

Laënnecia coulteri (A. Gray) G. L. Nesom, COULTER'S HORSEWEED. Annual, taprooted, rosetted, 1-stemmed at base, typically unbranched below inflorescence, erect, in range (30–)80–150 cm tall; shoots leafy throughout with basal leaves and cauline leaves, commonly with tufts of leaves on unexpanded axillary shoots above midplant, \pm villous and glandular-hairy, the nonglandular hairs soft and slightly wavy to sometimes straight or arching, the glandular hairs < 0.3 mm long and weakly capitate, somewhat viscid. **Stems:** ridged, to 5 mm diameter, with ridge descending from each cauline leaf, on wide leaves marginal veins sometimes also descending. **Leaves:** helically alternate, simple, sessile to clasping (large cauline leaves), without stipules; blade oblanceolate to spatulate, $15\text{--}43 \times 5\text{--}17$ mm, tapered and sometimes expanded into a \pm clasping base with acute lobes (auriculate), deeply serrate to dentate on margins, obtuse to rounded at tip, pinnately veined with midrib \pm sunken on upper surface and conspicuously raised on lower surface, pubescent and glandular-hairy with longer hairs along midrib. **Inflorescence:** heads, in large, terminal, paniclelike arrays, array $420\text{--}900 \times 150\text{--}220$ mm, with several–many ascending primary branches, primary branches sometimes overtopping main axis and with several subterminal and a terminal cymelike cluster, each cluster of several heads, head appearing discoid, $3.5\text{--}5$ mm across, in range with $150\text{--}200$ peripheral (ray) flowers and ca. $8\text{--}10$ disc flowers, bracteate, \pm villous to pilose and glandular-hairy; bract subtending primary branches leaflike, $15\text{--}40$ mm long; primary branches $50\text{--}130$ mm long, leafy to midbranch; bract subtending cymelike branchlet or peduncle \pm linear, $5\text{--}15$ mm long decreasing upward, entire to \pm serrate; peduncle low-ridged, $2\text{--}15$ mm long, soft-hairy and glandular-hairy, with 1–several bracts along axis, the bracts linear-lanceolate, $3\text{--}5$ mm long, potentially each later subtending a future head; **involucre** bell-shaped to bowl-shaped, at anthesis $3.5 \times 4\text{--}5$ mm becoming wider in fruit, phyllaries $40\text{--}50$ in several series, unequal, linear, $2.6\text{--}4 \times 0.3\text{--}0.5$ mm with outer phyllaries shorter, green with membranous margins and tip, fringed at acuminate tip, glandular-pubescent and short-pilose on outer surface, strongly reflexed in fruit; receptacle flat, $2.2\text{--}3$ mm diameter, without bractlets (paleae), shallowly pitted for peripheral flowers and more deeply pitted for disc flowers, with a persistent, minute pedicel (< 0.1 mm long) beneath each flower. **Peripheral flower:** pistillate, radial, ca. 0.15 mm across; **calyx (pappus)** of $13\text{--}15$ capillary bristles in 1 whorl, at anthesis $2\text{--}3$ mm long, whitish, fine; **corolla** minutely lobed, slender cylindric, $1.4\text{--}1.6 \times 0.15$ mm, whitish to pale yellowish green but darker at base, with ascending hairs at tip; **stamens** absent; **pistil** 1; ovary inferior, narrowly ovoid compressed side-to-side, ± 0.6 mm long, whitish, finely short-hairy, 1-chambered with 1 ovule; style $2.3\text{--}2.7$ mm long, exserted $1\text{--}1.3$ mm, 2-branched, the branches ascending, unequal, $0.2\text{--}0.3$ mm long. **Disc flower:** bisexual, radial, $\pm 0.8\text{--}1$ mm across, $3.5\text{--}4.5$ mm long; **calyx (pappus)** of $21\text{--}22$ capillary bristles in 1 whorl, $2.5\text{--}3.7$ mm long, whitish; **corolla** 5-lobed, $2.7\text{--}3.7$ mm long, pale to light greenish yellow, darker at base; tube + throat ± 5 -angled, pale yellow, throat inconspicuously 5-ribbed; lobes spreading, narrowly ovate, $0.5\text{--}0.8$ mm long, light greenish yellow with marginal veins, sparsely papillate-hairy on throat and lower surfaces of lobes; **stamens** 5, fused to top of corolla tube, exserted; filaments flattened and slightly tapered to tip, $0.7\text{--}1$ mm long; anthers fused into cylinder surrounding style, exserted to midpoint, basifixed, dithecal, ca. $0.6\text{--}0.8$ mm long + appendage at tip, light to moderate yellow, the appendage narrow, ± 0.2 mm long, white, longitudinally dehiscent; pollen light to bright yellow; **pistil** 1; ovary inferior, narrowly

ovoid compressed side-to-side, ± 0.6 mm long, whitish, finely short-hairy, 1-chambered with 1 ovule; style exerted beyond anthers or included, 2.7–3.2 mm long, pale to light yellowish green but yellow at tip, 2-branched, the branches narrowly club-shaped, 0.35–0.45 mm long, acute at tip, papillate-stigmatic on outer face, flat and glabrous on inner face. **Fruits:** cypselae, dimorphic; pappus of head forming a spheric mass 10–12 mm diameter; cypselae of peripheral flowers oblong-ob lanceoid compressed side-to-side, $0.8\text{--}0.95 \times 0.3\text{--}0.35$ mm with pappus of 13–15 capillary bristles 2–3.7 mm long; cypselae of disc flowers $1.1\text{--}1.2 \times 0.4\text{--}0.45$ mm with pappus of 21–22 capillary bristles 3.4–3.7 mm long; fruit body light gray-brown to tannish, veined on each margin and not veined on faces, finely puberulent with ascending hairs or with several–many sessile glandular hairs. Late May–late October.

Native. Annual rarely observed in range, found in scattered freshwater marsh or moist, disturbed areas. *Laënnecia coulteri* formerly was treated as a species of *Erigeron*. Coulter's horseweed an unbranched plant that is glandular and viscid.
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