

Key updated to include new taxonomy regarding the treatment of *S. virgata*, here synonymized within a newly published taxon *S. asprella* subsp. *virgata*. This change is consistent with how the taxon is being treated by Flora of Oregon and is an acceptable interpretation of the molecular phylogenetic work of Andreasen and Baldwin (2003).

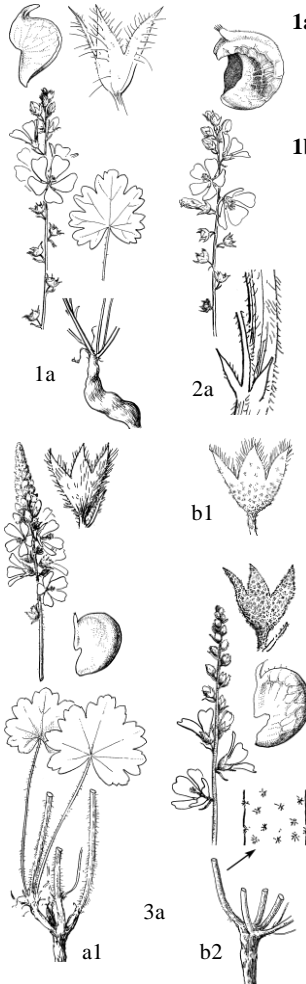
### References:

Andreasen, K. & B.G. Baldwin. 2003. Reexamination of relationships, habital evolution, and phylogeography of checkermallows (*Sidalcea*; Malvaceae) based on molecular phylogenetic data. *Amer. J. Bot.* 90(3):436–444.

### *Sidalcea* Gray Checker-mallow; *Sidalcea*

Fls racemose; pls ♀ to ♂, ♀, the ♀ fls smaller and often darker colored than the ♂ fls; petals white to deep pink or pinkish-lavender, ciliate on the claws; stamens free in 2–3 series, filaments of the outer 2 series mostly connate in groups of 2–6, the uppermost series gen with 10 partially connate pairs; mericarps 5–10, tardily separating, 1-seeded; ann or per (ours) herbs, gen stellate-pubescent and often ± hirsute; lvs ovate to reniform cordate, margins gen palmately lobed. (Gr *Sida*, plus *Alcea*, both names of other genera).

*Sidalcea asprella* Greene, coll once (1916) in Lane Co, OR, is poorly differentiated from *S. virgata* in our area; *S. glaucescens* Greene app our area in sw ID; a report of *S. hirsuta* A. Gray from Linn Co, OR, is erroneous. The treatment here reflects current knowledge; further taxonomic studies will likely lead to changes.



**1a** Pls from enlarged, ± fleshy, taproot or fascicled root, not rhizomatous, 2–7 dm, sparsely hirsute, esp on the calyx; racemes elongate and loosely fld; mericarp nearly smooth throughout, ca 2.5 mm, with curved beak ca 0.6 mm; moist, strongly alkaline areas; ec OR to WY, s to CA, NM, and Mex; RM c. (*S. crenulata*, *S. n.* var. *c.*)

#### 1 *S. neomexicana* Gray

**1b** Pls with woody roots, often rhizomatous, gen strongly stellate, at least on the calyx; racemes often congested and spicate; mericarps reticulate-pitted to smooth

**2a** Petals white to pale pink, occ pinkish-lavender; lower part of st gen hirsute with simple (forked) hairs; outer calyx surface uniformly stellate-pubescent, sometimes also with long, bristly hairs; racemes elongate, loosely fld, calyces gen not overlapping at anthesis; mericarps ca 3.5 mm, the sides rather prominently reticulate-pitted; pls short-rhizomatous, 5–20 dm; dry fields, Wi Va, from Portland s, apparently hybridizes with no 5 in Lewis Co, WA; often cult and occ escaped elsewhere; meadow s.

#### 2 *S. campestris* Greene

**2b** Petals gen deep pink to pinkish-lavender; st base glab to stellate; racemes often closely fld, spikelike, calyces often overlapping at anthesis; mericarp texture various; pls sometimes nonrhizomatous

**3a** Pls nonrhizomatous, often with woody roots and decumbent but non-rooting brs; lvs often strongly glaucous, sometimes fleshy; mericarp sides from nearly smooth to reticulate-pitted; pls 2–15 dm; from sagebr plains to meadows and ponderosa pine woodl; mostly e Cas, c WA to CA, e to WY and UT; OR c.; 3 weakly defined vars. in our area

#### 3 *S. oregana* (Nutt.) Gray

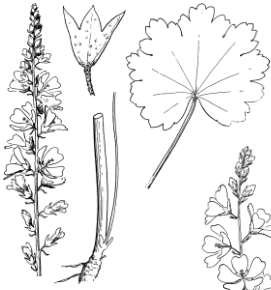
**a1** St base with simple to forked hairs; long, stiff hairs of outer calyx surface and lobe margins dense to scattered, stellate pubescence ± uniformly dense on outer calyx surface; mericarp sides smooth to lightly reticulate veined; c OR to NV and CA (*Callirhoe s.*, *S. s.*, *S. o.* subsp. *s.*) var. **spicata** (Regel) Jeps.

