

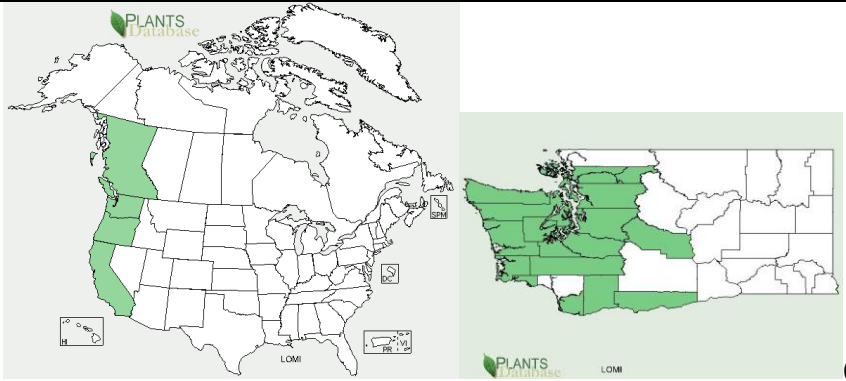
Plant Propagation Protocol for *Lotus micranthus*

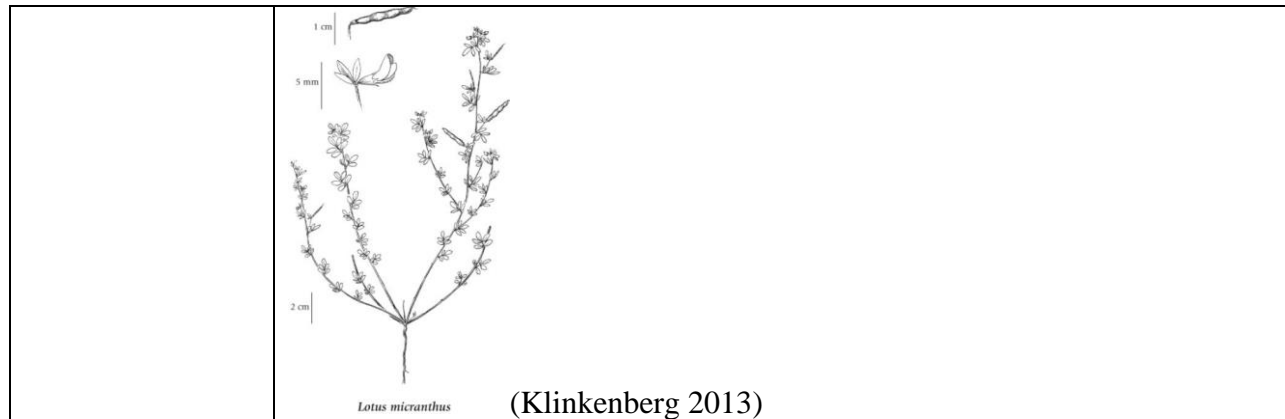
ESRM 412 – Native Plant Production

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



TAXONOMY	
Plant Family	
Scientific Name	Fabaceae
Common Name	Pea family
Species	
Scientific Name	
Scientific Name	Lotus micranthus
Varieties	None
Sub-species	None
Cultivar	none
Common Synonym(s)	Hosackia parviflora Benth.
Common Name(s)	Hill Lotus, SanDiego lotus, Small Flowered Trefoil, desert deervetch, small flower lotus (Calflora)

Species Code (as per USDA Plants database)	LOMI
GENERAL INFORMATION	
Geographical range (distribution maps for North America and Washington state)	 <p>(USDA database)</p>
Ecological distribution (ecosystems it occurs in, etc)	Abundant. Coastal bluffs to oak/pine or fir woodland, open or disturbed area (Jepson flora project)
Climate and elevation range	<1300 m. (Jepson flora project) Cool mesothermal climate (Klinkenberg 2013)
Local habitat and abundance (may include commonly associated species)	Located in almost all western Washington counties. (USDA database) In the Columbia River Gorge, it is commonly found in grasslands and open woods. (Slichter)
Plant strategy type / successional stage (stress-tolerator, competitor, weedy/colonizer, seral, late successional)	Drought Tolerant. (Heritage)—NOTE: Information from a wholesale propagator, may not be 100% reliable
Plant characteristics (life form (shrub, grass, forb), longevity, key characteristics, etc.)	Dicot, annual herb. (Calflora) Seeds: few-several. Fruit: dehiscent, 1.5-2.5cm, oblong. Flower: Calyx 1.5-2.5 m, pink or salmon color, not opening. Leaf: flat, blade-like (Jepson flora project)



