.5(–5) mm long, often red-purple, soft-hairy; rachis shallowly channeled with leaflets attached to the edges of channel, to 40 mm long below tendril, green but red-purple where leaflets attached, short-villous; petiolules to 0.6 mm long, pale green (whitish), sparsely hairy; blades of leaflets elliptic or oblong to ovate (obovate), 7–11 × 2.5–5.5 mm, tapered at base, entire, rounded (obtus) with short point at tip, pinnately veined with midrib slightly raised on lower surface, dull green, in range surface soft-hairy; tendril shallowly channeled at base to nearly cylindrical approaching tip, principal axis to 30 mm long, sometimes pinkish. **Inflorescence:** 2–5-flowered raceme, axillary, in range no more than midpoint on the adjacent leaf, lacking bracts, soft-hairy and green tissue with minute glandular hairs; peduncle ca. 4-ridged, at anthesis 6–25 mm long increasing some in fruit, green with purplish ridges, flexible, short-strigose; rachis short extending beyond last flower by 1.5–2 mm; pedicel 0.5–1 mm long, with decurrent base along rachis. **Flower:** bisexual, bilateral, pealike (papilionaceous), 1–1.5 mm across, 5 mm long; **calyx** 5-lobed, 3.5–4 mm long, short-villous with minute glandular hairs; tube bell-shaped compressed side-to-side, ± 1.5 mm long, green and reddish, not inflated or pouched; lobes unequal, linear to narrowly triangular flared at base, 1.1–2.3 mm long, the lower lobe longer; **petals** 5, banner strongly folded over flower, not clawed, obovate and shallowly 2-lobed, ca. 5 × 4 mm, light violet at base and above midpoint with white between with ascending darker veins; wings 2, adherent to keel, clawed, claws linear, 1 mm long, white, lobe oblong-obovate, ca. 4 × 1.3 mm, toothed at base, the tooth basally pointed on upper edge of wings ca. 0.6 mm long, white; keel of 2 petals fused base nearly to tip, curved upward, white with dark purple blotches on exposed portion, notched at tip; **stamens** 10, diadelphous (9 filaments fused and 1 free); filament sheet 2.8–3.1 mm long, whitish, free portions ca. 1 mm long, white, arching upward 90°, the free filament flat and flared tapered from broad base; anthers dorsifixed, dithecal, of 2 sizes, 0.25–0.3 mm long and 0.4 mm long, orange-yellow, longitudinally dehiscent; pollen pale orange-yellow; **pistil** 1, with short stalk (stipe); ovary superior, elliptic compressed side-to-side, ca. 2.5 × 0.7 mm, green, glabrous, 1-chambered with to 7 ovules attached to upper side; style to 1.5 mm long, bent sharply (90°) at base, white above bend, short-hairy on 0.5 mm of style and tip; stigma minute-

capitate. **Fruit:** pod (legume), dehiscent, 2-valved, 6–7-seeded, ± oblong slightly compressed side-to-side, 18–22 × 4 mm, tapered at base, prowlike and short-beaked at tip, not veiny, not bulging at seeds, glaucous brown with purple blotches. **Seed:** subspheroid, 2–2.4 × 1.8–2 mm, dull olive to dark olive-brown with black spots and blotches, having hard seed coat; hilum 1–1.5 × 0.25 mm, brown.

A. C. Gibson