Plant Propagation Protocol for Arabis cusickii/Boechera cusickii

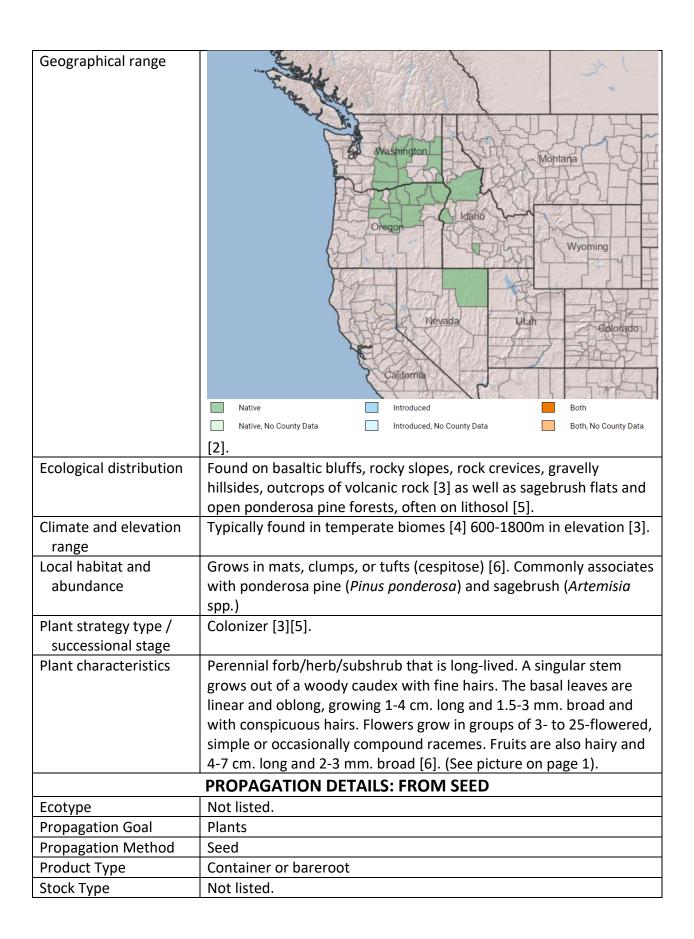
ESRM 412 – Native Plant Production

URL: https://courses.washington.edu/esrm412/protocols/2024/ARCU.pdf



Taken by Gerald D. Carr

TAXONOMY		
Plant Family		
Scientific Name	Brassicaceae Burnett	
Common Name	Mustard Family	
Species Scientific		
Name		
Scientific Name	Boechera cusickii (S.Watson) Al-Shehbaz (originally Arabis cusickii,	
	changed 2003) [1].	
Varieties	No known varieties.	
Sub-species	No known subspecies.	
Cultivar	No known cultivars.	
Common Synonym(s)	Arabis cusickii S. Watson	
Common Name(s)	Cusick's rockcress	
Species Code (as per	ARCU	
USDA Plants		
database)		
GENERAL INFORMATION		



Time to Grow	Not listed.
Target Specifications	Not listed.
Propagule Collection	Seeds of <i>Arabis aculeolata</i> are collected in the summer and planted
Instructions	right after harvest [8].
Propagule	Not listed.
Processing/Propagule	
Characteristics	
Pre-Planting Propagule	Seeds can be highly dormant. Seeds of Arabis alipina require both
Treatments	light and KNO₃ enrichment for germination [9].
Growing Area	Seeds of <i>Arabis aculeolata</i> can be sown into flats of potting soil or
Preparation / Annual	into the ground in late summer [8].
Practices for	
Perennial Crops	
Establishment Phase	Seeds should be germinated at 18-21°C (65-70°F) and have been
Details	noted to respond to light [7].
Length of	Seeds germinate in two weeks [7].
Establishment Phase	
Active Growth Phase	Not listed.
Length of Active	Not listed.
Growth Phase	
Hardening Phase	Not listed.
Length of Hardening	Not listed.
Phase	
Harvesting, Storage	Not listed.
and Shipping	
Length of Storage	Not listed.
Guidelines for	Not listed.
Outplanting /	
Performance on	
Typical Sites	No.
Other Comments	None.
	PROPAGATION DETAILS: VEGETATIVE
Ecotype	Not listed.
Propagation Goal	Plants
Propagation Method	Vegetative
Product Type	Propagules (cuttings)
Stock Type	Not listed.
Time to Grow	Not listed.
Target Specifications	Not listed.
Propagule Collection	Arabis aculeolata with branching crowns can be propagated through
Instructions	cuttings from the basal leaves in the summer [8].

Propagule	Not listed.			
Processing/Propagule				
Characteristics				
Pre-Planting Propagule	Not listed.			
Treatments				
Growing Area	Not listed.			
Preparation / Annual				
Practices for				
Perennial Crops				
Establishment Phase	Not listed.			
Details				
Length of	Not listed.			
Establishment Phase				
Active Growth Phase	Not listed.			
Length of Active	Not listed.			
Growth Phase				
Hardening Phase	Not listed.			
Length of Hardening	Not listed.			
Phase				
Harvesting, Storage	Not listed.			
and Shipping				
Length of Storage	Not listed.			
Guidelines for	Not listed.			
Outplanting /				
Performance on				
Typical Sites				
Other Comments	Cuttings should only be done from plants that were propagated			
	from seed [8].			
INFORMATION SOURCES				
References	[1] Al-Shehbaz, I. A. (2003). Transfer of most North American species			
	of arabis to Boechera (Brassicaceae). Novon, 13(4), 381.			
	https://doi.org/10.2307/3393366			
	[2] United States Department of Agriculture (USDA). (2024). Arabis			
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	[6] World Flora Online. (2024). <i>Boechera cusickii (S.Watson) Al-Shehbaz</i> . The WFO Plant List. https://www.worldfloraonline.org/taxon/wfo-0000567267
	[7] Hartmann, H. T., Kester, D. E., Davies, F. T., & Geneve, R. L. (2002). <i>Plant Propagation: Principles and Practices</i> (7th ed.). Prentice Hall.
	[8] Robson, K. A., Richter, A., & Filbert, M. (2008). <i>Encyclopedia of northwest native plants for gardens and landscapes</i> . Timber Press.
	[9] Young, J. A., & Young, C. G. (1999). <i>Collecting, processing, and germinating seeds of wildland plants</i> . Timber Press.
Other Sources Consulted	Bartow, A. (2015). <i>Native Seed Production Manual for the Pacific Northwest</i> . USDA-NRCS Corvallis Plant Materials Center.
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	Oregon State University. (2024). <i>Boechera cusickii (S. Watson) Al-Shehbaz</i> . OregonFlora. https://oregonflora.org/taxa/index.php?taxon=3288
	Puget Sound Institute. (2024). <i>Arabis cusickii</i> . Encyclopedia of Puget Sound. https://www.eopugetsound.org/species/arabis-cusickii
	Rose, R., C., Chachulski, C. E., & Haase, D. L. (1998). <i>Propagation of Pacific Northwest Native plants</i> . Oregon State University Press.
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