

Plant Propagation Protocol for *Sidalcea campestris*
ESRM 412 – Native Plant Production





(Source: Slichter, 2011)



(Source: Wikipedia, 2019)

TAXONOMY	
Plant Family	
Scientific Name	Malvaceae Juss. ¹
Common Name	Mallow ¹
Species Scientific Name	
Scientific Name	<i>Sidalcea campestris</i> Greene ¹
Varieties	
Sub-species	
Cultivar	
Common Synonym(s)	<i>Sidalcea sylvestris</i> A. Nelson ¹
Common Name(s)	meadow checkerbloom ¹ , meadow checker-mallow, tall wild hollyhock, tall wild checkermallow ³
Species Code (as per USDA Plants database)	SICA2 ¹
GENERAL INFORMATION	

Geographical range	<p>Washington, Oregon</p>  <p>North America Distribution Source: USDA Plants Database</p>  <p>Pacific Northwest Distribution Source: USDA Plants Database</p>
Ecological distribution	meadows, prairies, along roadsides or edges of woodlands, wetland, and riparian areas ³
Climate and elevation range	elevations below 700 feet ³ , temperate and seasonal ⁴
Local habitat and abundance	moist soil and full sun ⁴ , well-drained soils ⁴ , prairies, meadows, riparian areas, roadsides
Plant strategy type / successional stage	drought-tolerant ⁵ , competitive with weeds ⁶
Plant characteristics	herbaceous perennial wildflower, leaves deeply palmate, hairy and hollow branched stems, white to pale pink cup-shaped flowers, flowering period from June to August ³ , self or cross-pollinated by pollinators ⁶
PROPAGATION DETAILS	
Ecotype	temperate climate and moist, well-drained soils ⁵
Propagation Goal	plants
Propagation Method	seed

Product Type	container (plug)
Stock Type	container
Time to Grow	~ 3 months
Target Specifications	~6 inches at time of outplanting, established root system
Propagule Collection Instructions	collect seeds at end of flowering season (late summer-early fall) ³ , seeds mature and fall to the ground ⁶
Propagule Processing/Propagule Characteristics	100,000 seeds per pound ³
Pre-Planting Propagule Treatments	seeds need scarified using sandpaper ² , can cold stratify seeds but no germination difference was observed between stratified and non-stratified seeds ²
Growing Area Preparation / Annual Practices for Perennial Crops	sow into cone-tainers with soilless peat-based media ² , set at moderate temperatures (70°F days/50°F nights) ² ,
Establishment Phase Details	sow seed no deeper than ¼ inch ³ , keep soil moist
Length of Establishment Phase	generally 2 weeks ³
Active Growth Phase	keep soil somewhat moist, relatively slow growing ⁶
Length of Active Growth Phase	about 2 months
Hardening Phase	introduce slight water stress to prepare for winter conditions and outdoor factors
Length of Hardening Phase	a few weeks to 1 month, before start of winter conditions
Harvesting, Storage and Shipping	no storage necessary, transplant seedlings in early spring and place 12-18 inches apart ⁴
Length of Storage	no storage necessary
Guidelines for Outplanting / Performance on Typical Sites	plants can grow up to 3-6 ft after outplanting ⁴ , establishment rating is low to medium from direct seeding and high from plugs ⁶
Other Comments	seeds germinated all throughout the year, seeds will continue to germinate for a long time period ² , keep plants monitored in nursery and outplant the following spring if germination or development is delayed
INFORMATION SOURCES	
References	<p>1. <i>Sidalcea campestris</i> Greene. (n.d.). USDA Plants Database. https://plants.usda.gov/home/plantProfile?symbol=SICA</p> <p>2. Bartow, A. (2007). <i>Sidalcea (campestris)</i>. Native Plant Network — Reforestation, Nurseries and Genetics Resources. https://nnpn.rngr.net/renderNPNProtocolDetails?selectedProtocolIds=malvaceae-sidalcea-2733</p>

	<p>3. Young-Mathews, A. & USDA NRCS Corvallis Plant Materials Center, Oregon. (2012). <i>Plant Fact Sheet MEADOW CHECKERBLOOM</i>. USDA-Natural Resources Conservation Service, Plant Materials Center, Corvallis, OR. https://plants.usda.gov/DocumentLibrary/factsheet/pdf/fs_sica2.pdf</p> <p>4. <i>Meadow Checkermallow</i>. (n.d.). OregonFlora. https://oregonflora.org/taxa/garden.php?taxon=8377</p> <p>5. <i>Meadow Checker-mallow (Sidalcea campestris)</i>. (2023). iNaturalist. https://www.inaturalist.org/taxa/168939-Sidalcea-campestris</p> <p>6. Corvallis PMC, & Bartow, A. (2015). Native Seed Production Manual for the Pacific Northwest. https://www.nrcs.usda.gov/plantmaterials/orpmcpu12767.pdf</p> <p>Pictures:</p> <p>Wikimedia Foundation. (2019, June 18). <i>Sidalcea campestris</i>. Wikipedia. https://en.wikipedia.org/wiki/Sidalcea_campestris#/media/File:Sidalcea_campestris_inflorescence.jpg</p> <p>Slichter, P. (2023, May 22). <i>Meadow checkerbloom, meadow checker-mallow, Meadow Sidalcea</i>. Meadow Checkerbloom, Meadow Checker-mallow, Meadow Sidalcea: <i>Sidalcea campestris</i> (Synonyms: <i>Sidalcea asplenifolia</i>, <i>Sidalcea sylvestris</i>). http://science.halleyhosting.com/nature/plants/5petal/mallow/sidalcea/campestris.html</p>
Other Sources Consulted	<p>abide_admin. (2017, June 19). <i>Natural history of checker-mallows of western Oregon</i>. Institute for Applied Ecology.</p>

	<p>https://appliedeco.org/natural-history-of-checker-mallows-of-western-oregon/</p> <p><i>Meadow checkermallow</i>. Nature of Your Neighborhood. (2023, January 25). https://natureofyourneighborhood.org/plant/meadow-checkermallow/</p> <p>Knoke, D., Siegmund, W., & Giblin, D. (n.d.). <i>Sidalcea campestris</i>. Sidalcea campestris - burke herbarium image collection. https://burkeherbarium.org/imagecollection/taxon.php?Taxon=Sidalcea+campestris</p> <p><i>Sidalcea campestris</i>: <i>Meadow checker-mallow</i>. Wildflower Search. (n.d.). https://wildflowersearch.org/search?oldstate=bloom%3AIgnore&PlantName=Sidalcea+campestris</p>
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