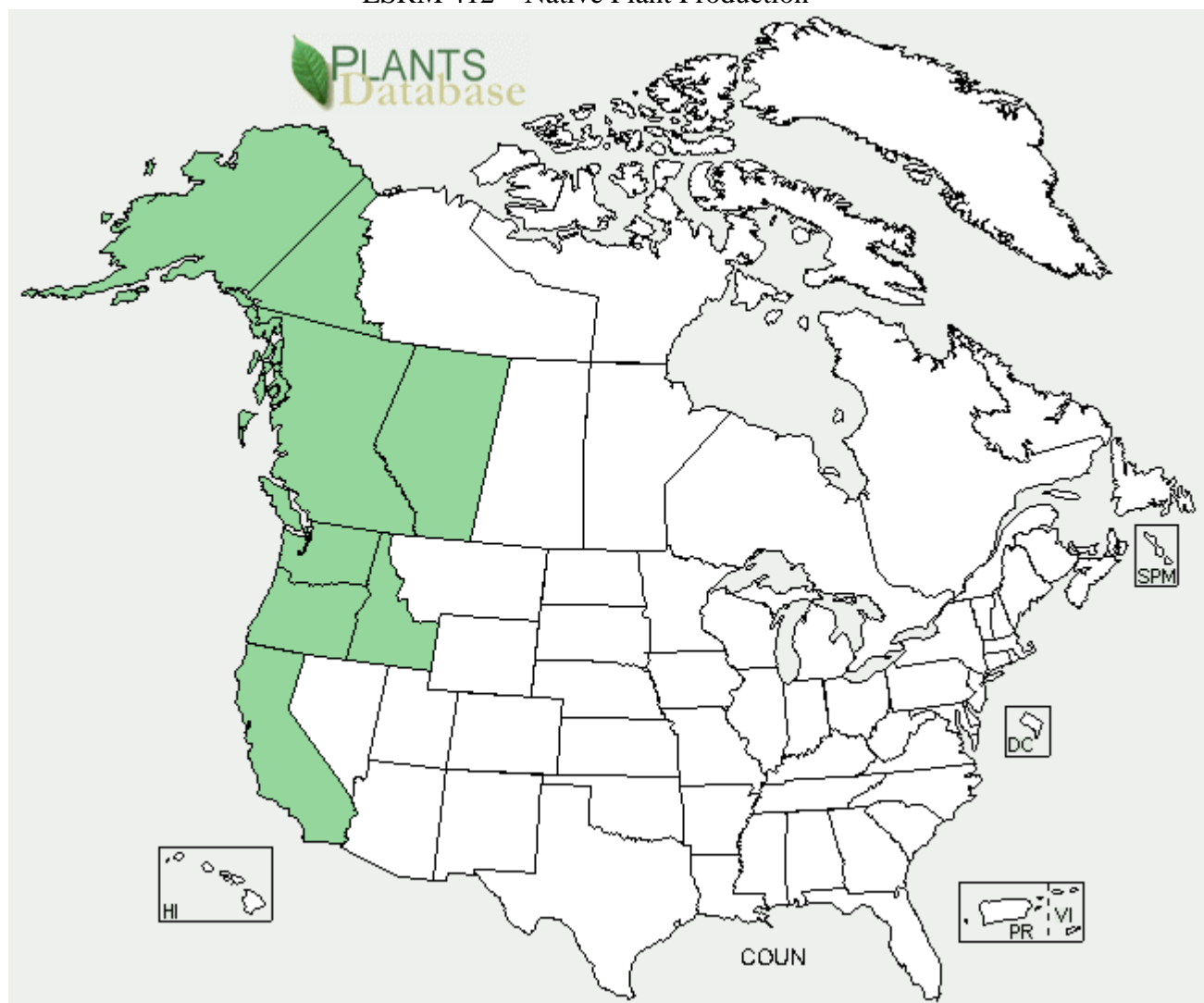
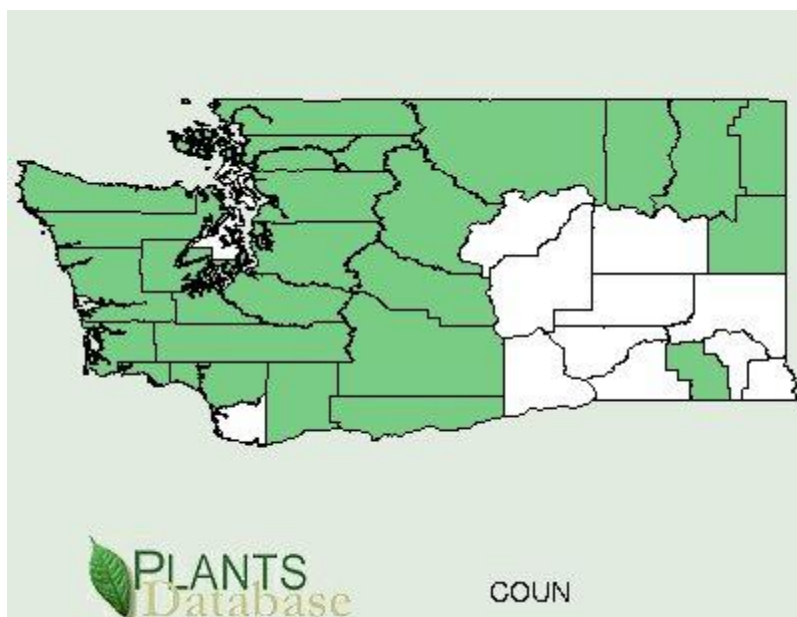