PROPAGATION DETAILS

Ecotype	No Information Found
Propagation Goal	Seeds (Jepson flora project)
Propagation Method	Seed (Heritage) NOTE: Information from a wholesale propagator, may not be 100% reliable
Product Type	No Information Found
Stock Type	No Information Found
Time to Grow	No Information Found
Target Specifications	No Information Found
Propagule Collection Instructions	No Information Found
Propagule Processing/Propagation Characteristics	No Information Found
Pre-Planting Propagule Treatments	No Information Found
Growing Area Preparation / Annual Practices for Perennial Crops	Does best in full sun and without competing vegetation (Heritage) NOTE: Information from a wholesale propagator, may not be 100% reliable
Establishment Phase Details	No Information Found
Length of Establishment Phase	No Information Found
Active Growth Phase	No Information Found
Length of Active Growth Phase	No Information Found

Hardening Phase	No Information Found
Length of Hardening Phase	No Information Found
Harvesting, Storage and Shipping	No Information Found
Length of Storage	No Information Found
Guidelines for Outplanting / Performance on Typical Sites	No Information Found
Other Comments	Very little is known about this species, would suggest performing own propagation experiments!
INFORMATION SOURCES	
References	<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 Calif. Herbaria. [web application]. 2014. Berkeley, California: The Calflora Database [a non-profit organization]. Available: http://www.calflora.org/ (Accessed: May 17, 2014).</p> <p><i>Heritage</i>. 2014. Web. 18 May 2014. <http://www.heritageseedlings.com/page_448_52/lotus-micranthus>.</p> <p>"Jepson Flora Project." University of California, 1993. Web. 17 May 2014. <http://ucjeps.berkeley.edu/cgi-bin/get_JM_treatment.pl?3691,3958,3995>.</p> <p>Klinkenberg, Brian. (Editor) 2013. <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:5/17/2014 10:46:51PM] <http://linnet.geog.ubc.ca/Atlas/Atlas.aspx?sciname=Lotus%20micranthus></p> <p>"Plants Profile Lotus Micranthus." <i>USDA Database</i>. Web. 16 May 2014. <http://plants.usda.gov/core/profile?symbol=LOMI></p> <p>Paul. "Lotus Micranthus." <i>The Plant List</i>. 2011. Web. 15 May 2014. <http://science.halleyhosting.com/nature/gorge/5petal/pea/lotus/smdeer.htm></p>
Other Sources Consulted	<p><i>Evergreen State College</i>. 22 May 2012. Web. 19 May 2014. <http://wikis.evergreen.edu/pugetprairieplants/index.php/Lotus_micranthus#Description>.</p> <p>Toogood, Alan R. <i>Plant Propagation Made Easy</i>. Portland, Or.: Timber, 1994. Print.</p>

	<p>Toogood, Alan R. <i>Plant Propagation</i>. New York: DK Pub., 1999. Print.</p> <p>Thompson, Peter. <i>The Propagator's Handbook: Fifty Foolproof Recipes, Hundreds of Plants for Your Garden</i>. Newton Abbot, Devon: David & Charles, 1996. Print.</p> <p><i>Native American Ethnobotany</i>. University of Michigan-Dearborn. Web. 14 May 2014. <http://herb.umd.umich.edu/></p> <p>"Lotus Micranthus Benth." <i>Herbarium</i>. University of Nevada-Reno. Web. 15 May 2014. <http://herb.umd.umich.edu/>.</p> <p>"Hosackia Parviflorus." <i>The Plant List</i>. 2013. Web. 14 May 2014. <http://www.theplantlist.org/tpl1.1/record/ild-22137>.</p>
Protocol Author	Lauren Kmiechick
Date Protocol Created or Updated	5/14/2014