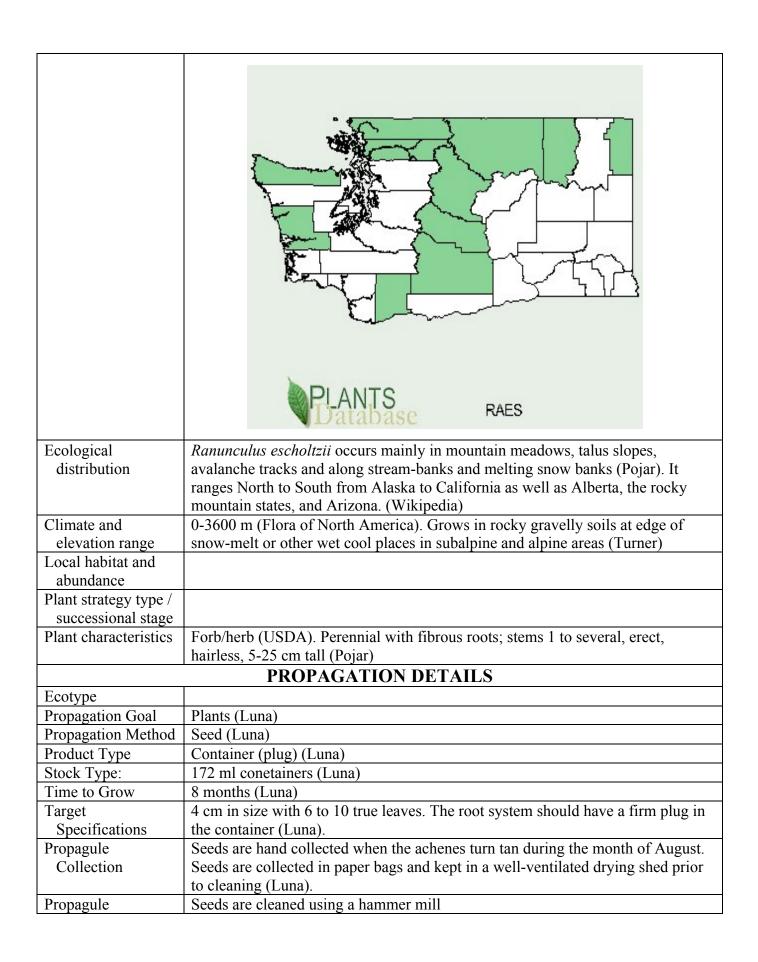
Plant Propagation Protocol for Ranunculus escholtzii Schltdl.

ESRM 412 – Native Plant Production

TAXONOMY		
Family Names		
Family Scientific	Ranunculaceae	
Name:		
Family Common	Buttercup or crowfoot	
Name:		
Scientific Names		
Genus:	Ranunculus	
Species:	escholtzii	
Species Authority:	Schtdl.	
Variety:		
Sub-species:		
Cultivar:		
Authority for		
Variety/Sub-species:		
Common Synonym(s)		
Common Name(s):	Eschscholtz's buttercup, Subalpine buttercup, Mountain Buttercup, Snowpatch	
	Buttercup	
Species Code	RAES	
	GENERAL INFORMATION	
Geographical range		
	PLANTS E RRES RRES	



