

Plant Propagation Protocol for *Idahoia scapigera*

ESRM 412 – Native Plant Production

Protocol URL: [https://courses.washington.edu/esrm412/protocols/\[IDSC.pdf\]](https://courses.washington.edu/esrm412/protocols/[IDSC.pdf])

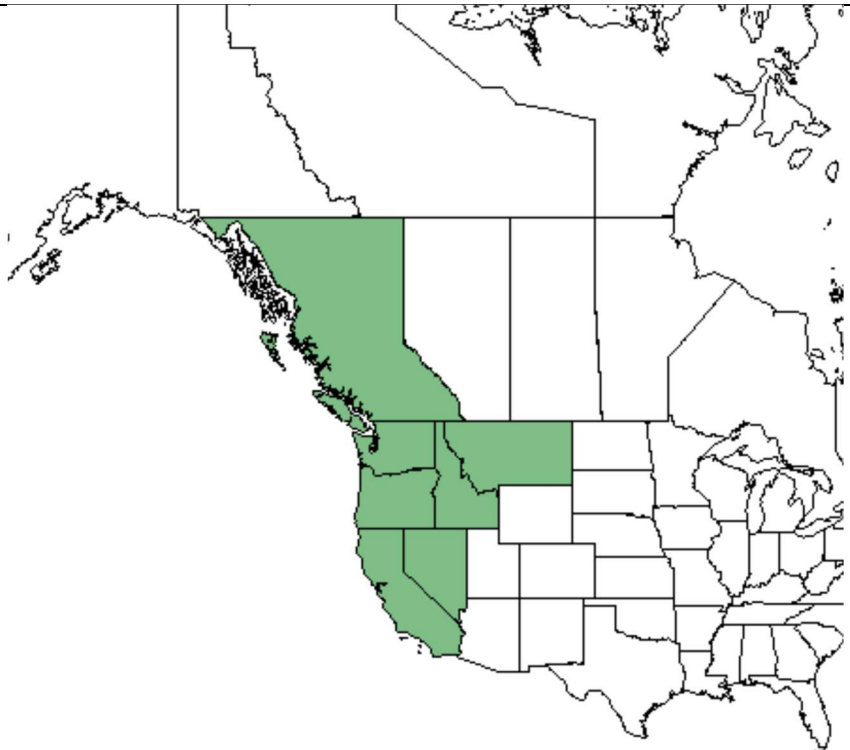


(Jensen, 2010).

TAXONOMY

Plant Family	
Scientific Name	Brassicaceae (PLANTS).
Common Name	Mustard family (TWC Staff, 2007)
Species Scientific Name	
Scientific Name	<i>Idahoia scapigera</i> (Hook.) A. Nelson & J. F. Macbr (PLANTS).
Varieties	N/A
Sub-species	N/A
Cultivar	N/A
Common Synonym(s)	N/A
Common Name(s)	Oldstem idahoa, Flat pod idahoa, scale-pod idahoa, pepperpod idahoa (Painter, 2016)
Species Code (as per USDA Plants database)	IDSC (PLANTS).

GENERAL INFORMATION

Geographical range	 <p>(PLANTS). Found mostly in Eastern side of Washington State (TWC Staff, 2007).</p>
Ecological distribution	Often found in dry areas such as volcanic flats and sagebrush slopes but sometimes in moist open meadows (Flora of North America). Treeless areas with less than 50 cm of soil over bedrock (Costanzo et al. 2011).
Climate and elevation range	300-1700 m elevation in moderately dry climates. (Flora of North America).
Local habitat and abundance	Found in open grasslands with moisture early in the growing season. Commonly associated with sagebrush. (TWC Staff, 2007).
Plant strategy type / successional stage	Seems to be first successional as it establishes in dry rocky soils (Flora of North America).
Plant characteristics	<i>Idahoia scapigera</i> is a small annual herb. It has leaves near the base and small white flowers emerge atop slim stems before changing to round, flat pods. (TWC Staff, 2007).
PROPAGATION DETAILS	
Ecotype	N/A
Propagation Goal	Plant
Propagation Method	Seed (Costanzo et al. 2011).
Product Type	Container (plug)
Stock Type	N/A
Time to Grow	1 year (annual) (TWC Staff, 2007).
Target Specifications	Roots fill plug

