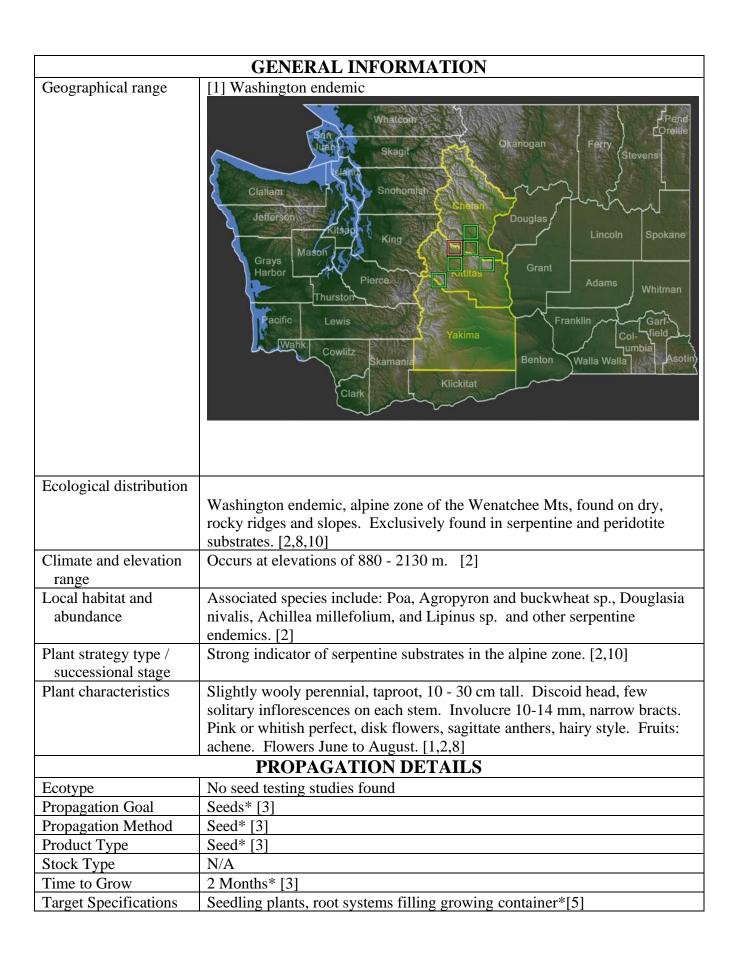
Plant Propagation Protocol for Chaenactis thompsonii

ESRM 412 – Native Plant Production
URL: https://courses.washington.edu/esrm412/protocols/2022/CHTH.pdf



Photo: Joe Arnett, 2012

TAXONOMY		
Plant Family		
Scientific Name	Asteraceae	
Common Name	Aster Family	
Species Scientific		
Name		
Scientific Name	Chaenactis thompsonii Cronquist.	
Varieties	N/A	
Sub-species	N/A	
Cultivar	N/A	
Common Synonym(s)	N/A	
Common Name(s)	Thompson's pincushion	
Species Code (as per	CHTH	
USDA Plants	Global Conservation Status: G3 [9]	
database)		



