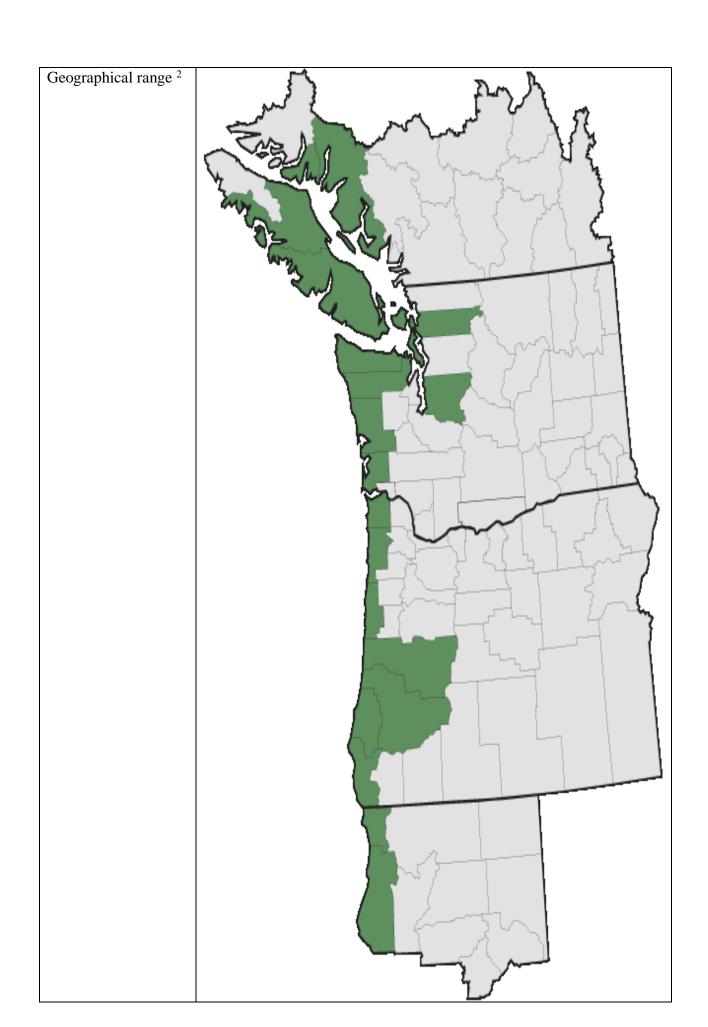
Plant Propagation Protocol for *Lupinus littoralis*ESRM 412 – Native Plant Production
Protocol URL: https://courses.washington.edu/esrm412/protocols/[*LULI2.pdf*]



TAXONOMY		
Plant Family		
Scientific Name	Fabaceae ¹	
Common Name	Pea family ¹	
Species Scientific		
Name		
Scientific Name	Lupinus littoralis Douglas ¹	
Varieties	n/a	
Sub-species	n/a	
Cultivar		
Common	n/a	
Synonym(s)		
Common Name(s)	Seashore Lupine ¹	
Species Code (as per	LULI2 ¹	
USDA Plants		
database)		
GENERAL INFORMATION		



Englaciant	Equal in anger with strong monitions in Course Equal and the interest of the course of
Ecological	Found in areas with strong maritime influence. Found on the immediate
distribution	coast from British Columbia to Southern Oregon ²
Climate and elevation	Usually will not be found above 500 ft. elevation. Will grow in typical
range	seashore climate such as high wind and rain. Resides along beaches and
	costal dunes. ³
Local habitat and	Found infrequently along the coast. Can be found along the Puget
abundance	Sound as well. L. littoralis will not be found along rivers or lakes. Can
	be found alongside
	Carex macrocephala, Poa macrantha, Glehnia leicarpa,
	and Polygonum paronychia.
Plant strategy type /	Early seral colonizer of beaches and dunes. It can tolerate the harsh,
successional stage	windy environment typical of this environment. ²
Plant characteristics	Perennial plant, silver with long shaggy hairs, especially at nodes.
	Leaves many, along stems on 1–3 in. petioles, divided palmately to 5–9
	leaflets, each 1/3–1 1/2 in. long. Flower spike 5–6 in. long, on 1–3 in.
	stalk ²
	DDODACATION DETAILS
T	PROPAGATION DETAILS
Ecotype	n/a
Propagation Goal	Plants and seeds ⁴
Propagation Method	Seed
Product Type	Container (plug) ⁴
Stock Type	n/a
Time to Grow	6-8 weeks ²
Target Specifications	n/a
Propagule Collection	Collect seeds from July to August, as pods are mature. However, the
Instructions	pods will shatter if collection occurs too late. Seeds can be collected
D 1	following national guidelines or purchased on-line. ⁴
Propagule	Each <i>L. littoralis</i> pod contains about 12 seeds, which are viable for long
Processing/Propagu	periods, ranging from 2-15 years ²
le Characteristics	
Pre-Planting	Seeds have a thin, hard shell which requires scarification for abundant
Propagule	germination. In small quantities, mechanical scarification should be
Treatments	avoided as it can harm the seeds. One method is boiling water and
	placed the seeds in the water and letting it cool. Store in 40% humidity
	and 40% Fahrenheit in air tight containers, as the seeds have a high
Cassina A :	moisture content. 3
Growing Area	L. littoralis do best in moist, well drained sandy soil. Make sure the soil
Preparation / Annual Practices	is not too sandy, but remember that they grow on the beaches of the
for Perennials	Northwest, so moist soil is ideal. Inoculation with Rhizobium specific
101 1 CICILIIIAIS	to Lupinus spp. can aid overall success particularly when working with a sterile planting soil. ³
	a sterne planting son.
Establishment Phase	During this phase, check at least daily to make sure the soil remains
Litabilisimiciti I masc	Daring this phase, cheek at least daily to make sure the son remains

Details	moist. Do not sow more than three seeds per container. ⁴	
Length of	2-3 weeks ⁴	
Establishment		
Phase		
Active Growth Phase	Water daily	
Length of Active	3-5 weeks ⁴	
Growth Phase		
Hardening Phase	n/a	
Length of Hardening	n/a	
Phase		
Harvesting, Storage	n/a	
and Shipping		
Length of Storage	n/a	
Guidelines for	L. littoralis does not transplant well. The survival rate is lower for	
Outplanting /	transplanting than seeding directly.	
Performance on		
Typical Sites		
Other Comments	n/a	
INFORMATION SOURCES		
References	See below	
Other Sources	See below	
Consulted		
Protocol Author	Daniel Neyman	
Date Protocol	04/23/17	
Created or Updated		

- 1. "Lupinus littoralis Douglas." Plants Profile for Lupinus littoralis (seashore lupine). USDA, n.d. Web. 26 Apr. 2017.
- 2. "Lupinus littoralis | seashore lupine | Wildflowers of the Pacific Northwest." Wildflowers. Turner Photography, n.d. Web. 26 Apr. 2017.
- 3. WTU Herbarium Image Collection Burke Museum. Burke Museum, n.d. Web. 03 Apr. 2017.http://biology.burke.washington.edu/herbarium/imagecollection.php?Genus=Lupinus&Species=littoralis.
- 4. Pfaf Plant Search. N.p., n.d. Web. 05 June 2017. http://www.pfaf.org/User/Plant.aspx?LatinName=Lupinus%2Blittoralis.