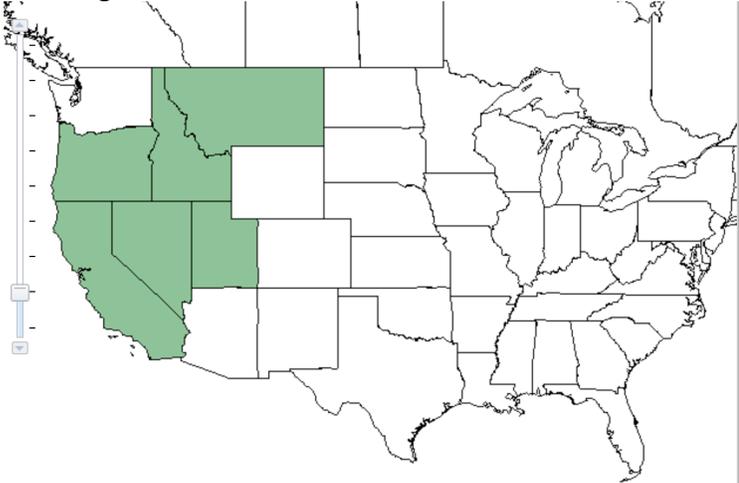
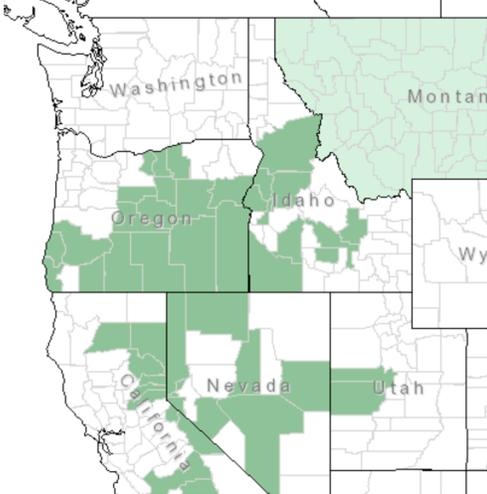


**Plant Propagation Protocol for *Allium parvum***

ESRM 412 – Native Plant Production

Protocol URL: <https://courses.washington.edu/esrm412/protocols/ALPA3>

<b>TAXONOMY</b>	
<b>Plant Family</b>	
Scientific Name	Liliaceae <sup>6</sup>
Common Name	Lily Family <sup>6</sup>
<b>Species</b>	
Scientific Name	
Scientific Name	<i>Allium parvum</i> Kellogg <sup>6</sup>
Varieties	N/A
Sub-species	N/A
Cultivar	N/A
Common Synonym(s)	<i>Allium modocense</i> <i>Allium tribracteatum</i> var. <i>andersonii</i> <sup>6</sup>
Common Name(s)	Small onion <sup>6</sup>
Species Code (as per USDA Plants database)	ALPA3 <sup>6</sup>
<b>GENERAL INFORMATION</b>	
Geographical range (distribution maps for North America and Washington state)	<p>Its geographical range extends along the west coast of North America, reaching as far east as Montana.</p> 

	
Ecological distribution	Generally found in dry, sloped areas. <sup>2</sup>
Climate and elevation range	Found at 1250 to 3040 meters <sup>5</sup>
Local habitat and abundance	They thrive in rocky clay soils at mid to high elevations. <sup>7</sup>
Plant strategy type / successional stage	Shade and low water tolerant, it's a non-assertive plant. <sup>5</sup>
Plant characteristics	A perennial bulb with an outer gray coating. Its flowers grow close to the soil surface and have white or pink color with elliptical, longer petals. <sup>4</sup>
<b>PROPAGATION DETAILS</b>	
Ecotype	N/A
Propagation Goal	Bulbs <sup>1</sup>
Propagation Method	Vegetative <sup>7</sup>
Product Type	Bareroot <sup>7</sup>
Stock Type	N/A
Time to Grow	1 year <sup>2</sup>
Target Specifications	Plants should have bloomed flowers before moving to an outdoor position. <sup>2</sup>
Propagule Collection Instructions	N/A
Propagule Processing/Propagule Characteristics	N/A
Pre-Planting Propagule Treatments	N/A
Growing Area	Plants should be grown in dry, clay like soil. <sup>7</sup>

Preparation / Annual Practices for Perennial Crops	
Establishment Phase Details	N/A
Length of Establishment Phase	N/A
Active Growth Phase	After establishing roots, the plant produces small flowers. <sup>4</sup>
Length of Active Growth Phase	3 months <sup>4</sup>
Hardening Phase	N/A
Length of Hardening Phase	N/A
Harvesting, Storage and Shipping	N/A
Length of Storage	N/A
Guidelines for Outplanting / Performance on Typical Sites	N/A
Other	N/A

### INFORMATION SOURCES

References	<p>"Allium Parvum in Flora of North America @ Efloras.org." <i>Allium Parvum in Flora of North America @ Efloras.org</i>. N.p., n.d. Web. 25 May 2016.  &lt;<a href="http://www.efloras.org/florataxon.aspx?flora_id=1&amp;taxon_id=242101386">http://www.efloras.org/florataxon.aspx?flora_id=1&amp;taxon_id=242101386</a>&gt;.<sup>1</sup></p> <p>Hitchcock, Charles Leo. <i>Flora of the Pacific Northwest</i>. N.p.: U of Washington, 1973. Print.<sup>2</sup></p> <p>"NPIN: Native Plant Database." <i>Lady Bird Johnson Wildflower Center</i>. N.p., n.d. Web. 20 May 2016.  &lt;<a href="http://www.wildflower.org/plants/result.php?id_plant=ALPA3">http://www.wildflower.org/plants/result.php?id_plant=ALPA3</a>&gt;.<sup>3</sup></p> <p>Peck, Morton Eaton. <i>A Manual of the Higher Plants of Oregon</i>. Portland, Or.: Binford &amp; Mort, 1941. Print.<sup>4</sup></p> <p>"Plant Characteristics and Associations - Calflora." <i>Plant Characteristics and Associations - Calflora</i>. N.p., n.d. Web. 20 May 2016.  &lt;<a href="http://www.calflora.org/entry/plantchar.html?crn=222">http://www.calflora.org/entry/plantchar.html?crn=222</a>&gt;.<sup>5</sup></p> <p>"Plants Profile for Allium Parvum (small Onion)." <i>Plants Profile for Allium Parvum (small Onion)</i>. N.p., n.d. Web. 20 May 2016.  &lt;<a href="http://plants.usda.gov/core/profile?symbol=ALPA3">http://plants.usda.gov/core/profile?symbol=ALPA3</a>&gt;.<sup>6</sup></p> <p>Turner, Mark, and Phyllis Gustafson. <i>Wildflowers of the Pacific Northwest</i>. Portland, Or.: Timber, 2006. Print.<sup>7</sup></p>
------------	---

Other Sources Consulted	
Protocol Author (First and last name)	Amy Wong
Date Protocol Created or Updated (MM/DD/YY)	05/25/16