**Polanisia dodecandra** (L.) DC. subsp. *trachysperma* (Torrey & A. Gray) H. H. Iltis, *Western Clammyweed*. Annual, taprooted, with several ascending branches, erect, in range to 40 cm tall; shoot with only cauline leaves, with stalked glandular hairs of different lengths (< 0.5 mm long) covering foliage and all axes, strongly odorous even without handling. **Stems:** cylindric, to 4 mm diameter, purplish; lower axis of old plant with unexpanded axillary shoots with diminutive leaves. **Leaves:** helically alternate, simple and palmately 3-foliolate, simple leaves along erect, principal axes grading into bractlets, petiolate, appearing without stipules; stipules 2 inconspicuous, hairlike, visible only at young shoot tip; petiole narrowly channeled base-to-tip, of 3-foliolate leaves (< 5−)20−50 mm, the longest below midplant decreasing upward above midplant, of simple leaves (1-foliolate) to 5 mm long decreasing upward to 1 mm long, often tinged rose on upper side, abscising just above base; petiolules conspicuously narrowly channeled, 1.5−2(<−3) mm long, lacking pulvinus, yellowish green, blade of simple leaf ovate, 7−16 × 4−10 mm, blades of leaflets obovate to elliptic, to 32 × 20 mm, tapered and symmetric (terminal leaflet) or broadly tapered and asymmetric (lateral leaflets) at base, entire, acute (obtuse) at tip, pinnately veined with principal veins conspicuously sunken on upper surface and midrib raised and lateral veins somewhat raised on lower surface, stalked glandular hairs evenly distributed, upper surface dull. **Inflorescence:** raceme, terminal, erect, many-flowered, ± flat-topped with flowers at level of buds but with stamens and styles long-exserted from flowers at top of raceme, flowers helically alternate, bracteate, glandular-hairy with mixed lengths of hairs; bractlet subtending pedicel 1-foliolate leaflike, short-petiolate, ca. 1 mm long, green, glandular-hairy, blade ovate, to 5 × 2 mm and folded upward along midvein; pedicel ascending, cylindric, 20−25 mm long, spreading in fruit; pinkish rose especially above midpoint and approaching flower, with persistent nectary at fruit base and lacking stipe beneath erect fruit. **Flower:** bisexual, bilateral, 15+ mm across (stamens); **sepals** 4, dimorphic, 3 sepals on upper (adaxial) side fused with short tube (bilateral), acuminate-lanceolate, at anthesis ± 4.5 × 1−1.4 mm, lower (abaxial) sepal cupping shorter stamens and ± ovate, ca. 5 × 2.2−2.5 mm, sepal growing during flowering, green and light red or purplish above midpoint, 5-veined from base, lower surface of sepals glandular-hairy, upper (inner) surface with evenly spaced glandular hairs; **petals** 4, alternate with adaxial sepals, long-clawed with limbs ascending, lateral pair 12.5−14 mm long, upper pair 9.5−10.5 mm long, white base-to-tip, slender claw to midpoint, sometimes with several inconspicuous glandular hairs on margins, limb fan-shaped notched at tip, 4 × 4.5 mm side, pinnately veined, somewhat cupped; **nectary disc** well-developed, ascending on adaxial side flanked by the 3 adaxial sepals next to bases of ca. 8 filaments, nectary base 1 × 1 × 2 mm, concave and mouthlike at top, sides pale orange, cup on top with flared and frilled rim, in face view 2 × 1.2 mm, salmon to light strawberry, filled with thin nectar; **stamens** 12−18 unevenly distributed in 4 groups, 8 next to nectary and arising from base of nectary, free, the longer stamens exerted; filaments unequal, in bud short when flowers growing, at pollination ca. half fully exerted on filaments to 25 mm long (stamens short, intermediate, and long), in bud young filaments light green aging light pink-purple or rose, with stalked glandular hairs of varied lengths;
anthers basifixed but appearing versatile, dithecal, 1.6–2 mm long, green aging red to purplish, longitudinally dehiscent; pollen whitish; pistil 1, before anthesis ca. 5 mm long with whitish ovary increasing to 10+ mm long at pollination and not borne on a stalk (gynophore); ovary superior, lanceoloid compressed ⊥ septum, 5+ × 1 mm, at pollination light green with red-purple suture covered with glandular hairs, 1-chambered with many ovules formed in 2 rows along septum; style in flower bud hidden among filaments of stamens, at pollination in range red-purple ≥ ovary and exserted with the longer filaments, increasing to 19 mm long; stigma terminal, narrowly flared, 0.2 mm diameter, purple, depressed at top. Fruit: capsule, dehiscent by 2 valves, many-seeded, ascending to suberect on spreading pedicel, on short gynophore, subcylindric and somewhat inflated ± bulging by seeds, 50–75 × 4–6 × 4 mm, with an acute tip, valves ± papery with stalked glandular hairs, seeds in 2 rows; gynophore to 2.5 mm long, with dried nectary at base.

Seed: somewhat snail-like (strongly curved like embryo) with a ⊥ groove, 2–2.2 × 2–2.2 × 1.3–1.4 mm, dark brown, minutely roughed with files of domed cells enhanced with larger bumps and poorly defined short ridges.

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