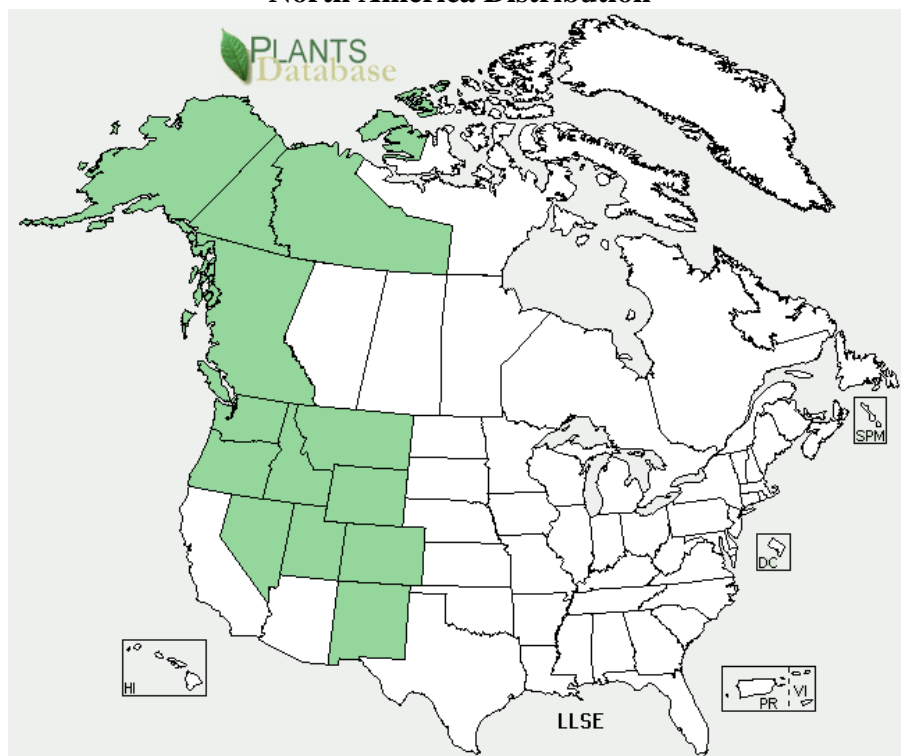
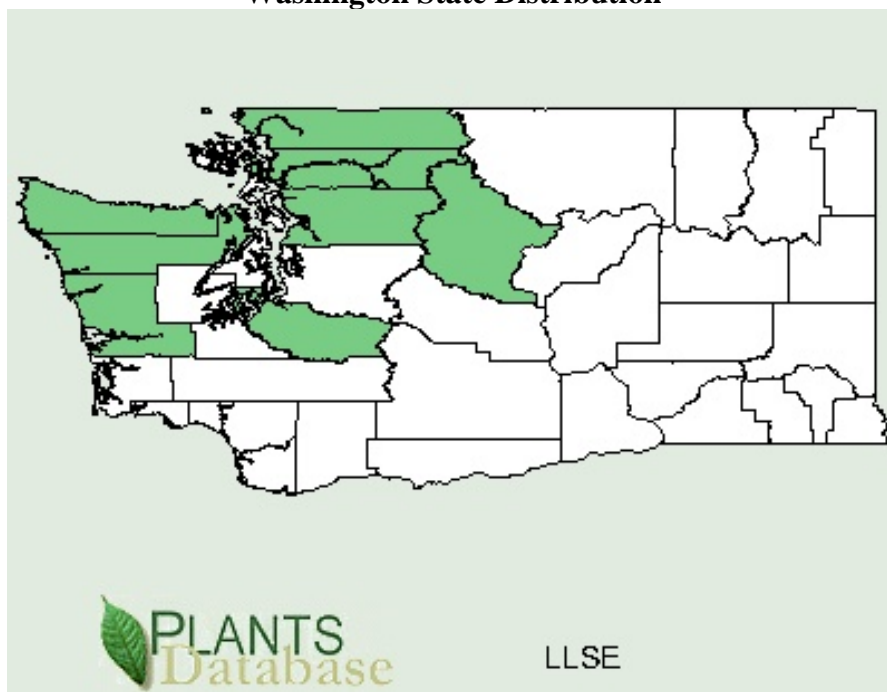