**a2** St base stellate-pubescent or glab; long, stiff hairs along calyx lobe margins only or gen absent, outer calyx surface sparsely or uniformly dense short stellate-pubescent; mericarp sides reticulate-rugose

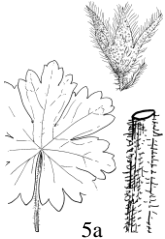
**b1** Stiff hairs along calyx lobe margins only, outer calyx surface gen sparsely short stellate-pubescent; st base glab; Wen Mts, WA var. **calva** Hitchc.

**b2** Stiff hairs on outer calyx gen absent, rarely scattered, outer calyx surface gen uniformly densely covered with short stellate-pubescent, rarely with scattered, long, stiff hairs; st base stellate pubescent or glab; range of sp. (*S. o.* vars. *procera*, *maxima*) var. **oregana**

**3b** Pls rhizomatous but rhizomes often short and thick; st sometimes trailing and rather freely rooting; herbage not particularly glaucous; mericarps reticulate-pitted or smooth; pls to 15 dm; mostly w Cas



4a



5a



6a



7a



7b

**4a** Calyx 4–7 mm, subglab to uniformly short stellate-pubescent, gen purplish; st glab to sparsely hirsute with short, appressed, simple hairs at base; mericarp sides lightly reticulate, beak < 0.5 mm; petals 5–15 mm; gravelly, well-drained soil; Lewis Co, WA, to Linn Co, OR, w to e Tillamook Co; Nelson's c.

4 **S. nelsoniana** Piper

**4b** Calyx mostly > 6 mm, gen densely hairy; st gen very hairy at base; mericarps often coarsely reticulate, beak often  $\geq$  0.5 mm; petals frequently > 15 mm

**5a** St bases hirsute with rather stiff, simple or forked hairs 1–2.5 mm; racemes spikelike, congested, gen < 8 cm; calyx 9–15 mm, enlarged considerably in fr, finely stellate but also strongly hirsute with hairs 1–2 mm; mericarp sides prominently reticulate-alveolate; coastal mts to bluffs along the ocean and CRG, but never on tideflats; Clark Co, WA, to Lincoln, Tillamook and Clatsop cos, OR; hairy-std c.; pls in Lewis Co, WA, are possible hybrids with no 2

5 **S. hirtipes** Hitchc.

**5b** St bases gen with stellate pubescence; racemes elongate; calyx < 9 mm, or pl otherwise not as above

**6a** Calyx lobes not widened above base, gen tapered  $\pm$  evenly to the tip, outer calyx surface  $\pm$  uniformly short stellate-pubescent, often purplish; sts mostly < 10 dm, not fistulose, gen trailing and freely rooting at base, often truly rhizomatous; racemes commonly rather open; petals 5, rounded but retuse, 10–30 mm; mericarp sides gen strongly reticulate-pitted; fields and roadsides to grassy hillsides and lower mts, esp in moist meadows, Wi Va s to Josephine Co, OR; disjunct population in Thurston, Co, WA, the nativity of which is unclear; rose c. (*S. malviflora* subsp. *virgata*, *S. v.*); ours subsp. *virgata* (Howell) Halse

6 **S. asprella** Greene

**6b** Calyx lobes often widened above base, outer calyx surface glab or subglab except for ciliate margins, often purplish, much-enlarged in fr; sts to 18 dm,  $\pm$  fistulose; racemes compound, closely fld and spikelike; petals often > 5, truncate or erose, 10–18 mm; mericarp sides smooth to slightly reticulate; two intergrading spp. that may best be recognized as two subsp. of no 7

**7a** St glab or only sparsely pubescent at base with short, simple to forked hairs; mericarps ca 4 mm, sides nearly or quite smooth, the beak gen at least 1 mm; coastal, gen on or near tidel; VI to Umpqua R area in OR; Henderson's c.

7 **S. hendersonii** S. Watson

**7b** St appressed stellate-pubescent, occ glab, at base; mericarps ca 3 mm, sides smooth or only slightly reticulate, the beak 0.5–1 mm; open fields, mostly in rather heavy soil; Lane, Douglas, and Coos cos, OR; Cusick's c.

8 **S. cusickii** Piper