Propagule Collection Instructions	Flowers bloom feb – apr. (TWC Staff, 2007). Seeds are inside small fruiting bodies. (Flora of North America). Collect and dry seeds before sowing.
Propagule Processing/Propagule Characteristics	The seeds are 3-5 mm in diameter and coarsely reticulate (Flora of North America).
Pre-Planting Propagule Treatments	Use well drained seeding media to mimic the dry climate it naturally grows in (Flora of North America).
Growing Area Preparation / Annual Practices for Perennial Crops	Slender taproot, so probably small container will do with medium height to accommodate for taproot (E-Flora).
Establishment Phase Details	After planting, water well to mimic the moist beginning of growing season (TWC Staff, 2007)
Length of Establishment Phase	Unknown
Active Growth Phase	Growing season throughout summer – several months (Flora of North America).
Length of Active Growth Phase	Several Months (Flora of North America).
Hardening Phase	May not be necessary if plant is annual (Flora of North America).
Length of Hardening Phase	N/A
Harvesting, Storage and Shipping	Unknown
Length of Storage	Unknown
Guidelines for Outplanting / Performance on Typical Sites	Space at 1 km as that is how they are often found in the field (TWC Staff, 2007).
Other Comments	Little to no propagation data, more experiments are required for the most accurate protocol.

INFORMATION SOURCES

References	<p>Costanzo, Brenda et al. (2011). <i>Restoring British Columbia's Garry Oak Ecosystems: Principles and Practices</i>. Garry Oak Ecosystems Recovery Team (GOERT). Victoria, British Columbia, Canada.</p> <p>E-Flora BC. <i>E-Flora BC: Electronic Atlas of the Plants of British Columbia</i> [eflora.bc.ca]. Lab for Advanced Spatial Analysis, Department of Geography, University of British Columbia, Vancouver. [Accessed: 24 May 2020 5:54:37 PM]</p> <p>Flora of North America. <i>Idaho scapigera</i>. Vol 7, pg. 566. Accessed 20 May 2020. http://www.efloras.org/florataxon.aspx?flora_id=1&taxon_id=250095041</p> <p>Jensen, Allan. (2010). <i>Idaoa scapigera; Flatpod</i>. CalPhotos</p> <p>Painter, Elizabeth. (2016). <i>Common (vernacular) names applied to California vascular plants</i>. The Jepson Online Interchange California Floristics.</p> <p>"PLANTS Profile for <i>Idaho scapigera</i>" USDA</p>
------------	--

	<p>Plants. Accessed 20 May. 2020 < https://plants.sc.egov.usda.gov/core/profile?symbol=ACBL >. TWC Staff (2007). <i>Idaho scapigera</i>. Lady Bird Johnson Wildflower Center. Accessed 20 May. 2020<https://www.wildflower.org/plants/result.php?id_plant=IDSC>.</p>
Other Sources Consulted	<p>Calflora: Information on California plants for education, research and conservation, with data contributed by public and private institutions and individuals, including the Consortium of California Herbaria. [web application]. 2020. Berkeley, California: The Calflora Database [a non-profit organization]. Accessed 27 May 2020. Available: https://www.calflora.org/</p> <p>Encyclopedia of Life. <i>National Museum of Natural History</i>. Accessed 20 May 2020. < https://eol.org/pages/583873>.</p> <p>Ihsan A. Al-Shehbaz 2012, <i>Idaho scapigera</i>, in Jepson Flora Project (eds.) accessed on 26 May 2020. <i>Jepson eFlora</i>, /eflora/eflora_display.php?tid=28891.</p>
Protocol Author	Indigo Doll
Date Protocol Created or Updated	26/05/2020