

Baileya multiradiata Harvey & A. Gray, MANY-FLOWERED DESERT-MARIGOLD. Annual or short-lived perennial herb, taprooted, several-stemmed at base, with ascending branches, to 45 cm tall; shoots with grayish basal leaves and cauline leaves, woolly tomentose. **Stems:** cylindrical, to 2.5 mm diameter, densely tomentose. **Leaves:** helically alternate, pinnately lobed, petiolate (basal leaves) and sessile (cauline leaves), without stipules; petiole winged, typically 10–20 mm long; blade of lobed leaves (lower plant) lanceolate or narrowly ovate to oblong in outline, in range to 40 × 23 mm, to 3-lobed on each side, lobes oblanceolate to lanceolate or linear, to 11 mm long, sometimes lobes with sublobes, rounded at tip, pinnately veined with principal veins raised on lower surface, tomentose. **Inflorescence:** solitary head terminal on long peduncle, head radiate, 28–40 mm wide, with 20–30 showy ray flowers and 50–100 disc flowers, bracteate, tomentose; peduncle in range 135–210 mm long, with 2–5 bracts at base, tomentose, bract linear to narrowly oblanceolate, 15–24 × 2.3–4 mm, sessile, tomentose; **involucre** hemispheric to cup-shaped, 5–7 × 8–12 mm, of 21–34 phyllaries in 2–3 series, long-tomentose on exposed outer surfaces, outer series of ± 13 phyllaries, narrowly lanceolate, 5–6 mm long, middle series of ± 8 phyllaries, narrowly lanceolate to awl-shaped, 4.5–5.5 mm long, inner series of ± 8 phyllaries, linear, 4–5 mm long; receptacle flat, without bractlets (paleae). **Ray flower:** pistillate, 5–7 mm across; **calyx (pappus)** absent; **corolla** 3-toothed at tip, brilliant yellow; tube ca. 0.2 mm long; limb spreading becoming reflexed after pollination, narrowly obovate wedge-shaped, 15–16 mm long, truncate with short teeth at tip, 7-veined, aging papery and persistent; **pistil** 1, 7.5–8 mm long; ovary inferior, narrowly inversely conic, 3–3.5 mm long, whitish, ± 5-angled, 10–15-ribbed, glandular, 1-chambered with 1 ovule; style ± 4 mm long, dark yellow below to light yellow above, 2-branched, the branches ± 1 mm long, flat on inner face, acute at tip, glabrous. **Disc flower:** bisexual, radial, ca. 2 mm across; **calyx (pappus)** absent; **corolla** 5-toothed, narrowly funnel-shaped, 3.5–4 mm long, brilliant yellow, sparsely glandular; tube ± 1.2 mm long; throat ± 2.2 mm long; teeth (lobes) densely papillate with the longest hairs at base and the shortest on margins and at tip; **stamens** 5, fused to top of corolla tube; filaments ± 1 mm long, translucent yellow, thick and fleshy; anthers fused into cylinder surrounding style, basifixed, dithecal, ± 2 mm long, bright yellow, arrow-shaped at base, with acute appendage at tip, longitudinally and inwardly dehiscent; pollen bright yellow; **pistil** 1, 6–7 mm long; ovary inferior, narrowly inversely conic, 3–3.5 mm long, whitish, ± 5-angled, 10–15-ribbed, glandular, 1-chambered with 1 ovule; style 3.5–4 mm long, light yellow to yellowish green, with minute nectar-producing cup at base, 2-branched, the branches ca. 0.5 mm long, ± truncate or broadly and slightly conic at papillate tip. **Fruits:** cypselae, monomorphic, lacking pappus, narrowly wedge-shaped, ± 4 mm long, brown, weakly ribbed, glandular-hairy. Early November–late April.

Naturalized. Perennial herb of the Mojave Desert introduced to our area when escaped from plantings or seed mixture, observed in disturbed shrubland in Calabasas (Fall, 2005) and in a wildflower patch along a fire road in central SMM (2010). *Baileya multiradiata* in the deserts of southern California has somewhat different forms in spring versus fall, and the above description is typical of autumnal heads. Spring forms tend to have many more ray and disc flowers.

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