## Vascular Plants of Williamson County <br> Galactia regularis - DOWNY MILKPEA [Fabaceae]

Galactia regularis (L.) Britt., Stearns, \& Poggenb., DOWNY mILKPEA. Perennial vine, twining, taprooted with slender, branched caudex, not rosetted, several-stemmed at base, trailing over ground and neighboring vegetation; shoots with only cauline leaves, foliage on long, flexible branches having internode > leaf, suedelike with soft hairs on all structures. Stems: cylindric, to 2 mm diameter, tough, internodes to 85 mm long, soft short-hairy, aging purplish red on lower stems. Leaves: helically alternate, pinnately 3foliolate, petiolate with pulvinus, with stipules; stipules 2, on swelling below pulvinus, acuminate, $1-2.4 \mathrm{~mm}$ long, green often aging red, short-hairy; petiole pulvinus $2-2.5 \mathrm{~mm}$ long, green, above pulvinus shallowly channeled, to 25 mm long, tough, green, short-hairy, lacking gland at top; rachis not channeled, to 8 mm long; stipel subtending petiolule on upper side 1 and 2 (terminal leaflet), fingerlike, $0.3-0.5 \mathrm{~mm}$, green, short-hairy; petiolule pulvinus 1.5-1.8 mm long, short-hairy; blades of leaflets broadly elliptic to roundish ovate, $17-50 \times 9-34 \mathrm{~mm}$, terminal > lateral, subcordate at base, entire, short-notched with short point (extension of midrib) at tip, pinnately veined with principal veins somewhat raised on lower surface, upper surface short-villous, lower surface paler, short-villous and villous with long hairs to 0.8 mm long and somewhat appressed. Inflorescence: racemes, axillary, 2 -several of different ages, the initial raceme ascending or widely spreading, to 140 mm long and > leaf, especially lower nodes with 2-3 flowers of different ages, often just 1 flower open on raceme per day, bracteate, soft short-hairy; peduncle pulvinus ca. 1 mm long axis above pulvinus cylindric, green, with the lowest node to 65 mm , short-hairy with downward-pointing hairs; bractlet subtending pedicel triangular, 1 mm long; pedicel cylindric, $2-3.5 \mathrm{~mm}$ long not increasing in fruit, green, short-hairy, with a pair of opposite bracteoles at top, bracteole ovate, 1 mm long, green, raised on midvein, short-hairy. Flower: bisexual, bilateral, pealike (papilionaceous), ca. 4 mm across; receptacle producing nectar surrounding pistil; calyx 4-lobed, ca. 5.5 mm long, green, soft short-hairy on outer surface; tube funnel-shaped, ca. 2.5 mm long; lobes unequal, upper lobe triangular-ovate, ca. $3 \times 1.5 \mathrm{~mm}$, pinched at tip, lateral 1 lobes triangular, ca. $2.5 \times 1 \mathrm{~mm}$, half next to keel lacking hairs, lower lobe triangular, ca. $3 \times 1 \mathrm{~mm}$, rounded on back, inner surface of lobes with appressed minute hairs; petals $5, \pm 8 \mathrm{~mm}$ long, clawed; banner claw wedge-shaped, $1 \times 0.7 \mathrm{~mm}$, reddish, limb obovate, $\pm 7 \times 4 \mathrm{~mm}$, pink and light pink-purple, truncate at base; wings 2 , claws slender, ca. 2.2 mm long, white, limbs obovate, $5.5-6 \times 2$ mm , light pink-purple with minute purple-red dots, having white, backward-pointing basal lobe; keels of 2 petals partially fused from limb midpoint on lower edge to near tip, claws slender, ca. 2 mm long, white, limbs hatchet-shaped, white to midpoint to light pink-purple at tip; stamens 10, diadelphous ( 9 fused and 1 free), included in keel; filament sheet ca. 4.5 mm long, white, free portions alternating 2 and 2.5 mm long, white; anthers dorsifixed, dithecal, $0.6-0.65 \mathrm{~mm}$ long, light yellow, longitudinally dehiscent; pollen pale light yellow; pistil 1, 7.5-8 mm long, included in keel; ovary superior, oblanceolate-linear flattened side-to-side, ca. $4 \times 0.5 \mathrm{~mm}$, green, densely covered with soft, straight, upwardpointing short-hairs, 1 -chambered with to 7 ovules attached to upper side; style shallowly curved upward, light green, with minute terminal stigma. Fruit: pod (legume), dehiscent by 2 valves, in range mostly $3-5$-seeded, $\pm$ cylindric and straight slightly bulging at seeds,
in range 22-36 $\times 4-5.2 \mathrm{~mm}$, short-hairy with hairs of various lengths. Seed: broadly ellipsoid to somewhat kidney-shaped, $3-3.6 \times 2.3-2.7 \mathrm{~mm}$, mottled dark brown and light brown, solid dark brown around median hilum, seed coat hard and smooth.
A. C. Gibson

