Vascular Plants of Williamson County Passiflora incarnata – MAY POPS PASSIONFLOWER, APRICOTVINE [Passifloraceae]

Passiflora incarnata L., MAY POPS PASSIONFLOWER, APRICOTVINE. Perennial vine, with tendrils, trailing and climbing on low vegetation or supports; tendril 1 from axillary bud, to 130 mm long, coiled with to 15 coils around support. Stems: ridged, to 5 mm diameter with 3 ridges descending from each leaf, tough, somewhat zigzagged, short-hairy with arching hairs. Leaves: helically alternate, palmately lobed mostly with deep sinuses (unlobed), petiolate, with stipules; stipules 2, attached to base of petiole, fingerlike to awlshaped, 1.5–4 mm long, green, with fleshy axis and several short glandular teeth on margins at or below midpoint, sparsely short-hairy, the teeth \pm spheroid; petiole narrowly and shallowly channeled, to 35 mm long, with 2 conspicuous sessile glands (extrafloral nectaries) at or above midpoint, the glands ca. $1.5-2 \times 1.5-2$ mm, green glabrous on top and short-pubescent on lower side, wet when secreting nectar; blade to 155 \times 180 mm, lobes acute-ovate, to 110 \times 50 mm, initially with glandular teeth on margins, conspicuously 3-veined at base with each lobe pinnately veined having a principal midvein, principal veins slightly raised on upper surface and raised on lower surface. **Inflorescence:** solitary flower, axillary, bracteate; pedicel (peduncle) cylindric, to 45 mm long, green; bractlets (bracteoles) 3 in whorl 4–5 mm below flower, 4–6 mm increasing in fruit, with petiole 1 mm long, blade \pm deltate to ovate with 2–4 glandular teeth per bractlet, margins wavy to crisped, acuminate at tip. Flower: bisexual, radial, in range 55–65 mm across; hypanthium bowl-shaped, ca. 2 mm deep, green on outer surface indistinct from calyx, indented around pedicel, thick-walled, internally with a white lip protruded as a nectar chamber; nectary troughlike, at anthesis filled with thin nectar; calyx 5-lobed, arising from hypanthium rim, fused at base < 1 mm, green; lobes not overlapping, strapshaped to oblong slightly cupped upward, $23-29 \times 6-9.5$ mm, green but spongy and whitish on inner surface, short-hairy on green tissue, somewhat hooded to rounded at tip with subterminal tip arched and fingerlike, 2.5–5.3 mm long, having overlapped, membranous and whitish margins, with scattered arching short hairs; corolla arising on hypanthium surface, of 5 petals and several successive whorls of many filaments (outer and inner corona); **petals** 5, widely spreading, acute-oblong, $\pm 20-25 \times 4-5$ mm (2 mm wide at base), < calyx lobes, cream-white or tinged purplish, delicate and thin; outer corona in 2 series, 15–20 mm long, purple or white at base, the second whorl conspicuously compressed side-to-side), axes not uniform with deep purple and lighter patches, sometimes purple becoming whitish at tips, somewhat crimped and not straight especially above midpoint, inner corona of ca. 6 whorls and curtainlike, the outermost ca. 3 mm long and purple-red, intermediate whorls to 2.7 mm long, white with upper portion reddish or purple, the innermost series fused to base of column, 1–1.5 mm long, pale purple to whitish and often appearing crestlike; stamens 5, arising as a cover on central column fused to stalk beneath pistil (androgynophore) and forming inner wall of nectar chamber, fused portion widely flared at base and above columnar, 5–10 mm long, whitish base-to-tip or whitish at base to yellow-green above midpoint with scattered purple specks, glabrous; filaments initially ascending later spreading, ca. 6 mm long, light green or also with tiny purple specks, appearing truncate below anther, sometimes filaments fused in pairs (having 2 anthers), flattened front-to-back and 1.1–1.6 mm wide at midpoint (wider if pair fused);

anthers exserted, versatile, dithecal, $10.5-12 \times 3.5$ mm, pale light yellow, longitudinally and downward dehiscent; pollen light yellow; **pistil** 1, stalked, at anthesis stalk above staminal column 1–1.5 mm long increasing to 3.5 mm in fruit, pale green; ovary superior, \pm ellipsoid to slightly ovoid wider below midpoint, ca. $4-6 \times 2-4$ mm, green, low-5-ribbed densely short-tomentose (short-tomentose along ribs), not glaucous, 1-chambered with many ovules attached to 3 long placentae on wall (parietal); style 3-branched, base ca. 0.5 mm long, the branches suberect to spreading, flattened, 8–13 mm long, yellowish green yo greenish and whitish, flaring to an expanded, capitate stigma, glabrous; stigma appearing broadly heart-shaped in face view. Fruit: berry, to 50-seeded, elliptic-ovoid, mostly $50-60 \times 35-43$ mm, initially mottled green when ripe orangish, with several faint line, suedelike with soft short-hairs; exocarp thin and cartilaginous; mesocarp spongy, to 10 mm wide, white; endocarp baglike with hollow chamber, to 35 mm across, with ridges opposite placentae, seeds parietal; stalk below fruit and above calyx (stipe or gynophore) ca. 15×3 mm, mostly covered by tissue of staminal column fused to stipe and speckled. Seed: enclosed by baglike aril, the aril ovoid, mostly $13-15 \times 6.5-7.5 \times 5-5.5$ mm, white aging orange-red and drying papery, auriculate at base (partially concealing funiculus), fleshy and acidic; seed ellipsoid to somewhat obovoid compressed side-to-side, $6-8 \times 3.6-5 \times$ 1.4–2.5 mm, pale vellow (tan) drying light brown, with a network of wide and shallow pits. A. C. Gibson