

Orobanche bulbosa Beck, CHAPARRAL BROOMRAPE. Perennial herb, nonphotosynthetic root parasite (holophyte lacking chlorophyll), fleshy, either 1-stemmed or branched belowground to form several erect stems, at flowering to 15 cm tall (aboveground); shoots to 30 cm long, at least half subterranean having a swollen base, arising on old individuals from a tuberlike attachment to host root, belowground tuberlike portion \pm 25 mm diameter, aboveground being essentially an inflorescence with cauline bracts (\approx leaves) in transition to bracts, somewhat scabrous with peculiar short, white, nonglandular, papillate hairs (not glandular-hairy); roots embedded in host root (haustorial) of chamise (*Adenostoma fasciculatum*). **Stems:** gradually tapered from base, with bracts ridges descending from cauline leaves and bracts, purple (purplish brown) on aerial portion, papillate-hairy; tuberlike attachment with coral-like surface. **Leaves:** helically alternate, simple and sessile = nonphotosynthetic cauline leaves and bracts (scales), at base of stem crowded, overlapping, and appressed, \pm ovate, to 13 mm long, changing to ascending, somewhat cupped, narrower, and slightly keeled approaching inflorescence, fleshy, purplish brown to purple. **Inflorescence:** panicle with racemelike branches (thyrsoid panicle), terminal, dense, many-flowered, bracteate, conspicuously short-scabrous with stiff white hairs; bract subtending pedicle leaflike, narrowly triangular and cupped, purplish, entire, conspicuously nonglandular-hairy; pedicel ascending, cylindrical, 2–6 mm long; bracteoles subtending flower 2, opposite. **Flower:** bisexual, bilateral; **calyx** 5-lobed, ca. 10 mm long; tube cup-shaped (continuous with receptacle), 4–6 mm long; lobes somewhat unequally divided (1 deep sinus on lower side), short-hairy; lobes narrowly triangular, 5–8 mm long; **corolla** 2-lipped, 16–19 mm long, not compressed top-to-bottom, mostly reddish purple, with hairs on exposed surfaces; upper lip 2-lobed, lobes triangular or triangular-ovate; lower lip 3-lobed, lateral lobes equal and widely spreading, central lobe narrower, lobes acute at tip; **stamens** 4, 2 fused to upper and 2 to lower side at base of corolla throat, lacking staminodes; anthers dorsifixed, dithecal, longitudinally dehiscent; **pistil** 1; ovary superior, 1-chambered with hundreds of ovules on 4 placentae; stigma capitate funnel-shaped with sunken center. **Fruit:** capsule, loculicidal, 2-valved, many-seeded, ovoid-ellipsoid, ca. 7 mm long + persistent style ca. 3.5 mm long, glossy dark brown. **Seed:** \pm ellipsoid, 0.4–0.45 mm, yellow brown to brown.

Native. Parasitic perennial herb growing on roots (root parasite) of chamise (*Adenostoma fasciculatum*) but not observed in range during the floristic project. *Orobanche bulbosa* is a broomrape with purple shoots and reddish purple flowers. It is poorly described in the literature and needs a thorough study using living material, to replace the above, inadequate description.

B. A. Prigge & A. C. Gibson