· _/D	0 11 '. ' 1	
Processing/Propag	Seed longevity is unknown.	
ule Characteristics	Seed dormancy is classified as physiological dormancy.	
	Seeds/Kg: 3,500,000/kg	
	% Purity: 100%	
	% Germination: 50% (Luna)	
Pre-Planting	5-month outdoor cold moist stratification. Germination occurs in early spring	
Propagule	after snow melt under fluctuating temperatures (Luna)	
Treatments		
Growing Area	Conetainers are filled and sown in late fall and irrigated thoroughly prior to	
Preparation /	winter stratification.	
Annual Practices	Seedlings germinate in spring under fluctuating outdoor temperatures and are	
for Perennial	grown under full sun exposure. Seedlings should be irrigated with an automatic	
Crops	irrigation system in early morning until containers are thoroughly saturated.	
Сторь	Average growing season is from late April after snowmelt until October 15 th	
	(Luna)	
Establishment Phase	Seedlings are kept moist during germination. Seedlings emerge in early spring	
Establishment I hase	after snowmelt during cool spring temperatures (Luna)	
I amostle of		
Length of Establishment	4 weeks (Luna)	
Phase:		
Active Growth	Once seedlings are established, plants develop rapid shoot and root growth 2 to 4	
Phase	weeks following germination. Seedlings have 4 to 6 true leaves 3 weeks after	
	germination. Some individuals were flowering 8 weeks after germination (Luna)	
Length of Active	10 weeks (Luna)	
Growth Phase:		
Hardening Phase	Irrigation is gradually reduced from September through October (Luna)	
Length of	~4 weeks (Luna)	
Hardening Phase:		
Harvesting, Storage	Total Time To Harvest: 8 months	
and Shipping	Harvest Date: August	
	Storage Conditions: Overwinter in outdoor nursery under insulating foam cover	
	and snow (Luna)	
Length of Storage	5 months (Luna)	
Guidelines for		
Outplanting /		
Performance on		
Typical Sites		
Other Comments	R. eschscholtzii is a dark requiring species; No germination occurred when seeds	
	were surface sown (Luna)	
INFORMATION SOURCES		
References (full	Luna, Tara; Evans, Jeff.; Wick, Dale. 2008. Propagation protocol for production	
citations):	of container Ranunculus eschscholtzii Schlecht. plants (172 ml conetainers);	
	USDI NPS - Glacier National Park, West Glacier, Montana. In: Native Plant	
	Network. URL: http://www.nativeplantnetwork.org (accessed 16 May 2011).	
	Moscow (ID): University of Idaho, College of Natural Resources, Forest	
	Research Nursery.	

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Other Sources Consulted (but that contained no pertinent information) (full citations):	Pojar, Jim, A. MacKinnon, and Paul B. Alaback. Plants of the Pacific Northwest Coast: Washington, Oregon, British Columbia & Alaska. Redmond, WA: Lone Pine Pub., 1994. Print. "Ranunclulus eschscholtzii Schtdl." USDA Plants Database. United States Department of Agriculture Natural Resource Conservation Service. Web. 16 May 2011. http://plants.usda.gov/java/profile?symbol=RAES. "Ranunculus Eschscholtzii." Flora of North America. EFloras.org. Web. 18 May 2011. http://www.efloras.org "Ranunculus Eschscholtzii." Wikipedia, the Free Encyclopedia. Web. 16 May 2011. http://en.wikipedia.org/wiki/Ranunculus_eschscholtzii. Turner, Mark, and Phyllis Gustafson. Wildflowers of the Pacific Northwest. Portland: Timber, 2006. Print. Kozloff, Eugene N. Plants of Western Oregon, Washington & British Columbia. Portland, Or.: Timber, 2005. Print. Niehaus, Theodore F., and Charles L. Ripper. A Field Guide to Pacific States Wildflowers: Field Marks of Species Found in Washington, Oregon, California, and Adjacent Areas: a Visual Approach Arranged by Color, Form, and Detail. Boston: Houghton Mifflin, 1976. Print. Schofield, Janice J., and Richard W. Tyler. Discovering Wild Plants: Alaska, Western Canada, the Northwest. Anchorage: Alaska Northwest, 1989. Print. "Tropicos Name - Ranunculus Eschscholtzii Var. Eschscholtzii." Tropicos - Home. Web. 17 May 2011. http://www.tropicos.org/Name/27101471. "WTU Herbarium Image Collection - Burke Museum." ELWHA RIVER VALLEY BIODIVERSITY. Web. 18 May 2011. http://biology.burke.washington.edu/herbarium/imagecollection.php?Genus=Ranunculus.
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