

Mimulus pilosus (Benth.) S. Watson, DOWNY MONKEYFLOWER. Annual, taprooted, 1–several-stemmed at base, erect to ascending, in range 2–20 cm tall; shoots villous (septate hairs) and with short-stalked glandular hairs. **Stems:** cylindrical, < 5 mm diameter, purplish red or pink aging tannish; solid. **Leaves:** opposite decussate, simple, sessile with pair fused across node, without stipules; blade oblanceolate to ovate, 16–37 × 4–7 mm, tapered at base, entire, obtuse to broadly acute at tip, obscurely pinnately veined with 1 vein at base, villous and with short glandular hairs. **Inflorescence:** flowers solitary and axillary (2 per node), the entire plant = a leafy raceme or panicle of racemes, bracteate, with short glandular hairs; bracts leaflike, sessile but pair generally not fused across node (fused at lower nodes), oblanceolate to elliptic or oblong to ovate, 5–33 × 3–9 mm, tapered at base, rounded to acute at tip; pedicel at anthesis 5–8.5 mm long increasing to 30 mm in fruit, purplish pink, villous and with stalked glandular hairs. **Flower:** bisexual, bilateral, 3–4.7 mm wide, 3–4 mm tall, bright yellow; **calyx** 5-lobed (if 6–7-lobed, with smaller intervening lobes), tubular, ± ovoid, 5.5–7 × 2.7–4 mm, externally villous and with stalked glandular hairs, internally with stalked glandular hairs, slightly expanded around fruit; tube oblique, 2.3–4.5 mm long, the shortest on lower side, broadly ribbed, green but paler between ribs; lobes unequal, erect, acute, the upper lobe 1.8–2 mm long, other lobes 1.2–1.8 mm long; **corolla** 2-lipped, 5-lobed, 7–8 mm long, vivid yellow; tube + throat funnel-shaped, 6.2–6.8 mm long, 1.5–1.6 mm wide at base, constricted to 1–1.2 mm above ovary and expanding to 2.3–3 mm wide at orifice, externally sparsely glandular-hairy and slightly ridged on upper side, internally 2-ridged on lower side and with a series of (3–7) purplish red dots or dashes along 2/3 of each rib approaching lip and terminating in a large, often irregular dot at orifice (generally extending to base of central lobe of lower lip), with some slender, club-shaped hairs on each ridge near orifice; upper lip 2-lobed, 1.3–1.8 × 2.8–3.7 mm, lobes arching upward, rounded-obovate, 1.3–1.7 × 1.2–1.8 mm, glabrous on upper surface, sparsely and minutely stalked glandular-hairy on lower surface; lower lip 3-lobed, 0.8–1.4 × 3.6–4.7 mm (including lobes), lobes rounded-obovate, lateral lobes arching outward, 0.7–1.4 × 1.2–1.8 mm, central lobe arching downward, 0.8–1.8 × 1.3–1.5, generally with a portion of a large, often irregular, purplish red dot from the top of the throat, rounded to cleft on outer margin, glabrous on upper surface; **stamens** 4, lacking staminode, fused to base of corolla throat, dimorphic, filaments of 2 different lengths; filaments 2.8–3.2 mm long and pilose at base (lower stamens) and 1.4–1.8 mm long and glabrous (upper stamens), light yellow; anthers included, dorsifixed, dithecal, with divergent anthers and a prominent connective, 0.3–0.4 mm long, sacs yellow, glabrous; longitudinally dehiscent; pollen light yellow; **nectary disc** ± surrounding base of pistil but commonly more developed on lower side, fleshy, < 0.2 mm tall, green; **pistil** 1, 5–5.7 mm long; ovary superior, ± ellipsoid, 2.3–2.5 × 1–1.2 mm, green, with minute, stalked glandular hairs, 2-chambered, each chamber with many ovules attached to 2 intrusive (axile) placentae; style cylindrical, 2.2–2.7 mm long, puberulent and stalked glandular-hairy; stigma 1-lobed or unequally 2-lobed, the larger lobe ovate, 1–1.5 × 0.5–0.6 mm, flat, minutely papillate hairy, the smaller lobe reduced to a small tooth ± 0.1 mm long or absent. **Fruit:** capsule, loculicidal, many-seeded, ovoid, 4–7 × 2.3–2.5 mm, light brown, shallowly grooved along septum, faintly ridged along line of dehiscence, acute at tip, with stalked glandular hairs. **Seed:** ovoid to semi-ovoid and wedge-shape in ×-section, ± 0.4 ×

0.2 mm, cinnamon to almond brown, with transparent, spikelike projections. Mid-April–late May.

Native. Annual known from several sites in SMM. *Mimulus pilosus* has, for the genus, comparatively small yellow flowers, similar to *M. floribundus*, which is more common and has slimy foliage due to its silky hairs.

B. A. Prigge & A. C. Gibson