

Hordeum marinum Hudson subsp. ***gussoneanum*** (Parl.) Thell., MEDITERRANEAN BARLEY. Annual, fibrous-rooted, 1–several-stemmed at base, often bent (geniculate) at lower nodes, erect to decumbent, 9–15+ cm tall; shoots having 3–6 basal leaves and cauline leaves, scabrous, glabrous to pubescent. **Stems (culms):** cylindric, to ± 1.5 mm diameter, striped light green and pale yellowish green, smooth at base and slightly veiny upwards, internodes 4–24 mm long, glabrous; internodes hollow. **Leaves:** alternate distichous, simple with sheath; sheath essentially open to base, 13–37 mm long (the longest on flag leaf), typically $>$ internode, green with paler, veiny ridges, with overlapping whitish membranous margins, throat 1–11 mm long, usually with lobes (auricles) at top, auricles arching, 1–3(–4) mm long, whitish to light tan, finely pubescent to finely hirsute, sometimes with short auricle appressed to stem and continuous with the shorter ligule; ligule semi-transparent membranous, truncate, in range 0.2–0.5 mm long, entire or jagged, glabrous; collar structurally obscure but whitish; blade linear-triangular to linear, 6–45+ \times 1–2.6+ mm (the shortest on flag leaf), flat but becoming inrolled when dry, entire, parallel-veined with raised veins on both surfaces but more so on upper surface, glabrous. **Inflorescence:** spikelets, in terminal, dense “spike,” spike cylindric, in range in outline 20–30 \times 8–16 mm (including awns), at anthesis partially enclosed by sheath of flag leaf, spikelets in alternate distichous clusters of 3, nodes many, central spikelet sessile and bisexual, subtended by a 2-lobed pulvinus, lateral spikelets sterile and with stalk 0.6–1 mm long, spikelet with 1 floret, bracteate, awned, glumes and awns initially appressed later suberect with diverging awns; peduncle green, initially 20–40 mm long increasing in fruit, ca. 1 mm wide at top of sheath, glabrous; rachis segments 0.7–0.9 mm long, segments flattened to slightly concave on inner face, convex on outer face, ascending scabrous-pubescent on edges, glabrous on faces, at maturity breaking into segments above each node. **Central spikelet:** glumes 2, on outer (lemma) side of spikelet, equal, bristlelike, in range 10–12 \times 0.2 mm (including awn), grooved at least to midpoint on 1 face (ventral), convex on other face (dorsal), minutely scabrous-pubescent; rachilla extension present, prolonged behind palea as an axis 1.7–2.4 mm long; **lemma** awned, narrowly ovate, the lemma body 4.8–5.6 \times 0.9–1 mm, rounded on back, light yellowish green and obscurely 5-veined, entire with incurved margins embracing palea, mostly glabrous on outer face becoming scabrous at narrowed tip, the awn in range 6–7.3 mm long, glabrous; **palea** lanceolate, 4.6–5 \times 0.7–0.8 mm, pale green, 2-veined with veins close to median, \pm keeled at least at tip, glabrous by scabrous at narrowed tip. **Flower:** bisexual; **perianth (lodicules)** 2, \pm mitten-shaped to \pm lanceolate or narrowly ovate, 0.8–1.1 \times 0.25–0.35 mm, weakly lobed or with a lateral bulge on outer margin below midpoint, at anthesis fleshy at base, translucent, glabrous; **stamens** 3, free; filaments finely threadlike, to 3 mm long, whitish; anthers basifixed, dithecal, oblong, 0.7–1 mm long, light yellow, longitudinally dehiscent; pollen light yellow; **pistil** 1, ca. 2 mm long; ovary superior, 1–1.3 \times 0.3–0.4 mm, pilose at tip, 1-chambered with 1 ovule; styles 2, 0.7–1.1 mm long, colorless, with kinky stigmatic hairs from base to tip. **Lateral spikelets:** glumes 2, \pm equal but staggered, bristlelike, 9.2–10 \times 0.2–0.25 mm, grooved to midpoint on inner (ventral) face, minutely scabrous, lower (inner) glume sometimes slightly wider and longer than upper glume; rachilla 0.4–1 mm long, not prolonged behind palea; **lemma** awned, lanceolate, lemma body 2.2–2.4 mm long, rounded, entire and incurved on margins

embracing palea, the awn 2.3–3 mm long; **palea** 1–1.2 mm long, 2-veined. **Flower:** absent. **Fruit:** achene (caryopsis), dispersed as a unit with hardened lemma and palea, oblong compressed top-to-bottom, ca. 3×0.7 mm, tapered at base, with hairy appendage at truncate tip, convex on lemma side, with longitudinal groove on side facing palea and with palea firmly embedded in groove. Maid-April–late May.

Naturalized. Annual known from several old collections on the northeast slope of Conejo Mountain, in fields west of Cornell Corners, and near Seminole Hot Springs, growing in clay soil.

B. A. Prigge & A. C. Gibson