**Vascular Plants of Williamson County**

*Pediomelum latestipulatum* var. *appressum* – **BROAD-STIPULE SCURFPEA** [Fabaceae]

*Pediomelum latestipulatum* (Shinn.) Mahler var. *appressum* (Ockendon) L. E. Brown, BROAD-STIPULE SCURFPEA. Perennial herb, tuberous-rooted, not rosetted, 1-stemmed at base, initially unbranched later with 1−2 lateral branches, ascending to erect, to 35 cm tall; shoots with cauline leaves, at flowering foliage only above midplant, strigose with upward-pointing hairs, foliage gland-dotted and somewhat odorous when crushed. **Stems:** cylindric, to 3 mm diameter, tough, aboveground green or tinged reddish approaching canopy leaves and strigose, belowground glabrous with several sheathing prophylls, the prophylls < 10 mm long, each resembling a pair of fused stipules. **Leaves:** helically alternate, palmately compound with 5(7) leaflets, long-petiolate with pulvinus, with stipules; stipules 2, attached to stem node and base of petiole fused at base, 10−11 mm long, lobes acute-ovate, 2−3 mm long, short-ciliate on margins, gland-dotted above lobe midblade, parallel-veined; petiole ascending, 35−50+ mm long, tough, pulvinus small at base, inconspicuously striped, strigose; petiolule pulvinuslike, 1−1.5 mm long; blades of leaflets oblanceolate, 20−35 × 8−12 mm, < petiole, the central leaflet the longest, long-tapered at base, entire, rounded to obtuse at tip, pinnately veined, upper surface ± glabrous, lower surface strigose with upward-pointing hairs, finely gland-dotted. **Inflorescence:** raceme, axillary and terminal, ca. 20-flowered, flowers mostly 2−3 per node, clusters helically alternate, bracteate, strigose; peduncle < 20 mm long, green and purple-red striped beneath upward-pointing hairs; rachis somewhat zigzagged, with purple-red stripes and having ridges descending from bractlets; bractlet acuminate-ovate, at base 8.5−9 × 4−4.3 mm decreasing upward, purplish at base and on margins below midpoint, ciliate on margins, strigose along midvein on lower surface, gland-dotted, ± persistent; pedicel 2−3 mm long, strigose. **Flower:** bisexual, bilateral, pealike (papilionaceous). 6−8 mm across, 17−20 mm long; **calyx** 5-lobed, tube expanded and saclike on upper side, conspicuously gland-dotted; tube compressed side-to-side, 5.5−6 × ±6 mm but eccentric with longer upper side, purple with some green, with raised vein to each lobe, ± strigose, inner surface glabrous; lobes of 2 upper, 2 lateral, and 1 lower, upper lobes subequal, 7.5−8 × 2 mm, lower lobe 9.5−10 × ± 2.8 mm, lobes green, stiff-ciliate, lower lobe strigose along midvein, inner surfaces short-strigose; **petals** 5, clawed, glabrous; banner curved upward into saclike calyx tube, 20−21 mm long, claw inrolled and white expanding to base of 2 white, backwarc-pointing lateral lobes 9 mm from base, lateral lobes 2−2.5 mm long and dimpled, limb folded along midline, folded side ca. 4.5 mm wide, light purple to purple; wings 2, claw straight and linear, ca. 8.5 × 0.6−0.7 mm, white, base of limb with lobe 2−2.5 mm long, lobe and adjacent limb tissue white, limb oblong and rounded at tip, 8.5 × 3 mm, intense purple, with wrinkles; keel of 2 limbs fused above claws, 15 mm long, ≤ wings and not fused with wings, claw ca. 8.5 × 0.6 mm, canoe-shaped limbs ca. 7 mm long, fused on lower edge from midpoint to tip, 3.5 mm wide, with a pair of small, backward-pointing, pale purple lobes at base, white tissue at base to intense purple and purple with lighter margins; **stamens** 10, diadelphous (9 fused + 1 free); filament of free stamen 13−13.5 mm long, white, filament sheet arched above base but straight above, fused nearly to expanded tip within keel, free portions triangular alternately long (1 mm) and short (0.5 mm), cream-colored; anthers dorsifixed, dithecal, ± 0.5 mm long., dull yellow-orange, longitudinally
dehiscent; pollen white; **nectary disc** oblique surrounding stalk of pistil (within stamens), longer on lower side (0.6 mm to 0.3 mm on upper side, producing thin nectar; **pistil** 1, ca. 15 mm long, with stalk (stipe) ca. 1 mm long; ovary superior, ovoid compressed side-to-side, ca. 2 × 0.9 mm, green, at anthesis not appearing gland-dotted, 1-chambered with 1 ovule; style tapered from ovary and broadly hooked approaching tip, green with glands forming near base to white above without glands, occasionally with several strigose hairs on green lower side; stigma terminat, minute. **Fruit:** pod (legume), erect within calyx, 1-seeded, with thin, papery wall breaking irregularly at midpoint of seed, lower portion broadly elliptic compressed side-to-side and upper portion inversely narrowly funnel-shaped curved at tip and strongly compressed side-to-side, ca. 9 mm long, straw-colored conspicuously dotted with red glands, seed chamber 4 mm wide and elliptic in ×-section, breaking horizontally 2 mm from base, base remaining on short stalk; persistent calyx leathery, 12–13 mm long, light brown dotted with red glands, lobes stiff-ciliate. **Seed:** ± oval in outline, ca. 4 × 3 × 2.5 mm, dark green with light brown bump and patch near hilum, seed coat hard; hilum close to end of seed.

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