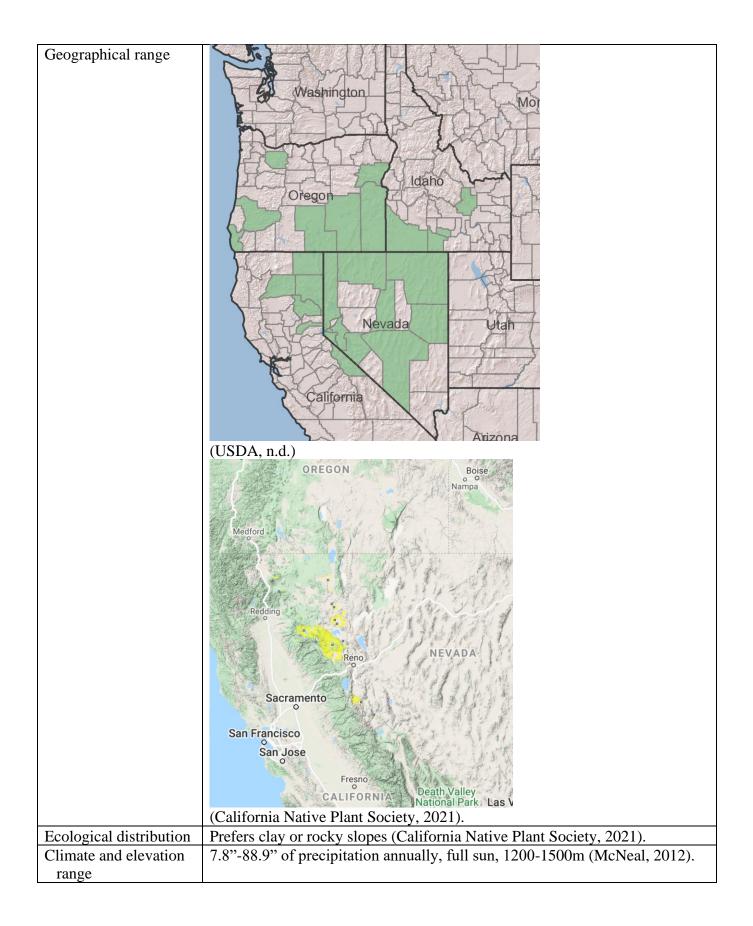
Plant Propagation Protocol for Allium anceps ESRM 412 – Native Plant Production URL: <u>https://courses.washington.edu/esrm412/protocols/2021/ALAN.pdf</u>



(California Native Plant Society, 2021)

	TAXONOMY	
Plant Family		
Scientific Name	Liliaceae (USDA, n.d.)	
Common Name	Lily	
Species Scientific		
Name		
Scientific Name	Allium anceps Kellogg (USDA, n.d.)	
Varieties	No varieties recognized.	
Sub-species	No sub-species recognized.	
Cultivar	No information available.	
Common Synonym(s)	Kellogg's onion, twin leaved onion (California Native Plant Society, 2021)	
Common Name(s)	Twinleaf onion (USDA, n.d.)	
Species Code (as per	ALAN (USDA, n.d.)	
USDA Plants		
database)		
GENERAL INFORMATION		



