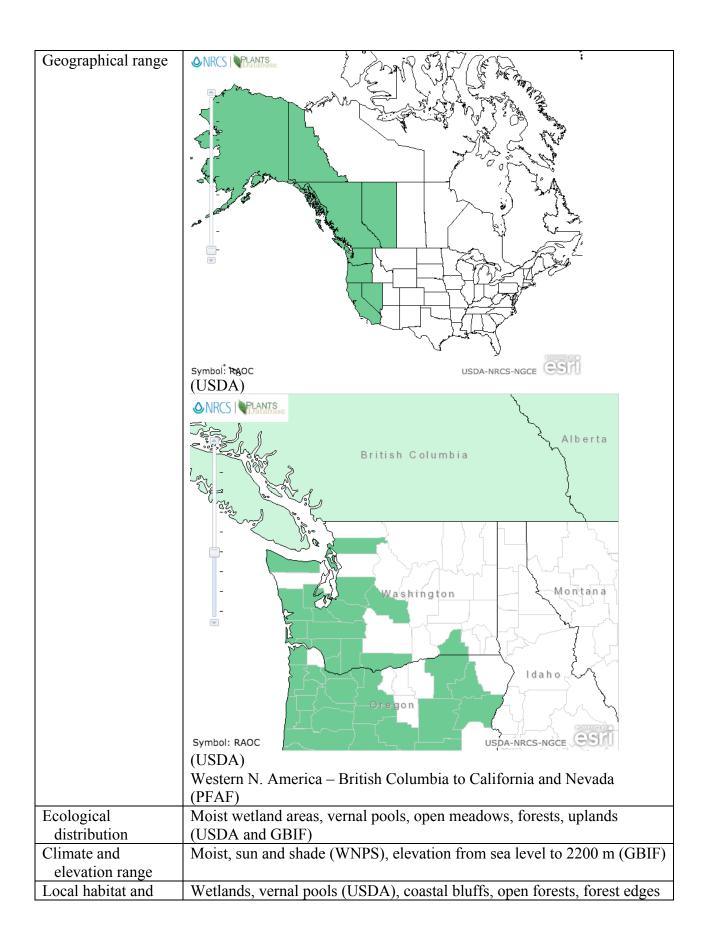
## Plant Propagation Protocol for Ranunculus occidentalis Nutt.

ESRM 412 – Native Plant Production

 $Protocol\ URL:\ https://courses.washington.edu/esrm412/protocols/RAOC.pdf$ 

TAXONOMY		
Plant Family	Ranunculaceae (commonly known as crowfoot or buttercup	
	family) (USDA)	
Scientific Name	Ranunculus occidentalis (USDA)	
Common Name	Western buttercup, western field buttercup (USDA)	
Species Scientific		
Name		
Scientific Name	Ranunculus occidentalis Nutt. (PFAF)	
Varieties	Ranunculus occidentalis var. brevistylis Greene	
	Ranunculus occidentalis var. dissectus Henderson	
	Ranunculus occidentalis var. hexasepalus Benson	
	Ranunculus occidentalis var. howellii Greene	
	Ranunculus occidentalis var. nelsonii Benson	
	Ranunculus occidentalis var. ultramontanus Greene	
	(Torrey and Gray and Calflora)	
Sub-species	None found (USDA and Torrey and Gray)	
Cultivar	None found	
Common		
Synonym(s)		
Common Name(s)	Western buttercup (WNPS)	
Species Code (as	RAOC (USDA)	
per USDA Plants		
database)		
GENERAL INFORMATION		



abundance	or clearings, pastures of fields, meadows or grassy areas, nutrient rich, moist soil (WNPS)	
Plant strategy type	Perennial, mid successional until canopies close (Smith), early blooming	
successional stage	(USDA), early seral, herbaceous and grassy communities (Klinka)	
Plant characteristics	Forb, perennial, flowers from May to July, hermaphroditic, insect-	
	pollinated flowers (PFAF)	
PROPAGATION DETAILS		
Ecotype	Seeds harvested from mature plants, dried thoroughly (USDA)	
Propagation Goal	Plants	
Propagation Method	Seed	
Product Type	Container	
Stock Type	Plug	
Time to Grow	One growing season, germination should occur 5 to 6 weeks after sowing and plants will produce seeds after one winter of growth (USDA)	
Target	and plants will produce seeds after one willter of growth (CSE11)	
Specifications		
Propagule	Late summer, early fall, can be done by hand or using a flail vacuum type	
Collection	seed strippter (USDA)	
Instructions		
Propagule	Average seed yields at the Corvallis Plant Materials Center are from 60 to	
Processing/Propag	80 pounds per acre using weed fabric (USDA), approximately 240,000	
ule Characteristics	seeds per pound (OFS)	
Pre-Planting	Seeds can be cleaned easily using an air screen machine (USDA)	
Propagule		
Treatments		
Growing Area	Moist soil is preferred, it will tolerate all soil types and a range of pH	
Preparation /	values (USDA)	
Annual Practices		
for Perennial		
Crops		
Establishment Phase	Seeds germinate at 50 to 60 degrees Fahrenheit, can be directly sown in	
Details	the fall and will grow throughout winter (USDA)	
Length of	1 growing season	
Establishment		
Phase		
Active Growth		
Phase		
Length of Active		
Growth Phase		
Hardening Phase	Will go dormant in the summer after setting seed and re-emerge in fall	
T 41 C	after first rains (USDA)	
Length of	From seed setting in summer until fall after first rains (USDA)	
Hardening Phase		
Harvesting, Storage	Store seeds in cool, dry place (Smith)	
and Shipping		

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Length of Storage		
Guidelines for		
Outplanting /		
Performance on		
Typical Sites		
Other Comments		
INFORMATION SOURCES		
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Other Sources	Washington State Department of Natural Resources.	
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	2016.	
Protocol Author	Rylie Robles	
Date Protocol	04/25/16	
Created or		
Updated		

This propagation protocol template was modified by J.D. Bakker from that available at: <a href="http://www.nativeplantnetwork.org/network/SampleBlankForm.asp">http://www.nativeplantnetwork.org/network/SampleBlankForm.asp</a>

This is a revision of a pre-existing protocol that is available at: <a href="http://depts.washington.edu/propplnt/Plants/Ranunculus%20occidentalis.htm">http://depts.washington.edu/propplnt/Plants/Ranunculus%20occidentalis.htm</a>