

Vascular Plants of Williamson County

Anemone berlandieri – TENPETAL ANEMONE [Ranunculaceae]

Anemone berlandieri Pritzl, TENPETAL ANEMONE. Perennial herb, from a vertical tuber, ± taprooted below tuber, rosetted (often not appearing so), 1-stemmed, with ascending to erect, axillary inflorescences, in flower to 16 cm tall increasing to 42 cm long in fruit; shoot with only basal leaves, basal leaves 1–12, exposed leaves and axes ± villous to pilose aging somewhat hispid; tubers to 25 × 12 mm, solid. **Stem:** aboveground short and hidden by leaf bases at top of tuber. **Leaves:** helically alternate, 1(–2)- palmately compound, 3-foliolate or deeply 3-lobed but on well-watered and robust individuals occasionally twice 3-foliolate with subdivision of terminal leaflet (to 12 blade portions), to 120 mm long, petiolate, without stipules; petiole flattened and white at base and channeled above, to 75 mm long, green and purplish red, villous-hispid; blade rachis to 25 mm long, channeled, often purplish red; petiolule of primary leaflets to 30 mm long and channeled but small leaflets sometimes sessile; blade < petiole, ± ovate in outline, to 45 × 40 mm, of primary leaflets symmetric (terminal leaflet) and asymmetric (lateral leaflets), to 22 mm long, tapered at base, serrate-crenate or with shallow lobes on margins mostly above midpoint, of secondary leaflets lobes mostly oblanceolate with or without a tooth, with several veins radiating from base and principal veins somewhat raised on lower surface, sparsely pilose, lower surface often purple. **Inflorescence:** solitary axillary flowers appearing scapose, 1–several per plant but not from the lowermost basal leaves, bracteate, villous; peduncle cylindrical, at anthesis mostly 70–150 mm long (including belowground portion) increasing 2× in fruit, tough, white belowground and purple aboveground and villous; **involucre** of 3 bracts (bractlets) subtending pedicel slightly overlapping at base, each bract deeply palmately 3-lobed from at or below midpoint, appearing sheathing, at anthesis 13–20 mm long increasing to 30 mm long and often spreading in fruit, bract (3)5-veined at base, narrowly wedge-shaped in outline, lower portion to 7 mm wide, lobes ascending and each often deeply 3-lobed, lobes and sublobes ± linear, to 1 mm wide with entire margins; ± appressed-villous with hairs to 1 mm long and lobes with hairs on both surfaces; pedicel cylindrical, at anthesis 7–30+ mm long increasing greatly in fruit to 120+ mm, green, appressed-villous, pith aging hollow. **Flower:** bisexual, radial, (13–)23–30 mm across; receptacle elongate (torus) and at anthesis ellipsoid and short-hairy; lacking nectar; **sepals** in range 11–17, helically alternate in at least 2 series, spreading widely, narrowly oblong to linear-elliptic, 7–15+ × 2–3.8 mm, outer series generally wider, white to pale, light, and dark violet to violet-blue within each population, upper surface with darker pigment, entire, ± truncate or inconspicuously notched at tip, mostly 5-veined from base, upper surface appressed short-hairy, lower surface glabrous or with some hairs at base; **petals** absent; **stamens** 25–70 in several series, helically alternate, free; filaments unequal, (0.4–)1.5–4.5 mm long, pale yellow, glabrous; anthers basifixed, dithecal, 0.7–0.9 mm long, light yellow, longitudinally dehiscent, the longer stamens dehiscent first; pollen white; **pistils** mostly 200+, helically alternate, free; ovaries superior, elliptic in outline compressed front-to-back, 1–1.4 mm long, green, densely short-hairy with appressed hairs, 1-chambered with 1 ovule; style curved outward, 0.4–0.6 mm long, white aging red in fruit; stigma white, minutely papillate. **Fruits:** achenes, many, helically arranged, formed in an aggregate cylindrical head, cylinder 20–40 × 6–8 mm, with 300+ helically alternate,

hairy achenes sessile on slender torus, achenes becoming wind-dispersed when mature; fruit body vertically oriented, flat-round, ca. 2.5×2 mm, brown, with a tuft of 100+ soft hairs radiating from base, the hairs 3–4 mm long, flat side with shorter, scattered hairs, and along top having an appressed beak (style) also with soft hairs.

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