Propagule Collection	Bend the seed head into a bag and shake the seed into the bag. Produces	
Instructions	little contamination.	
Propagule	Sifting through 0.6 - 1-2 cm sifter to remove pappus. [3] Dry seeds prior to	
Processing/Propagul	storage. Cold storage 33-38 Degrees Fahrenheit.[3] 321,7000 to 450,000	
e Characteristics	seeds per pound.* [3,7] Longevity of seeds unknown	
Pre-Planting Propagule	n/a	
Treatments		
Growing Area	Sow 100 seeds per seed flat and cover with 1/8" chicken grit* [5]	
Preparation / Annual		
Practices for		
Perennial Crops		
Establishment Phase	2 months for first seedlings to emerge* [5]	
Details	Seedlings transplanted to 5.5" containers at 4 months* [5,7]	
Length of	1 month* [3]	
Establishment Phase	4 months* [5]	
	Another serpentine species from the same region, <i>Douglasia nivalis</i> ,	
	requires roughly 4 months.** [6]	
Active Growth Phase	Media allowed to dry between waterings, weak fertilizer applied once a	
	month, seedlings grow outside from summer to fall.* [5]	
Length of Active	6 months* [5] or 3-4 months* [3]	
Growth Phase		
Hardening Phase	n/a	
Length of Hardening	n/a	
Phase		
Harvesting, Storage	n/a	
and Shipping (of		
seedlings)		
Length of Storage	n/a	
Guidelines for	n/a	
Outplanting /		
Performance on		
Typical Sites		
Other Comments	This is a serpentine endemic. Propagation methods are primarily from the	
	common North American cosmopolitan congener: Chaenactis douglasii.	
	Methods for propagating this species might not be suitable for <i>Chaenactis</i>	
	thompsonii, but due to a lack of studies these are the methods to be	
	attempted to propagate this species.	
INFORMATION SOURCES		
References (full	1. Giblin, D.E. & B.S. Legler (eds.). 2003+. Chaenactis thompsonii.	
citations)	In: WTU Image Collection Web Site: Vascular Plants, MacroFungi,	
	& Lichenized Fungi of Washington State. University of Washington	
	Herbarium. Accessed 24 May	
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	on.php.	

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- 3. Tilley, Derek 2010. Propagation protocol for production of Chaenactis douglasii (Hook.) Hook. & Arn. seeds; USDA NRCS Aberdeen Plant Materials Center, Aberdeen, Idaho. In: Native Plant Network. URL: http://www.nativeplantnetwork.org (accessed 10 November 2010). Moscow (ID): University of Idaho, College of Natural Resources, Forest Research Nursery.
- 4. Barner, Jim. 2009. Propagation protocol for production of Propagules (seeds, cuttings, poles, etc.) *Chaenactis douglasii* (Hook.) Hook. & Arn. seeds USDA FS - R6 Bend Seed Extractory Bend, Oregon. In: Native Plant Network. URL: https://NativePlantNetwork.org (accessed 2022/05/24). US Department of Agriculture, Forest Service, National Center for Reforestation, Nurseries, and Genetic Resources.
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- 6. Luna, Tara; Wick, Dale; Hosokawa, Joy. 2008. Propagation protocol for production of Container (plug) *Douglasia montana* Gray plants 160 ml containers; USDI NPS Glacier National Park West Glacier, Montana. In: Native Plant Network. URL: https://NativePlantNetwork.org (accessed 2022/05/24). US Department of Agriculture, Forest Service, National Center for Reforestation, Nurseries, and Genetic Resources.
- 7. Parkinson, Hilary; DeBolt, Ann. 2005. Propagation protocol for production of Container (plug) *Chaenactis douglasii* (Hook.) H. & A. plants USDA FS Rocky Mountain Research Station Boise, Idaho. In: Native Plant Network. URL: https://NativePlantNetwork.org (accessed 2022/05/24). US Department of Agriculture, Forest Service, National Center for Reforestation, Nurseries, and Genetic Resources.
- 8. Hitchcock C.L., Cronquist A. 1973. Flora of the Pacific Northwest. Seattle (WA): University of Washington Press.

	 USDA NRCS National Plant Data Team. (2022). Chaenactis thompsonii Cronquist [Accessed May 24 2022],https://plants.usda.gov/home/plantProfile?symbol=CHTH Kruckeberg, A.R., Leuthy, C. 1991. The Wenatchee Mountains. Bulletin of the American Rock Garden Society. 49: 165-168.
Other Sources	n/a
Consulted	
Protocol Author	Samuel Champlin
Date Protocol Created	05/24/22
or Updated	

^{*}based on propagation protocols for congener *Chaenactis douglasii*.

**based on propagation protocols from associated species, *Douglasia nivalis* a serpentine endemic.