Local habitat and	Prefers full sun and slow draining soil. Commonly associates with Artemisia
abundance	<i>tridentata, Juniperus occidentalis, Scutellaria nana</i> , and <i>Lupinus uncialis</i> (McNeal, n.d.). Grows densely and pushes out other vegetation (California Native Plant Society, 2021).
Plant strategy type / successional stage	Stress tolerant, early-blooming (visible right after March) (McNeal, n.d.).
Plant characteristics	Perennial herb, grows up to 10cm long, 2 flat and narrow leaves that appear in late winter. Flower is pink/purple and grows on a separate stalk during the middle of spring. Bulb is white with yellow/brown husk and 1cm in diameter. In early summer, the portion of the plant above ground dies and plant is not easily visible for the rest of the year (California Native Plant Society, 2021).
	PROPAGATION DETAILS
Ecotype	No information available.
Propagation Goal	Bulbs (General information for <i>Allium</i>) (Skinner, 2006)
Propagation Method	Seed (General information for <i>Allium</i>) (Skinner, 2006)
Product Type	Propagules (some <i>Allium</i> species produce bulbils, but no information confirms if <i>Allium anceps</i> do) (Pacific Bulb Society, 2020).
Stock Type	Potted nursery stock (Leigh et al, 2006)
Time to Grow	Several years (General information for Allium) (Crocus, 2021)
Target Specifications	First year bulb (Skinner, 2006). 2-5mm bulb size (Leigh <i>et al</i> , 2006) Root system should be well-established (Watson, n.d.). (General information for <i>Allium</i>).
Propagule Collection Instructions	Collect from dry flower heads (Crocus, 2021)
Propagule Processing/Propagule Characteristics	Seeds last 1 year (Mahaney, 2014).
Pre-Planting Propagule Treatments	Separate seeds from detritus by hand or by screening. Allow seeds to air dry for a few days before storage (Seed Savers Exchange, 2017). Store in paper bags at room temperature until cleaned. (General information for <i>Allium</i>) (Leigh <i>et al</i> , 2006).
Growing Area Preparation / Annual Practices for Perennial Crops	Sow seeds into trays of gritty compost and cover seeds with 5mm of grit. Place containers outside in shade (General information for <i>Allium</i>) (Royal Horticultural Society, 2021).
Establishment Phase Details	No information available.
Length of Establishment Phase	12 weeks to a year (General information for Allium) (Crocus, 2021)
Active Growth Phase	Observed after fall rains until spring/early summer (Leigh <i>et al</i> , 2006). During peak growth, dry matter accumulates at a rate of 100-200lbs/acre/day if planted in the field. (General information for <i>Allium</i>) (Grundberg <i>et al</i> , 2018).
Length of Active Growth Phase	6-8 months (Leigh <i>et al</i> , 2006).

Hardening Phase	No information available.
Length of Hardening	No information available.
Phase	
Harvesting, Storage	After plants bloom and seed heads are drying out, put heads in paper bag.
and Shipping	Shake the paper bag to free the seeds. (General information for <i>Allium</i>) (Seed
and Smpping	Savers, 2017).
Length of Storage	Seeds can be stored in a cool, dry place for up to two years. (General
6	information for Allium) (Seed Savers, 2017).
Guidelines for	If planted in containers, must make sure that plants do not dry out during
Outplanting /	spring since flower buds will fail to open if they are dry (General information
Performance on	for <i>Allium</i>) (Crocus, 2021).
Typical Sites	
Other Comments	Information on <i>Allium anceps</i> is limited, so most information is for <i>Allium</i>
	species in general.
	INFORMATION SOURCES
References	California Native Plant Society. (2021). Twin leaved onion:
References	Allium anceps. California Native Plant Society.
	https://calscape.org/Allium-anceps-()
	Crocus. (2021). <i>Alliums</i> . Crocus.
	https://www.crocus.co.uk/features/_/articleid.955/
	Grundberg et al. (2018). Growing Alliums for Storage and Long Term
	Sales Resource Booklet. Cornell Cooperative Extension.
	https://rvpadmin.cce.cornell.edu/uploads/doc_646.pdf
	Leigh <i>et al.</i> (2006). Propagation Protocol for production of Container
	(plug) Allium amplectens bulbs. Native Plant Network Propagation
	Protocol Database. USDA.
	https://npn.rngr.net/npn/propagation/protocols/renderNPNProtocolDetails-
	PrintFormat
	Mahaney, E. (2014). Seed Viability. Under the Solano Sun.
	https://ucanr.edu/blogs/blogcore/postdetail.cfm?postnum=12950
	McNeal, D. (2012). Allium anceps. The Jepson Herbarium.
	University of California, Berkeley.
	https://ucjeps.berkeley.edu/eflora/eflora_display.php?tid=12510
	McNeal, D. (n.d.) Report on Allium: Columbia Basin Scientific
	Assessment Report. https://www.fs.fed.us/r6/icbemp/science/mcneal.pdf
	Pacific Bulb Society. (2020). Allium. Pacific Bulb Society.
	https://www.pacificbulbsociety.org/pbswiki/index.php/Allium
	Royal Horticultural Society. (2021). How to grow Alliums. The Royal
	Horticultural Society.
	https://www.rhs.org.uk/plants/popular/allium/growing-guide
	Seed Savers Exchange. (2017). How to grow onions. Seed Savers
	Exchange. https://www.seedsavers.org/site/pdf/grow-save-onions.pdf
	Skinner, D. (2004). Propagation protocol for production of Container
	(plug) Allium acuminatum Hook bulbs. Native Plant Network
	Propagation Protocol Database. USDA.

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