**Phoradendron villosum** (Nutt.) Engelm., OAK MISTLETOE. Parasitic woody perennial, evergreen, forming thick attachment on host branch, with ascending to spreading or pendent shoots, to 150 cm long from woody base, canopy somewhat spheroid; dioecious; shoots with fleshy green leaves, densely soft-puberulent (velutinous). **Stems:** cylindric, flexible when herbaceous but breaking easily when woody, internodes typically 15–40 mm long, densely soft-hairy when young with short, whitish hairs aging tannish. Leaves: opposite decussate, simple, petiolate, without stipules; petiole somewhat flattened and elliptic in ×-section, 4–7(–11) mm long, grading into blade, stiff, densely puberulent; blade broadly elliptic to obovate or round,  $15-40(-50) \times 10-26(-32)$  mm, stiff, thick (ca. 1 mm), leathery, flat or often  $\pm$  saddle-shaped (longitudinally concave and transversely convex). broadly tapered at base, entire, rounded at tip, palmately veined with 3(-5), inconspicuous principal veins radiating from base and slightly raised on upper surface, dull. **Inflorescences:** interrupted, unisexual "spike," spikes 1–3 per leaf axil (to 6 per node). densely short-hairy on all exposed parts, many-flowered, bracteate; spike to 22 mm long increasing somewhat in fruit (pistillate), typically with 3–4 internodes (segments) with the lowest sterile, segments green, tapered to narrower base, densely short-hairy on all exposed parts, with flowers sunken in pits  $\pm 0.4$  mm (staminate) or  $\pm 0.8$  mm (pistillate) having a crownlike rim; bracts (cataphylls) opposite decussate at each node, reduced, fused into a collar around base of each segment, broadly triangular at tip. Staminate **inflorescence:** the lowest segment sterile, 2–3 mm long, other segments fertile, 3–7 mm long, fertile portion cylindric or broadly club-shaped to obovoid or barrel-shaped, when fully developed each fertile portion cylindric with 25–50 flowers tightly packed in ca. 8 poorly defined vertical files. **Staminate flower:** polygonal in bud, at anthesis ca. 0.8 mm across; **perianth** of 3–4 segments, segments pointing inward and not overlapping (valvate) but slightly gaping and exposing style of aborted pistil, broadly triangular,  $0.4-0.5 \times 0.7-$ 0.8 mm, fleshy, orangish yellow, short-hairy on outer surface; stamens 3-4, opposite bases of perianth segments; filaments absent (anther sessile); anthers dithecal,  $\pm 0.4$  mm long, greenish, longitudinally dehiscent; pollen colorless; **pistil** 1, abortive; ovary inferior, broadly top-shaped and shallowly 3-ridged, green, with short colorless style. Pistillate **inflorescence:** the lowest segment sterile, 2–3 mm long, other segments fertile, 3–7 mm long, fertile portion broadly club-shaped to obovoid or barrel-shaped, when fully developed each fertile portion spheroid to barrel-shaped with 10–19 flowers arranged in 6 ± vertical files. **Pistillate flower:** circular in bud, at anthesis ca. 1 mm across; **perianth** of 3(-4) segments, segments attached to rim of ovary, oriented inward and not overlapping (valvate) but slightly gaping and exposing style, broadly triangular,  $0.4-0.5 \times 0.5-0.8$  mm, fleshy, greenish yellow aging orangish and blushed red, short-hairy on outer surface and with ring of short hairs at base; pistil 1; ovary inferior, barrel-shaped to broadly topshaped, at anthesis ca. 0.8 mm long, green, minutely cobblestonelike, 1-chambered, chamber gelatinous without clearly defined ovules; style conic, very short, aging orangish with red stigmatic surface. **Fruit:** berry, several-"seeded" (embryo without seed coat),  $\pm$ broadly ovoid-elliptic, 3–4 mm, white to pinkish, glabrous below midpoint + papillatehairy approaching persistent perianth, fruit wall (exocarp) leathery; pulp gelatinous, very sticky when drying, colorless. Early July-mid-September.

Native. Perennial parasitic mistletoe in range attacking oaks (*Quercus*), in particular the evergreen *Q. agrifolia* and *Q. berberidifolia*. In California *P. villosum* has also been reported on other evergreen dicotyledons as host plants, including *Adenostoma*, *Arctostaphylos*, *Rhus*, and *Umbellularia*. Oak mistletoe flowers during summer, whereas the other species flowers during winter and early spring. This mistletoe has also been referred to *P. serotinum* subsp. *villosum*, and its proper name is yet unsettled because oak mistletoe does not appear to be a sister taxon to the other mistletoe in range, with which there are numerous, significant morphologic features.

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