Plant Propagation Protocol for [*Lloydia serotina* (L.) Salisb. ex Rchb.]
ESRM 412 – Native Plant Production

North America Distribution



Washington State Distribution



TAXONOMY			
Family Names			
Family Scientific Name:	Liliaceae		
Family Common Name:	Lily		
Scientific Names			
Genus:	Lloydia		
Species:	serotina		
Species Authority:	Salisb. ex Rchb.		
Variety:	flava,		
Sub-species:	serotina		
Cultivar:			
Authority for Variety/Sub-species:	(Calder & Roy L. Taylor) B. Boivin Salisb. ex Rchb. (5)		
Common Synonym(s) (include full scientific names (e.g., Elymus glaucus Buckley), including variety or subspecies information)	Lloydia serotina (L.) Salisb. ex Rchb. var. flava (Calder & Roy L. Taylor) B. Boivin (5) Lloydia serotina (L.) Salisb. ex Rchb. var. serotina (5)		
Common Name(s):	Common alplily, Mountain spiderwort, Snowdon lily. (1)		
Species Code (as per USDA Plants database):	LLSE		
GENERAL INFORMATION			
Geographical range (distribution maps for North America and Washington state)	USA (AK, CO, ID, MT, NM, NV, OR, UT, WA, WY), CAN (BC, NT, YT) WA State: see state map above.		
Ecological distribution (ecosystems it occurs in, etc):	Circumboreal species: boreal regions of North America and Eurasia. (2,3)		
Climate and elevation range	Average (6) (meters)	Minimum (6) (meters)	Maximum (6) (meters)
	2012	1890	2135
Local habitat and abundance; may include commonly associated species	Mesic rocky slopes, rock crevices and gravelly meadows in the upper subalpine and alpine zones. (6)		
Plant strategy type / successional stage (stress-tolerator, competitor, weedy/colonizer, seral, late successional)	May easily be distributed by the wind on account of their flatness. (7)		
Plant characteristics (life form (shrub, grass, forb), longevity, key characteristics, etc)	Forb/herb. (5)		

PROPAGATION DETAILS	
Ecotype (this is meant primarily for experimentally derived protocols, and is a description of where the seed that was tested came from):	Wales, Niwot Ridge and the Tatra Mountains in Poland. (8)
Propagation Goal (Options: Plants, Cuttings, Seeds, Bulbs, Somatic Embryos, and/or Other Propagules):	Plants. (2)
Propagation Method (Options: Seed or Vegetative):	Seed. (2)
Product Type (options: Container (plug), Bareroot (field grown), Plug + (container-field grown hybrids, and/or Propagules (seeds, cuttings, poles, etc.))	Container (plug). (2)
Stock Type:	No Information available.
Time to Grow (from seeding until plants are ready to be outplanted):	No Information available.
Target Specifications (size or characteristics of target plants to be produced):	No Information available.
Propagule Collection (how, when, etc):	No Information available.
Propagule Processing/Propagule Characteristics (including seed density (# per pound), seed longevity, etc):	No Information available.
Pre-Planting Propagule Treatments (cleaning, dormancy treatments, etc):	No Information available.
Growing Area Preparation / Annual Practices for Perennial Crops (growing media, type and size of containers, etc):	No Information available.
Establishment Phase (from seeding to germination):	No Information available.
Length of Establishment Phase:	2 days @ 5, 10 and 19 C, all with 16-h Photoperiods. (8)
Active Growth Phase (from germination until plants are no longer actively growing):	No Information available
Length of Active Growth Phase:	No Information available

No Information available	No Information available.
Length of Hardening Phase:	No Information available.
Harvesting, Storage and Shipping (of seedlings):	No Information available.
Length of Storage (of seedlings, between nursery and outplanting):	No Information available.
Guidelines for Outplanting / Performance on Typical Sites (eg, percent survival, height or diameter growth, elapsed time before flowering):	No Information available.
Other Comments (including collection restrictions or guidelines, if available):	<i>Lloydia serotina</i> is an endanger species in British Isles is a rare and protected species. While research is ongoing to help conserve these species. (9)

