Plant Propagation Protocol for [Insert Species]
ESRM 412 – Native Plant Production
URL: https://courses.washington.edu/esrm412/protocols/2022/GASH.pdf



Figure 1 http://nativeplantspnw.com/salal-gaultheria-shallon/

	TA VANIANTS	
TAXONOMY		
Plant Family	T	
Scientific Name	Ericaceae	
Common Name	Heath Family	
Species Scientific		
Name		
Scientific Name	Gaultheria shallon Pursh	
Varieties		
Sub-species		
Cultivar		
Common Synonym(s)	Known as Shallon in Britain, also known as Oregon Wintergreen	
Common Name(s)	Salal	
Species Code (as per	GASH	
USDA Plants		
database)		
GENERAL INFORMATION		
Geographical range	Found along the West Coast, in mid-western Washington and Oregon,	
	and along the West coast of California, as well as throughout British	
	Columbia and the southern parts of Alaska (USDA database)	
Ecological distribution	One of the most common understory shrubs, but can also occur in	
	wetlands	
Climate and elevation	Typically grows west of the Cascade Mountains, prefers shady	
range	conditions but can grow in full sun, low to medium elevation	
	Able to grow in a variety of soil conditions, typically grows in nutrient	
	poor to moderately rich soils. (FEIS Database)	
Local habitat and	Very versatile in where it can be grown, can be slow to establish, but	
abundance	will aggressively fill in space when allowed to	

Plant strategy type /	Colonizer, grows well in freshly disturbed sites
successional stage	, constant, grown and an arrange and arrange and arrange arran
Plant characteristics	Shrub, oval-shaped, leathery green leaves. 2-4 inches long and 1-3 inches wide. Flowers are white-pink when blooming, edible berries are dark purple.
	PROPAGATION DETAILS
Propagation Goal	Seedlings
Propagation Method	Vegetative or Seed, seedling establishment is insignificant where plants are already established (FEIS Database)
Product Type	Container
Stock Type	1 gallon container
Time to Grow	Early seedling growth make take 2-3 years, only 1 year from cuttings
Target Specifications	3-5 inches in height for seedlings
Propagule Collection Instructions	Salal blooms during late spring, with the fruit beginning to grow in the summer. Fruit should be collected between summer and fall, crushed up and floated to retrieve seeds, filtered through pantyhose (Potash et al. 1997)
Propagule	# of seeds per pound: 5,000,000 (USDA Database)
Processing/Propagule	Seeds remain viable for several years when stored under proper
Characteristics	conditions, but much less under natural conditions (FEIS Database)
Pre-Planting Propagule Treatments	Stratification is not required for germination, but periods of light up to 8 hours a day are. (FEIS Database)
Growing Area Preparation / Annual Practices for Perennial Crops	Seeds need to be planted in the fall
Establishment Phase Details	8 hours of light a day for germination (FEIS Database)
Length of	Seedlings germinate within 3-5 weeks. Keep between 40-50 degrees F
Establishment Phase	during winter (Potash et al. 1997)
Active Growth Phase	Transplant seedlings to larger container when they are large enough to handle. Need to be careful, roots are very sensitive, resulting in wild-dug plants not transplanting well.
Length of Active	1-2 years
Growth Phase	Not much information is available in regard to the hardening phase of
Hardening Phase	Gaultheria shallon Pursh.
Length of Hardening Phase	Not much information is available in regard to the hardening phase of <i>Gaultheria shallon</i> Pursh.
Harvesting, Storage	Need to be careful, roots are very sensitive and need to be kept intact for
and Shipping	best chances of survival
Length of Storage	No specific information found about length of storage
Guidelines for	Plant in the spring once plant shave reached target size.
Outplanting /	

Performance on Typical Sites		
Other Comments	Very slow to establish from seed, layering is the most efficient way to reproduce. Wild, established adult plants don't transplant well, can take several years to show new growth, if they survive. (Native Plants PNW) INFORMATION SOURCES	
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References	Gaultheria shallon Pursh. (n.d.). Retrieved May 4, 2022, from https://plants.sc.egov.usda.gov/home/plantProfile?symbol=GASH . Salal Caultheria Shallon Netiva Plants PNW (2015, September 28)	
	Salal, Gaultheria Shallon. Native Plants PNW. (2015, September 28). Retrieved May 4, 2022, from http://nativeplantspnw.com/salal-gaultheria-shallon/	
	FEIS database: Accessed on 5/4/2022, https://www.fs.fed.us/database/feis/plants/shrub/gausha/all.html	
	Potash, Laura L. and Carol A. Aubry. 1997. Mt. Baker – Snoqualmie National Forest Native Plant Notebook: Second Edition. North Cascades Institute: SedroWoolley. pp.125-126.	
Other Sources Consulted	Oregon State University. (n.d.). Landscape plants. Gaultheria shallon Landscape Plants Oregon State University. Retrieved May 4, 2022, from https://landscapeplants.oregonstate.edu/plants/gaultheria-shallon MacKinnon, A., Pojar, J., & Alaback, P. B. (2004). Gaultheria shallon. In Plants of coastal British Columbia including Washington, Oregon & alaska (pp. 53–53). essay, Lone Pine Pub.	
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