

**Plant Propagation Protocol for *Orogenia linearifolia***  
 ESRM 412 – Native Plant Production



Image from WTU University of Washington

<b>TAXONOMY (6)</b>	
<b>Family Names</b>	
Family Scientific Name:	Apiaceae
Family Common Name:	Carrot Family
<b>Scientific Names</b>	
Genus:	<i>Orogenia</i>
Species:	<i>linearifolia</i>
Species Authority:	S. Watson
Variety:	<i>Orogenia linearifolia</i> S. Watson var. <i>lata</i> Payson
Sub-species:	
Cultivar:	
Authority for Variety/Sub-species:	Payson
Common Synonym:	
Common Name:	Great Basin Indian potato
Species Code:	ORLI
<b>GENERAL INFORMATION</b>	
Geographical range:	<b>US: CO, ID, OR, UT, WA, &amp; WY (6)</b> 

Ecological distribution:	Dry, often rocky meadows in the valleys to open slopes and ridges from the lower foothills to moderate elevations in the mountains. (1, 4)
Climate and elevation range	Low to mid-elevations. (1,3)
Local habitat	South Washington, east of the Cascades. (1)
Plant strategy type:	<i>O. linearifolia</i> is a species often found near vernal snow banks, blooming as soon as snow has cleared off the ground. (3)
Plant characteristics:	<i>O. linearifolia</i> is a perennial for. (3)
<b>PROPAGATION DETAILS (2)</b>	
Ecotype:	
Propagation Goal:	Plants
Propagation Method:	Seed
Product Type:	Container (pots)
Stock Type:	
Time to Grow:	11-15 weeks
Target Specifications:	Stem: 2-8 cm long Tuber: 1.5-2.5 cm long (1,4)
Propagule Collection:	Seed is ripe in late spring/early summer.
Propagule Characteristics:	Other species in the Apiaceae family have seed densities of 1736 seeds per ounce.
Pre-Planting Propagule Treatments:	
Growing Area Preparation:	Prepare a deep, sandy loam that allows the roots to develop. Make sure that the soil media is well drained.
Establishment Phase:	In a cold frame sow seeds thinly, covering lightly with soil and water in.
Length of Establishment Phase:	Germination will occur within 2-3 weeks
Active Growth:	After germination is complete, thin seedlings to a spacing of 3 to 8 cm to eliminate competition or move seedlings to individual containers. (2, 7)
Length of Active Growth Phase:	9-12 weeks
Hardening Phase:	
Length of Hardening Phase:	
Harvesting, Storage and Shipping:	
Length of Storage:	
Guidelines for Outplanting:	<i>O linearifolia</i> should be outplanted into a permanent position in late spring/early summer after the last expected frost. (7)
Other Comments:	<i>O. linearifolia</i> was a highly sought after food source by some Native Americans. (4)
<b>INFORMATION SOURCES</b>	
References:	1 - Hitchcock, C. Leo, Arthur Cronquist, Marion Ownbey, and J.W. Thompson. <i>Vascular Plants of the Pacific Northwest Part 3</i> . Seattle: University of Washington Press, 1984. Print.

	<p>2 - McVicar, Jekka. <i>Seeds: The Ultimate Guide to Growing Successfully from Seed</i>. Guilford, CT: The Lyons Press, 2003. Print.</p> <p>3 - Nelson, Ruth Ashton. <i>Handbook of Rocky Mountain Plants</i>. 3rd. Estes Park, CO: Skyland Publishers, 1979. Print.</p> <p>4 - Strickler, Dee. <i>Prarie Wildflowers</i>. Columbia Falls, MT: The Flower Press, 1989. Print.</p> <p>5 - "Orogenia linearifolia." <i>ibiblio.org/pfaf</i>. Plants For A Future. 12 May 2009 &lt;<a href="http://www.ibiblio.org/pfaf/cgi-bin/arr_html?Orogenia+linearifolia">http://www.ibiblio.org/pfaf/cgi-bin/arr_html?Orogenia+linearifolia</a>&gt;.</p> <p>6 - " PLANTS Profile for Orogenia linearifolia (Great Basin Indian potato)   USDA PLANTS." <i>plants.usda.gov</i>. USDA NRCS. 12 May 2009.</p> <p>7 - "WTU Herbarium Image Collection - Burk Museum." <i>The Burke Museum</i>. University of Washington. 12 May 2009.</p>
Other Sources Consulted:	<p>Coulter, John M.. <i>New Manual of Botany of the Central Rocky Mountains (Vascular Plants)</i>. New York: American Book Company, 1937. Print.</p> <p>Gilkey, Helen M., and La Rea J. Dennis. <i>Handbook of Northwestern Plants</i>. Corvallis, OR: Oregon State University Bookstores, 1969. Print.</p> <p>Hitchcock, C. Leo, and Arthur Cronquist. <i>Flora of the Pacific Northwest: An Illustrated Manual</i>. Seattle: University of Washington Press, 1974. Print.</p>
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