INFORMATION SOURCES

References (full citations):	<ol style="list-style-type: none"> 1. "PLANTS Profile ." <i>USDA</i>. 11 May 2009 <http://plants.usda.gov/java/profile?symbol=LLSE>. 2. "Lloydia serotina." <i>Wikipedia</i>. 12 May 2009 <http://en.wikipedia.org/wiki/Lloydia_serotina>. 3. "Protocol Information." <i>nativeplants</i>. 12 May 2009 <http://nativeplants.for.uidaho.edu/network/view.asp?protocol_id=1549>. 4. "circumboreal." <i>answers</i>. 12 May 2009 <http://www.answers.com/topic/circumboreal?method=26&initiator=FFANS>. 5. "Lloydia serotina (Alp Lily)." <i>swcoloradowildflowers</i>. 12 May 2009 <http://www.swcoloradowildflowers.com/White%20Enlarged%20Photo%20Pages/lloydia%20serotina.htm>. 6. "Classification." <i>USDA</i>. 11 May 2009 <http://plants.usda.gov/java/profile?symbol=LLSE>. 7. "Lloydia serotina var. serotina (L.) Reichenb.." <i>E-Flora BC: Electronic Atlas of the Plants of British Columbia</i>. 12 May 2009 <http://linnet.geog.ubc.ca/Atlas/Atlas.aspx?sciname=Lloydia%20serotina%20var.%20serotina>. 8. <i>Bulletin of the Torrey Botanical Club</i>. Torrey Botanical Club., 1914. Print.
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	<p>9. Jones B., Gliddon C., Good J.E.G. The conservation of variation in geographically peripheral populations: <i>Lloydia serotina</i> (Liliaceae) in Britain (2001) <i>Biological Conservation</i>, 101 (2), pp. 147-156.</p>
Other Sources Consulted (but that contained no pertinent information) (full citations):	<p>"aosaseed." Web. May 10 2009. <http://www.aosaseed.com/docs/070426_Species_wo_AOSA_list_plus_adds.pdf>.</p> <p>"Native Plant List." <i>King County</i>. May 10 2009 <http://green.kingcounty.gov/GoNative/Plant.aspx?Act=list>.</p> <p>"Native Plants." <i>Washington State University</i>. May 10 2009 <http://cahedb.wsu.edu/nativePlant/scripts/webShowClassification.asp>.</p> <p>"Roadside Use of Native Plants." <i>U.S. Department of Transportation</i>. May 10 2009 <http://www.fhwa.dot.gov/environment/rdsduse/wa.htm>.</p> <p>"WTU Image Collection: Plants of Washington Lichens of Washington." <i>The Burke Museum</i>. May 10 2009 <http://biology.burke.washington.edu/herbarium/imagecollection.php>.</p> <p>Jones, Gliddon., "Reproductive biology and genetic structure in <i>Lloydia serotina</i>." <i>Plant Ecology</i> Volume 141, Numbers 1-2 / April, 1999 November 30, 2004 151-161. Web.9 May 2009. <http://www.springerlink.com.offcampus.lib.washington.edu/content/g8466q677182u08j/fulltext.pdf>.</p> <p><i>MsK Rare Plant Nursery</i>. 28 Apr 2009 <http://www.msknursery.com/index.htm>.</p> <p><i>Native Seed Network</i>. 9 May 2009 <http://www.nativeseednetwork.org/article_view?id=28>.</p> <p>Nature. 13 May 2009 <http://books.google.com.offcampus.lib.washington.edu/books?id=ITUVAAAAYAAJ&pg=PA115&dq=Lloydia+serotina&lr=#PPA115,M1>.</p> <p><i>Restoration, Nurseries and Gentic Resources</i>. 9 May 2009. <http://www.rngr.net/Publications/fnn/citations/importedz/FNNCitation_10262/view>.</p>
Protocol Author (First and last name):	Alex Win
Date Protocol	May 13, 2009

Created or Updated (MM/DD/Y Y):	
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