Plant Propagation Protocol for *Cornus unalaschkensis*
ESRM 412 – Native Plant Production





Images Courtesy of: <http://plants.usda.gov/java/profile?symbol=COUN>

TAXONOMY	
Family Names	
Family Scientific Name:	Cornaceae ¹
Family Common Name:	Dogwood ⁴
Scientific Names	
Genus:	<i>Cornus</i>
Species:	<i>unalaschensis</i>
Species Authority:	Ledeb
Variety:	
Sub-species:	
Cultivar:	
Authority for Variety/Sub-species:	
Common Synonym(s):	<i>Cornus unalashkensis</i> Ledeb. ¹
Common Name(s):	Western Cordilleran Bunchberry. ¹ Dwarf dogwood, Dwarf cornel, Bunchberry dogwood. ⁴
Species Code:	COUN
GENERAL INFORMATION	
Geographical range:	<i>See above maps.</i>
Ecological distribution:	Often occurs in moist forests, meadows, bogs, logs, and stumps. ^{4,9}
Climate and	Low to fairly high elevations. ⁴

elevation range	
Local habitat and abundance; may include commonly associated species	
Plant strategy type / successional stage:	
Plant characteristics:	Species is a shrub that grows 4 – 8” when mature. Leaves are oval and are present in bunches of 4 whitish leaves in a whorl on top. Blooms last from June through August. The fruit is bright orange-red. ^{4,6,9}
PROPAGATION DETAILS	
Ecotype:	
Propagation Goal:	Plants
Propagation Method:	Seed
Product Type:	
Stock Type:	
Time to Grow (from seeding until plants are ready to be outplanted):	12 months ¹⁰
Target Specifications	
Propagule Collection:	Seeds may be salvaged while the leaves are still on. Collect seeds from August to October. ^{4,8}
Propagule Processing/Propagule Characteristics:	
Pre-Planting Propagule Treatments:	If sown immediately, flesh does not need to be removed. ^{3,4} Stored seed should be cold stratified for 3-4 months and then sown early in the year. ^{10,11}
Growing Area Preparation / Annual Practices for Perennial Crops:	The seeds should be sown ¼” deep in a sandy:peat (3:1) soil during the fall. Cover the seedbed with a layer of pine needle mulch and place in a cold frame, or protect with a seed cloth over winter. ²
Establishment Phase:	Seeds slow to germinate, may germinate over 3 years. ^{2,10,11}
Length of Establishment Phase:	
Active Growth Phase:	
Length of Active Growth Phase:	
Hardening Phase:	
Length of Hardening	

Phase:	
Harvesting, Storage and Shipping:	
Length of Storage:	
Guidelines for Outplanting / Performance on Typical Sites (eg, percent survival, height or diameter growth, elapsed time before flowering):	Plant in spring after the last frost. ¹⁰ May take up to 12 months for the plants to become fully rooted and growing well enough for outplanting. ¹⁰
Other Comments:	
INFORMATION SOURCES	
References (full citations):	<p>¹ United States Department of Agriculture: Natural Resources Conservation Service. http://plants.usda.gov/java/profile?symbol=COUN. Accessed 5/17/2011.</p> <p>² Bohan, Heidi; Winters, Kathleen. Native Seed Information & Culture: Puget Sound Chapter Washington Native Plant Society. ftp://kcwppub3.co.kitsap.wa.us/pw/sw/Native%20Seed.pdf. Accessed 5/17/2011.</p> <p>⁴ <i>Grow Your Own Native Landscape: A Guide to Identifying, Propagating & Landscaping with Western Washington Native Plants</i>. Native Plant Salvage Project, WSU Extension-Thurston County, revised June 1999.</p> <p>⁶ Bieck, David; McDougall, Susan. The Flora of Mount Adams, Washington. Sound books, Seattle, WA. 2007.</p> <p>⁸ USDA Forest Service. 1974. Seeds of Woody Plants in the United States. U.S.D.A. Agriculture Handbook No 450. Washington, D.C.</p> <p>¹⁰ Plants for a Future. http://digedibles.com/database/plants.php?Cornus+x+unalaschensis. Accessed 5/17/2011.</p> <p>¹¹ Bird, R. (Editor) <i>Growing from Seed. Volume 4</i>. Thompson and Morgan. 1990 Very readable magazine with lots of information on propagation. A good article on Yuccas, one on Sagebrush (<i>Artemisia</i> spp) and another on <i>Chaerophyllum bulbosum</i></p>
Other Sources Consulted (but that contained no pertinent information) (full	<p>³ Native Plant Salvage Alliance. http://cahedb.wsu.edu/nativePlant/scripts/webDisplayPlant.asp?ID=nv059. Accessed 5/17/2011.</p> <p>⁵ Enari, Leonard. Plants of the Pacific Northwest. Binfords & Mort, Publishers. Portland, Oregon, USA. 1956.</p>

citations):	⁷ Robinson, Kathleen; Richter, Alice; Filbert, Marianne. <u>Encyclopedia of Northwest Native Plants for Gardens and Landscapes</u> . Timber Press; Portland, Oregon. 2008.
Protocol Author (First and last name):	Matthew Ross
Date Protocol Created or Updated (MM/DD/YY):	5/18/2011

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<http://www.nativeplantnetwork.org/network/SampleBlankForm.asp>