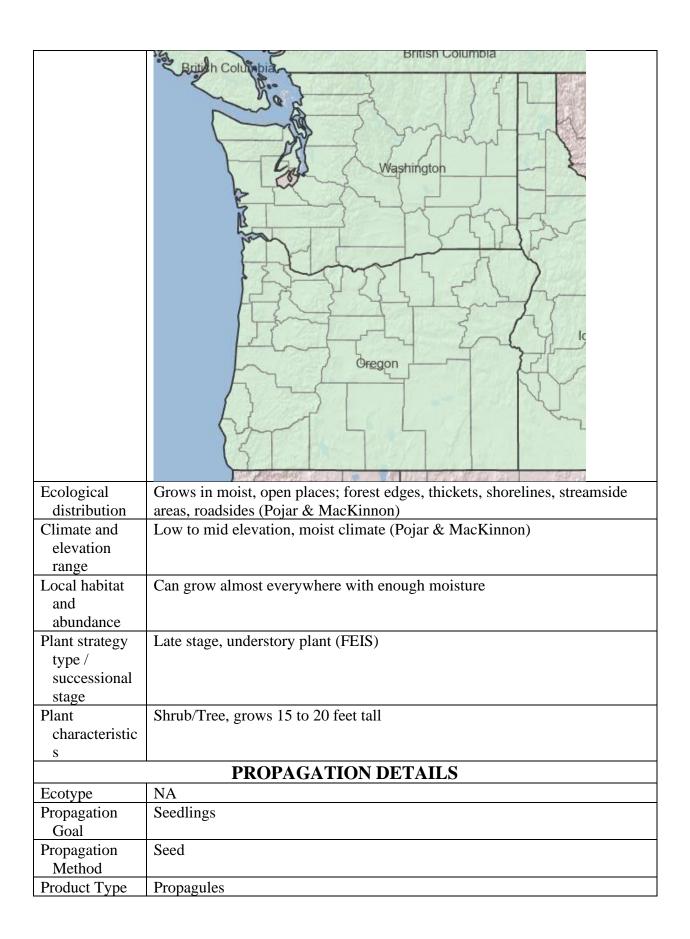
Plant Propagation Protocol for [Crataegus succulenta]
ESRM 412 – Native Plant Production
URL: https://courses.washington.edu/esrm412/protocols/[2022]/[CRSU.pdf]





TAXONOMY		
Plant Family		
Scientific	Crataegus succulenta	
Name		
Common	Fleshy Hawthorn	
Name		
Species		
Scientific		
Name		
Scientific	Crataegus succulenta Schrad.	
Name		
Varieties	NA	
Sub-species	NA	
Cultivar		
Common	NA	
Synonym(s)		
Common	Fleshy Hawthorn, succulent hawthorn, round-fruited cockspurthorn	
Name(s)		
Species Code	CRSU5	
(as per		
USDA Plants		
database)		
GENERAL INFORMATION		
Geographical	Native all throughout Washington and Oregon	
range		



Stock Type	
Time to Grow	2+ years, 18 months for germination
Target	2 - years, 10 months for germination
Specification	
Specification	
Propagule	Collect fruits when ripe in fall
Collection	
Instructions	
Propagule	22,600 seeds/lb (FEIS, Black Hawthorn)
Processing/P	
ropagule	
Characteristi	
cs	
Pre-Planting	Clean fruits, use a sieve to separate seeds from the flesh
Propagule	
Treatments	Extracted seed should be mixed with horticultural sand placed in pot with
	rocks in bottom of pot, covered in sand, horticultural sand/seed mix on top,
	covered in second layer of sand. Place pot in shady spot outside. Pots remain
	outside for 18 months, make sure to keep moist. (TCV)
	Fresh seeds - Place seeds in a pot as soon as they are ripe in the fall, place
	pots in a cold frame. Some seeds may germinate the next spring, most will
	take until the following spring, going through two winters of dormancy, a
	few may even take a third winter before they germinate. (PFAF)
	Stored seeds – same as above, but germination time MAY be improved.
	Soak seeds overnight in warm water, place in plastic bag with small amount
	of moist sand and seal to keep moisture in. Store in dark place for 3 months
	at 15 degrees C and then for another 3 months at 4 degrees C before potting
	seeds. Most of the seeds will still take the full 18 months to germinate.
	(PFAF)
Growing Area	In 1 liter pots, sow 3 seeds and cover with up to 10 mm of compost. (TCV)
Preparation /	
Annual	On a seedbed broadcast the seed densely, firmly press the seeds into the coil,
Practices for	cover with grit. (TCV)
Perennial	
Crops	
Establishment	Make sure to keep the plant moist as much as possible. Keep an eye out for
Phase Details	mildew growth.
Length of	18 months, time may be reduced with proper pre-treatment techniques, but
Establishmen	most will still take the full time
t Phase	
Active Growth	NA
Phase	
Length of	NA
Active	

Growth Phase		
Hardening Phase	NA	
Length of Hardening Phase	NA	
Harvesting, Storage and Shipping	NA	
Length of Storage	NA	
Guidelines for Outplanting /	Should be ready for outplanting after either 1 or two years. (TCV)	
Performance on Typical Sites	Prepare the site by clearing away any weeds or grasses that may compete with the plant. (TCV)	
Other Comments	Not much information is available specifically regarding this species of hawthorn, most of the propagation information is taken from information about black hawthorn, <i>Crataegus douglasii</i> , which grows in similar environments, or from sources regarding the <i>Crataegus</i> genus in general.	
	Not much specific information was available for the different growing phases, for the specific species or for the propagation of Hawthorn in general.	
INFORMATION SOURCES		
References	Crataegus succulenta schrad. Crataegus succulenta - Trees and Shrubs Online. (n.d.). Retrieved May 19, 2022, from https://treesandshrubsonline.org/articles/crataegus/crataegus- succulenta/  Leendertz, L. (2017, October 11). Hawthorn propagation - by Lia Leendertz. Hartley Botanic. Retrieved May 21, 2022, from https://hartley-	
	botanic.co.uk/magazine/hawthorn-propagation/ MacKinnon, A., Pojar, J., & MacKinnon, A. (2016). Shrubs. In <i>Plants of the Pacific Northwest Coast: Washington, Oregon, British Columbia &amp; Alaska</i> (pp. 73–73). essay, Partners Publishing.	
	Crataegus Species. Plants for a Future. (n.d.). Retrieved May 21, 2022, from https://pfaf.org/user/cmspage.aspx?pageid=59	
	United States Forest Service. (n.d.). <i>Crataegus douglasii</i> . Fire Effects Information System. Retrieved May 21, 2022, from https://www.fs.fed.us/database/feis/plants/shrub/cradou/all.html	

	Hawthorn - how to grow hawthorn from seed: A guide from TCV. How To Grow Trees. (n.d.). Retrieved May 21, 2022, from https://treegrowing.tcv.org.uk/grow/tree-recipes/hawthorn
Other Sources Consulted	Crataegus succulenta - fleshy hawthorn. Native Plant Trust: Go Botany. (n.d.). Retrieved May 21, 2022, from https://gobotany.nativeplanttrust.org/species/crataegus/succulenta/#:~:t ext=%20Crataegus%20succulenta%20— %20%20fleshy%20hawthorn%20,virilis%20Sarg.%20%20%20Fores t%20edges%2C%20More%20  Crataegus succulenta Schrad. ex link. GBIF. (n.d.). Retrieved May 21, 2022, from https://www.gbif.org/species/3016137
Protocol Author	Devin Emerson
Date Protocol Created or Updated	5/21/2022