

## *Galium* L. BEDSTRAW

*Galium aparine* L., COMMON BEDSTRAW, STICKWILLY, CLEAVERS, GOOSE-GRASS. Annual, viney, taprooted, 1–several-stemmed at base, prostrate or decumbent, trailing and climbing over low plants; shoots weak-stemmed, extremely scabrous with minute, hooked prickles (barbs) along internode stem edges and blade margins and midribs. **Stems:** 4-sided, to 2 mm diameter, never woody, sides convex, edges raised, nongreen and fibrous, with backward-pointing or hooked, very short stiff hairs (prickles), adhesive to itself and clothes. **Leaves:** whorled (includes stipules indistinguishable from blades), 6 or 8 per whorl, simple and sessile; blade linear to narrowly oblanceolate, (4–)13–45 × 1.5–6 mm, bright green, margins somewhat inrolled under with downward-projected, hooked prickles (retroscars hispid), short-acuminate with sharp point at tip, midrib only conspicuous and raised on lower surface, short-scabrous with hooks facing toward tip, lower surface scabrous along midrib. **Inflorescence:** dichasial cyme, paired and axillary at all branchless nodes, or unequal dichasia forming a leafy panicle, commonly congested at tip of main axis and appearing indeterminate, sometimes with a secondary dichasium in leaf axis and below an existing axillary dichasium, dichasium 15–130 mm long, to 4 orders of branching, typically with 1 pedicellate flower + 2 branchlets per node, bracteate (whorled at each node), with pricklelike hairs as on shoot; peduncle 6–80 mm long, higher order axes reduced ca. 1/2 length of previous internode, axes 4-sided with retroscars hooked prickles along angles; bracts at each node whorled, leaflike, progressively reduced at higher order nodes; pedicel at anthesis < 0.5 mm long increasing to 15 mm long in fruit. **Flower:** bisexual, nearly radial, 2.2–3 mm across; **perianth (corolla)** 4-lobed, of 1 whorl, rotate, whitish; tube ± 0.2 mm long, greenish at base; lobes spreading, widely ovate, 0.65–1.1 × 0.55–0.9 mm, paired slightly unequal, white, often slightly upturned at acute to acuminate tip, short-papillate below tip on inner surface; **stamens** 4, fused to corolla tube at or slightly below sinuses between lobes; filaments ± cylindrical aging flattened front-to-back, 0.35–0.6 mm long, whitish; anthers dorsifixed, dithecal, oblong to heart-shaped, 0.2–0.3 × 0.15–0.3 mm, light yellow, longitudinally dehiscent; pollen yellow; **nectary** 2-lobed (initially appearing as a circular disc but separating into 2 distinct semicircular ridges), ± flush with top of corolla tube, 0.15–0.4 mm diameter, green; **pistil** 1; ovary inferior, 2-lobed, lobes subspheric-oblong, ca. 0.8 × 1 × 0.6 mm, green, each half ellipsoid, with a light green, semicircular ridge at top, with upward-hooked bristles, 2-chambered, each chamber with 1 ovule; styles ascending to erect, very short, 2-branched, base < 0.2 mm long, the branches unequal, 0.2–0.3 mm long; stigmas spherically capitate, whitish prior to pollination, papillate. **Fruit:** schizocarp, of 2 mericarps (nutlets), each mericarp 1-seeded, subspheroid to kidney-shaped, 2.2–2.8 × 1.9–2.3 mm, brownish, densely bristly with hooked prickles having swollen bases, the prickles to 0.6 mm long. Mid-February–late May.

Naturalized. Annual found throughout the range, especially in shade or partial shade where moist, e.g., southern oak woodland or old chaparral, but also found in sunny locations on recent burns. *Galium aparine* germinates with winter and spring rains, and shoots can exceed one meter in length, and when collected often become tangled and clinging to itself and other low vegetative with its hooked prickles. The mericarps also

have hooks, which readily become attached to socks or animal fur, thereby transported to other sites.

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