Plant Propagation Protocol for Sidalcea nelsoniana

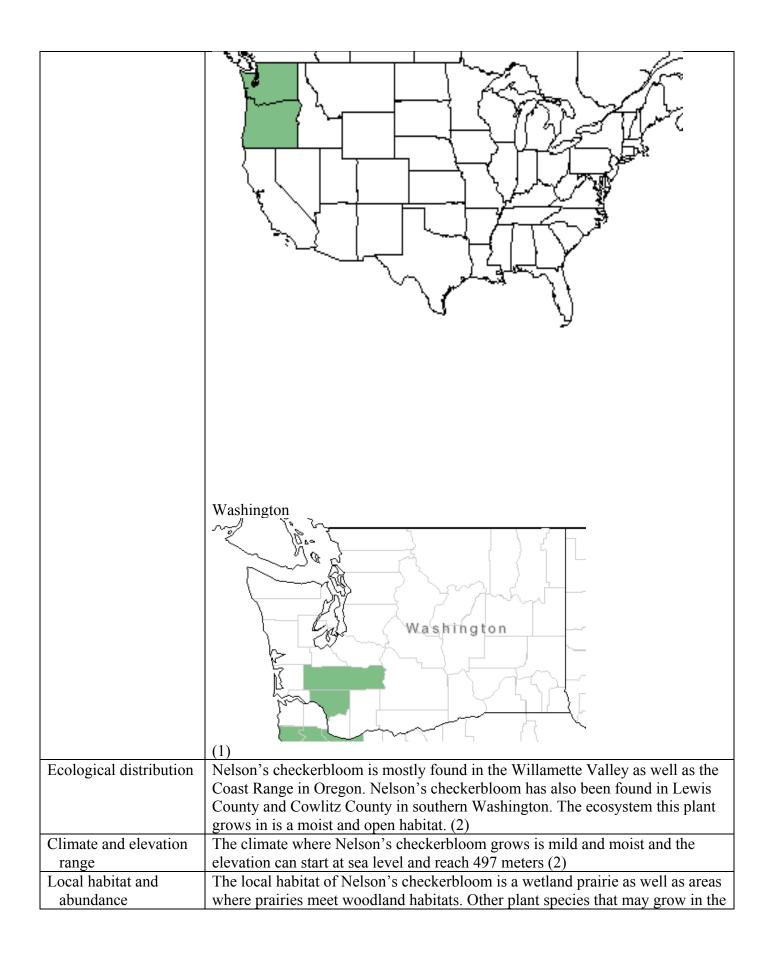
ESRM 412 – Native Plant Production

Protocol URL: https://courses.washington.edu/esrm412/protocols/SINE2.pdf



Oregon Department of Agriculture

TAXONOMY		
Plant Family		
Scientific Name	Malvaceae	
Common Name	Mallow	
Species Scientific		
Name		
Scientific Name	Sidalcea nelsoniana Piper	
Varieties	N/A	
Sub-species	N/A	
Cultivar	N/A	
Common Synonym(s)	N/A	
Common Name(s)	Nelson's Checkerbloom (1,3,4)	
Species Code (as per	SINE2 (1)	
USDA Plants		
database)		
GENERAL INFORMATION		
Geographical range	North America	



areas as the checkerbloom include: Oregon ash, Tufted hairgrass, Reed
rygrass, Common rush, and Slough sedge. (6).
on's checkerbloom uses a weed like strategy to survive. It is able to
duce and spread quickly through both asexual and sexual reproduction.
on's checkerbloom can also easily adapt to different soil types, different
ants of moisture, and different habitats. (6)
on's checkerbloom is a forb. It is an erect perennial and the stems can grow
where from 40 to 100 cm tall and be covered in short hairs. The plant also
asal toothed palmately lobed leaves. Each plant can have 30 to 100
enta flowers that will produce 7 to 9 seeds annually. (5,6,7)
PROPAGATION DETAILS
rs (8)
(8)
ainer (plug) (8)
xs (8)
arget specifications that are being observed in Nelson's checkerbloom is
here needs to be well-developed crowns and the roots and rhizomes need
the soil in the container plug. (8)
ollect seeds, catch debris and ripened seeds from the flowers with weed
c. After all debris has been collected, use a seed stripper to sweep the
ining seeds off of the weed fabric. (9)
on's checkerbloom can produce 75,000 to 150,000 seeds per pound of
rial. (9)
cleaning the seeds, a 120-day stratification treatment needs to take place.
is a cool and moist stratification at 38F to induce germination. (8)
growing media should be a loamy soil that can become saturated with
r during the rainy season. Seeds can be directly planted into the media, but
er survival will be yielded if planted in plugs and then transplanted into the
For container production, the seeds should be sown in 7 cubic inch cone-
rs.
slow release fertilizer into the cones and keep the plants in a moderate
erature greenhouse (70F days and 50F nights) (9)
eks (9)
larly water the plants and keep them in a moderate temperature greenhouse
days/50F nights) throughout the active growth phase. (9)

Harvesting, Storage and Shipping	Seeds can be harvested through a thresher and are sent through an air-screen machine to clean off debris that was left on the seed. Dry all of the seeds before stratification. (9)	
Length of Storage	N/A	
Guidelines for	The percent survival of the Nelson's checkerbloom grown from seed is	
Outplanting /	relatively high given the right conditions to grow. The plant is very adaptable to	
Performance on	different environments and soils, allowing it to perform well on different	
Typical Sites	wetland prairie sites. Once planted on the site, the checkerbloom can grow up to	
Typion Sives	100 cm tall. (7,9)	
Other Comments	The status of this plant is currently listed as Critically Imperiled	
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Protocol Author	Claire Casey
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