

Sanicula crassicaulis DC, PACIFIC SANICLE. Biennial or short-lived perennial herb, taprooted, rosetted, 1-stemmed at base, 25–130 cm tall; andromonoecious; shoots with basal leaves and cauline leaves, glabrous, aromatic \pm like celery (*Apium*); taproot blackish brown. **Stems:** typically 8-sided with low ridges, typically 5–7 mm diameter, with 3 ridges descending from each leaf, radish red to red-purple at base to green above; hollow. **Leaves:** helically alternate, deeply 3–5-palmately lobed and veined, long-petiolate, without stipules; petiole of basal and lower cauline leaves to 200 mm long, $> 2\text{--}4\times$ blade, reduced on upper cauline leaves, reddish and often winged at base, with 3 low, longitudinal ridges, having colorless, glandlike bodies on upper 2 ridges especially approaching blade, hollow; blade of basal leaves heart-shaped to roundish, 50–150 mm wide, length $<$ width, lobes obovate, each with 0–2 sublobes, central lobe the widest, to 50 mm wide and tapering to > 10 mm at base of lobe, serrate on margins with teeth having slender points, pinnately veined with principal veins sunken on upper surface and somewhat raised on lower surface, dull; blade of cauline leaves decreasing, with oblanceolate to lanceolate central lobe and 2 smaller lateral lobes or lacking lateral lobes on smaller leaves. **Inflorescence:** modified compound umbel, terminal and axillary to cauline leaves, compound umbel on long peduncle, typically having a terminal primary ray with only 1 umbellet + 2–4 peripheral primary rays each forming 3 umbellets at tip in a cymelike array, the lesser compound umbels headlike, umbellets hemispheric, 3–6 mm across, having terminal umbellet opening first, in bud green becoming yellowish green and then green in fruit, umbellet 5–22-flowered with 0–10 staminate flowers and 3–12 bisexual flowers, bracteate, glabrous; bract subtending peduncle = cauline leaf, decreasing upward; peduncle stemlike, strongly 8-ridged, at anthesis to 30 mm long, green, hollow; **involucre** subtending peripheral primary rays of subequal bracts, bracts typically free, leaflike, < 15 mm long, petiole with conspicuous, wide-membranous wings, to 3 mm long, wavy and with wings terminated by the lowest paired primary lobes of the bract, each primary leaflet only 3-lobed; primary rays 6-ridged, at anthesis < 1 mm long increasing in fruit; bract subtending secondary rays reduced from bract of primary rays; secondary rays conspicuously 4-ridged; involucre of bractlets subtending outer pedicels 6–9, \pm fused at bases, bractlet lanceolate to ovate, 1–5.5 mm long, the larger ones subtending bisexual flowers and commonly toothed but also lobed near base, green with scarious margins; pedicel of staminate flower 1.2–1.6 mm long, of bisexual flower 0.2–0.8 mm long increasing somewhat in fruit. **Staminate flower:** radial, ca. 2 mm across; **sepals** spreading, acute, 0.5–0.7 mm long, green with midvein, persistent; **petals** 5, heart-shaped in natural outline with long-acuminate tip permanently looped inward, ± 0.6 mm long (1–1.4 mm long including tip) \times 0.5–0.7 mm, pale yellowish green to light yellow, with ridge on inner surface, midvein slightly raised on outer surface; **stamens** 5, free, looped inward prior to anthesis; filaments spreading at maturity, ± 1 mm long, yellowish to light yellow; anthers dorsifixed, dithecal, oval, 0.3–0.4 mm long, light yellow, longitudinally dehiscent; pollen pale yellow; **pistil** aborted with 2-lobed, diminutive platform (stylopodium, stylar tissue) in center. **Bisexual flower:** bilateral, 2 mm across; **sepals** spreading, acute, 0.5–0.7 mm long, green with midvein, persistent; **petals** 5, heart-shaped in outline with long-acuminate tip permanently looped inward, ± 0.6 mm long (1–1.4 mm long including tip) \times 0.5–0.7 mm, pale yellowish green to light yellow, with midridge on upper (inner) surface; **stamens** 5, free, looped inward prior to anthesis; filaments spreading

at maturity, \pm 1 mm long, light yellow; anthers dorsifixed, dithecal, oval, 0.3–0.4 mm long, light yellow, longitudinally dehiscent; pollen pale yellow; **pistil** 1; ovary inferior and 2-lobed with diminutive, nectar-producing platform (stylopodium, stylar tissue) on top, bell-shaped somewhat compressed side-to-side, at anthesis ca. 1 mm long, green, bearing spreading, inward-hooked prickles, the hooks transparent, 2-chambered, each chamber with 1 ovule; styles 2, divergent, ascending and exerted before anthesis, 1–1.3 mm long, green. **Fruit:** schizocarp, of 2 dry, 1-seeded halves (mericarps), mericarps half-ellipsoid, 2.5–5 \times 2 mm, with stout, radiating, hooked prickles on outer sides, the prickles 0.5–1 mm long and with bulbous bases; staminate flowers often persisting among fruits in umbellet. Early February–mid-May.

Native. Perennial herb (possibly biennial herb) occurring throughout the range in relatively moist, often shady habitats often neighboring shrubs in chaparral and in understory of southern oak woodland. *Sanicula crassicaulis* has a set of lobed basal leaves, and therefore its blade is less dissected than other species.

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