Plant Propagation Protocol for Angelica lucida
ESRM 412 – Native Plant Production
Spring 2017





Source: Turner Photographics

WTU Herbarium

	TAXONOMY
Plant Family	
Scientific Name	Apiaceae
Common Name	Carrot Family
Species Scientific Name	
Scientific Name	Angelica lucida L.
Varieties	
Sub-species	
Cultivar	
Common Synonym(s)	Coelopleurum actaeifolium (Michx.) J.M. Coult. &
	Rose
	Coelopleurum gmelinii (DC.) Ledeb.
	Coelopleurum lucidum (L.) Fernald
	Coelopleurum lucidum (L.) Fernald ssp. gmeliniii
	(DC.) A. Löve & Löve ^[5]
Common Name(s)	seacoast angelica
Species Code (as per USDA Plants	ANLU ^[5]
database)	
GENERAL INFORMATION	
Geographical range	This species occurs along both the west and east coast
	of North America. On the west coast, the range
	extends from Alaska, down into California. On the
	east coast, the range extends from Newfoundland down

	into New England. It can also be found along the Pacific coastlines in Asia ^[4] [9].	
Ecological distribution	Coastal areas, riparian wetlands, and meadows ^[9] .	
Climate and elevation range	This species grows in areas with low elevation along	
	shorelines, up to subalpine elevations.	
Local habitat and abundance	Angelica lucida grows best along coastlines and near	
	streams. It is associated with another species of	
	Angelica, Angelica atropurpurea which grows in	
	similar environments ^[1] .	
Plant strategy type / successional	This species is extremely cold hardy ^[9] .	
stage		
Plant characteristics	Angelica lucida is a perennial herb that can grow from	
	rhizomes. Its leaves are pinnate and divided into 3	
	leaflets. Small white flowers without bracts grow in	
	clusters on stalks ^[4] .	
PROPAGATION DETAILS [6]		
Ecotype	Coastal ecotype	
Propagation Goal	Plants	
Propagation Method	Seed and vegetative	
Product Type	Container	
Stock Type		
Time to Grow	N/A	
Target Specifications	N/A	
Propagule Collection Instructions	Collect seeds after the flowers bloom in late Spring	
	from June to August ^[2] .	
Propagule Processing/Propagule	Many seeds can be produced from the big seed heads.	
Characteristics	Seeds remain viable for only about 6 months.	
Pre-Planting Propagule Treatments	Seeds should be pre soaked in water for 24 hours prior	
	to stratification. Seeds are placed in warm	
	stratification at 75 °F for 60 days followed by cold	
	stratification at 35 °F for 90 days. This results in a	
Crossing Area Programation / Arrayal	65% germination rate.	
Growing Area Preparation / Annual	This species needs moisture retentive media during its	
Practices for Perennial Crops	germination phase, since frequent watering and	
	moisture is required. They can be grown in individual containers or in flats.	
Establishment Phase Details		
Establishment Phase Details	Seeds germinate 14 days after sowing and can be	
Langth of Establishment Phase	transplanted after this time. 1 month	
Length of Establishment Phase Active Growth Phase	The plant will develop offsets on roots that are at least	
Active Orowin i nase	two years old. These can be separated through	
	vegetative propagation to produce new plants.	
Length of Active Growth Phase	N/A	
Hardening Phase	Plants can take up to 4 years from the start of	
Transcring Thase	germination to bloom and produce seeds.	
Length of Hardening Phase	N/A	
Lengui of Hardening Hase	11/11	

Harvesting, Storage and Shipping	Keep in freezer	
Length of Storage	6 months	
Guidelines for Outplanting /	Plants reach 2-4 feet tall and are extremely cold hardy.	
Performance on Typical Sites		
Other Comments		
INFORMATION SOURCES		
References	See below	
Other Sources Consulted		
Protocol Author	Patrick Kuo	
Date Protocol Created or Updated	04/26/17	

References:

- [1] (2017). "Angelica lucida." Calflora. Retrieved from http://www.calflora.org/cgi-bin/species_query.cgi?where-taxon=Angelica+lucida.
- [2] (2007) "Angelica lucida." Lady Bird Johnson Wildflower Center. Retrieved from https://www.wildflower.org/plants/result.php?id_plant=ANLU.
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- [4] "Angelica lucida." Turner Photographics. Retrieved from http://www.pnwflowers.com/flower/angelica-lucida
- [5] "Angelica lucida L. seacoast angelica" United States Department of Agriculture Natural Resources Conservation Service. Accessed 26 Mar. 2017. Retrieved from https://plants.usda.gov/core/profile?symbol=ANLU
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- [7] Polar, J. and MacKinnon, A. *Plants of Coastal British Columbia*. Vancouver, BC: Lone Pine Publishing, 1994. pp. 218.
- [8] Preus, Mary. The Northwest Herb Lover's Handbook: A Guide to Growing Herbs for Cooking, Crafts, and Home Remedies. Sasquatch Books, 2000. pp. 83-84.
- [9] Smith, Fin et al. (2014) "Sea-watch, sea coast Angelica Angelica lucida." Biodiversity of the Central Coast. Retrieved from http://www.centralcoastbiodiversity.org/sea-watch-bull-angelica-lucida.html