

***Papaver heterophyllum*** (Benth.) Greene, WIND POPPY. Annual, taprooted, mostly 1-stemmed at base, branching from top downward with each branch having a terminal flower, 30–60 cm tall; shoots with basal leaves (withered before flowering) and cauline leaves, glaucous, nearly glabrous but sparsely pilose-villous on some leaves; latex clear yellow. **Stem:** cylindric, to 3.5 mm diameter, glabrous. **Leaves:** helically alternate, pinnately lobed with 2–6 lateral lobes, petiolate (lower leaves) and sessile (upper cauline leaves), without stipules; petiole winged, to 60 mm long, 1.5–5 mm wide at base, 1.1–4.5 mm wide below blade, with wings forming a V at base but flat and widely spreading below blade, often with some hairs on margins; blade oblong to ovate in outline, to 100 mm long, midrib with wings to 2 mm wide, lateral lobes subopposite, obovate to oblanceolate or linear, 3.6–16 × 0.7–7 mm, tapered to narrowly tapered at base, entire, rounded to acute at tip, terminal lobe often 3-lobed but unlobed on upper cauline leaves, 6–20 × 1–15 mm, pinnately veined with midrib conspicuously raised on lower side, sparsely pilose on margins near base and along midrib on lower surface. **Inflorescence:** leafy cyme, terminal, 1–4-flowered, appearing like a solitary flower until the second flowering branch forms from a lower node, bracteate, glabrous; bract leaflike but sessile and with linear lobes, < 20 mm long; pedicel 85–245 mm long, glaucous. **Flower:** bisexual, radial, 12–20 mm across, ± rotate; bud narrowly ellipsoid, ca. 8 × 2.5 mm, not notched at tip; **sepals** 2, falling as soon as flower opens (caducous), cupped, ca. 7.7 × 2.6 mm, with overlapping margins, narrowly membranous on exposed margin, mostly not membranous on covered margin, hooded at tip and continuous with lateral margins, glabrous; **petals** 4, ascending at narrow base and then widely spreading, fan-shaped, 10–14 × 6.2–13.8 mm, tapered at base, jagged on outer margin, strong reddish orange with dark red or deep purplish red on thick, basal 1/3, with 5–9 veins radiating from base and forking 1–2× before reaching top, early-deciduous; **stamens** (12–)15–20, free; filament ascending, unequal, 7.4–8.4 mm long, deep reddish purple; anthers basifixed, dithecal, oblong, 1.1–1.6 × 0.5–0.9 mm, light yellow, longitudinally and sideways dehiscent; pollen light yellow; **pistil** 1, ca. 5 × 2.3 mm; ovary superior; ± 1/2 bullet-shaped (inversely turbinate), in range with 4–7 fused units (carpels), truncate at top and with a short rounded lobe for each carpel forming a crenate rim at top, shallowly and broadly ribbed on sides, green, glabrous, glaucous, 1-chambered with 400–450 ovules on placentae; style 1 mm long, 0.5–0.7 mm diameter at base and tapered upward, green at base grading to light yellow below stigma; stigma capitate, ± 0.6 × 1.1 mm, light yellow, with a short, folded lobe for each carpel forming a grooved, ridged, conspicuously papillate surface (texture of stigma soon becoming obscure). **Fruit:** capsule, dehiscent by pores beneath flaps of stigmatic lobes, many-seeded, ± top-shaped, 10–20 mm long, pores beneath flaps of lobes, broadly ribbed on sides, smooth, glabrous, glaucous, with persistent style and ball-like stigma. **Seed:** kidney-shaped to comma-shaped, 0.6–0.7 mm long, dull black, with deep rectangular pits in longitudinal rows and having prominent walls between the pits; aril absent. Early April–late April.

Native. Annual that follows fires and is therefore rarely seen in range and known from only a few, small, isolated populations. Recent observations were at locations where the plants were hidden beneath shrub regrowth and tall herbs. *Papaver heterophyllum*, formerly treated as the segregate genus *Stylomecon*, has flowers that in color resemble those of *P. californicum*, although flowers of wind poppy are smaller and have deep

purplish red on the basal third of each petal. Wind poppy also has a short style with a conspicuously papillate, ball-like stigma, and that pistil cannot be confused with any other species of poppy in range.

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