

Vascular Plants of Williamson County

Xanthisma texanum subsp. *drummondii* – TEXAS SLEEPYDAISY [Asteraceae]

Xanthisma texanum DC. subsp. *drummondii* (Torrey & A. Gray) Semple, TEXAS SLEEPYDAISY. Annual, taprooted, not rosetted, 1–3-stemmed at base, with ascending lateral branches in canopy, erect to suberect, in range 20–45 cm tall; shoots with few basal leaves and many cauline leaves, leaves > internode, basal leaves absent at flowering, foliage lacking nonglandular and glandular hairs. **Stems:** cylindric, to 3 mm diameter, tough, tannish mottled with green including a thin green stripe descending from each leaf, with strips and patches of puberulent hairs; pith solid. **Leaves:** helically alternate, simple and sessile, smaller canopy leaves slightly clasping at base, without stipules; blade narrowly elliptic to lanceolate or linear-lanceolate to spatulate (lower leaves), (15–)20–50(–80, lower leaves) × 3–7 mm, long-tapered at base, toothed (pinnately dissected, lower leaves) to remotely several-toothed to entire (canopy leaves), acute with colorless point at tip at tip, the point < 1 mm long and colorless, 1-veined with midrib raised on lower surface. **Inflorescence:** head, solitary and terminal on leafy shoot, radiate, 40–45 mm across, in range with ± 13–24 pistillate ray flowers and 50+ bisexual disc flowers, bracteate, glabrous; peduncle indistinct from shoot, with several leaflike bracts along axis, axis ridged and short-hirsute; **involucre** ± hemispheroid to short bell-shaped, mostly 10–14 mm across, green, not resinous and appearing glabrous, phyllaries 25–30 in 3–5 series firmly attached, outer series of 5–6 phyllaries 7–8 × 2–2.5 mm, intermediate series with ca. 15 phyllaries to 12 × 4 mm, the innermost series with 8 phyllaries ca. 8 mm long, of each phyllary lower portion (below midpoint) rectangular, glossy and mostly green with white, 3–5-veined at base, upper portion mostly ovate and acute to acuminate at tip, green with colorless margins and tip having midvein and elaborate minor veins and inner (upper) surface often inconspicuously short-hairy, green phyllaries often minutely ciliate on margins above midpoint, the innermost phyllaries subtending ray flowers, acute-oblong, mostly colorless above midpoint with minutely jagged margins; receptacle slightly convex to nearly flat, lacking bractlets (paleae), pitted with and bristles crownlike surrounding each disc ovary, scales acuminate and 1–2 mm long and fused at base, white, glabrous. **Ray flower:** bilateral, 2.5–2.8 mm across; **calyx (pappus)** ca. 20 in to 4 series, mostly scalelike, narrowly acuminate bristles and several capillary bristles, 1–3 mm long, minutely barbed; **corolla** with minute notch at tip, to 20 mm long, lacking hairs; tube flattened front-to-back, ± 3 mm long, whitish at base to yellow at top; limb mostly narrowly elliptic, in range 5–16 × 3–4 mm, bright yellow (pale yellow on lower surface), parallel-veined, narrow at tip, lacking hairs; **stamens** absent; **pistil** 1; ovary inferior, ± 3-angled and conspicuously ribbed, ca. 2 mm long, green, short-hairy with ascending straight hairs along ribs and edges, 1-chambered with 1 ovule; **nectary disc** surrounding base of style weakly developed around base of style, 0.15 mm long, colorless; style ca. 3.5 mm long, exposed at orifice but not exerted, 2-branched from midpoint, pale at base to yellowish at top. **Disc flower:** radial, 1 mm across, ca. 6 mm long; **calyx (pappus)** ca. 20 in to 4 series, mostly capillary bristles and scalelike, narrowly acuminate bristles, 1.5–3 mm long (outer series) and 5–5.5 mm long (inner series), colorless, minutely barbed, persistent; **corolla** 5-lobed, ca. 5 mm long, lacking hairs; tube cylindric, ca. 1 × 0.25 mm, whitish, 5-veined; throat funnel-shaped (lower portion) and cylindric (upper portion),

orifice ca. 0.8 mm across, mostly colorless; lobes erect, deltate, ca. 0.5 mm long, light yellow along edges; **stamens** 5, attached at top of corolla tube; filaments 1 mm long, yellowish; anthers fused in cylinder surrounding style, basifixed, dithecal, 3 mm long including acuminate appendages 0.5 mm long, light yellow, the appendages colorless, longitudinally dehiscent; pollen light yellow; **pistil** 1, included; ovary inferior, \pm top-shaped with 2 edges and ribbed, ca. 1×0.5 mm, green, short-hairy with ascending straight hairs along ribs, 1-chambered with 1 ovule; **nectary disc** surrounding base of style weakly developed around base of style, 0.1 mm long, greenish; style ca. 3.5 mm long, 2-branched, light yellow, the stigmatic branches appressed, ca. 1.5 mm long, papillate-hairy. **Fruits:** cypselae (achenes) dimorphic, brown, with ascending short hairs along ribs and angles, of ray flowers 3-sided and ribbed, $2\text{--}2.3 \times 1.5$ mm, of disc flowers top-shaped compressed and ribbed, ca. $2 \times 1\text{--}1.3$ mm, immature ribs often purplish; pappus of several series of persistent spreading bristles, the bristles capillary to scalelike minutely barbed and whitish, of ray flowers mostly scalelike narrowly acuminate, 1–3 mm long, of disc flowers mostly capillary bristles, outer series 1.5–3 mm long, inner series 5–5.5 mm long; receptacle conspicuously convex.

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