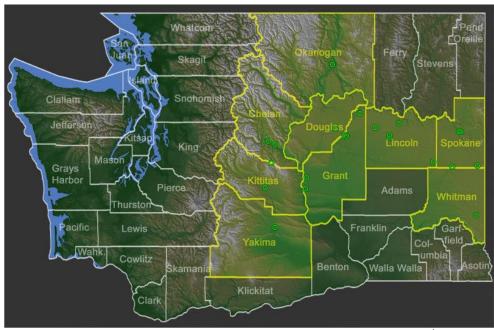
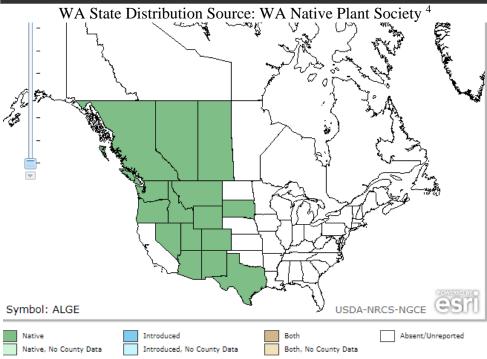
Plant Propagation Protocol for Allium Geyeri

ESRM 412 – Native Plant Production

Protocol URL: https://courses.washington.edu/esrm412/protocols/[USDASpeciesCode.pdf]





USA Distribution Source: USDA 1

TAXONOMY		
Plant Family		

Scientific Name	Liliceae ¹		
Common Name	Lily Family ¹		
Species Scientific Name	· · · ·		
Scientific Name	Allium geyeri ¹		
Varieties	Allium <i>geyeri</i> S. Watson var. chatterleyi S.L. Welsh –		
	Geyer's onion		
	Allium <i>geyeri</i> S. Watson var. geyeri – Geyer's onion		
	Allium <i>geyeri</i> S. Watson var. tenerum M.E. Jones –		
	bulbil onion ¹		
Sub-species	N/A		
Cultivar	N/A		
Common Synonym(s)	11/11		
Common Synonym(s)	Allium dictyotum Greene		
	Allium funiculosum A. Nels.		
	Allium <i>pikeanum</i> Rydb. ⁴		
Common Name(s)	This is processed by the control of		
Species Code (as per USDA Plants	ALGE ¹		
database)			
GENERAL INFORMATION			
Geographical range	In Washington State, Geyer's Onion ranges east of the		
	Cascade Mountains. ⁴		
	In North America, Geyer's Onion has a widespread		
	distribution from south-western Canada region, to		
	southern US, Texas. It ranges from the mid-west plains		
	to the west coast states. ²		
D 1 1 1 1 2 2 2	Maps above.		
Ecological distribution	Found in low meadows, grasslands near streams and wetlands. ⁵		
Climate and elevation range	Prairie-level to mid-mountain ⁵		
Local habitat and abundance	It is considered least concerned in US ²		
Plant strategy type / successional	Prefers moist, well-drained soil in a sunny area.		
stage	Is shade-intolerant. Bulbs cannot over-winter in wet		
Di e i i e	conditions. 5		
Plant characteristics	Geyer's Onion is an edible perennial bulbous plant.		
	The bulbs remains dormant in the winter, and the plant		
DDOD	sprout and produce flowers between April and May. ²		
	AGATION DETAILS N/A		
Ecotype Propagation Goal	Seeds or bulb division ⁵		
Propagation Method	Seeds of build division Seeds		
Product Type	Propagule		
Stock Type	containers		
Time to Grow (from seeding until	Collect seeds in summer to fall, sow in spring,		
plants are ready to be outplanted)	greenhouse store in the first winter, and plant matures		
printed are ready to be outplained)	5 white in the first white, and plant matures		

	in the following growing season.	
Target Specifications	Should be vigorous, healthy second year plants. In	
	cones or ½-1 gallon pots.	
Propagule Collection Instructions	Collect matured, dried flower heads after blooming in	
(how, when, etc)	April-May. Separate black, shiny seeds from flower	
	heads. ⁵	
Propagule Processing/Propagule	Cleaned seeds should be stored in 33-38 Fahrenheit	
Characteristics	cool, dry conditions in cloth or paper bag. ³	
	Number of Seeds per Pound: 169,250. ³	
Pre-Planting Propagule Treatments	Plant is inferred to be physiologically dormant.	
	Cold stratification for over winter recommended. ³	
	Stratify seeds in a mesh bag, cover in squeezed moist	
	peat and cold stratify 3 months prior to sowing. Check	
	weekly for signs of mold and fungi. Sanitize containers	
	and tools in a bleach solution if necessary.	
Growing Area Preparation / Annual	None specific.	
Practices for Perennial Crops	Sow in containers, cones recommended.	
Establishment Phase Details	Soak seeds in water 24 hours prior to sowing in March.	
1	Prepare clean cones and fill with a fine bark	
	mulch/compost media. Adding perlites or other	
	drainage pellets recommended. Sow 2-3 seeds per cone	
	at around 1 inch depth. Water well, and place in a	
	sunny, unshaded area.	
Length of Establishment Phase	Seeds should germinate within a few weeks to a month	
	of sowing.	
Active Growth Phase	Allow germinates to access full sun. Thin seedlings if	
	too crowded. Water to keep media moist but do not	
	over-water.	
Length of Active Growth Phase	3-4 months, or throughout the growing season	
Hardening Phase	Plants are not cold-wet tolerate if propagating in the	
	west side of the cascades.	
Length of Hardening Phase	N/A	
Harvesting, Storage and Shipping	When roots are well-established and fills the cone,	
	transfer plant into a larger pot. Seedlings will increase	
	in size and flower when they mature. After plant goes	
	dormant in fall, inspect for bulbs.	
	Bulbs can be stored in dry, cool area without soil.	
Length of Storage	Over dormant season. Do not store bulbs once green	
	shoots are sprouting. Plant as soon as possible.	
Guidelines for Outplanting /	Unknown	
Performance on Typical Sites		
Other Comments	Toxic in large amounts and to dogs ⁵	
INFORMATION SOURCES		
References	See Below	
Other Sources Consulted		
Protocol Author	Aileen Liu	

Date Protocol Created or Updated Created: 04/25/2018

References:

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- 3. Barner, J. (n.d.). Native Plant Network. Retrieved April 21, 2018, from https://npn.rngr.net/renderNPNProtocolDetails?selectedProtocolIds=liliaceae-allium-3307
- Knoke, D. (n.d.). Allium Geyeri. Retrieved April 22, 2018, from http://biology.burke.washington.edu/herbarium/imagecollection.php?Genus=Allium&Species=g eyeri
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