

Plant Propagation Protocol for *Calamagrostis nutkaensis*
 ESRM 412 – Native Plant Production



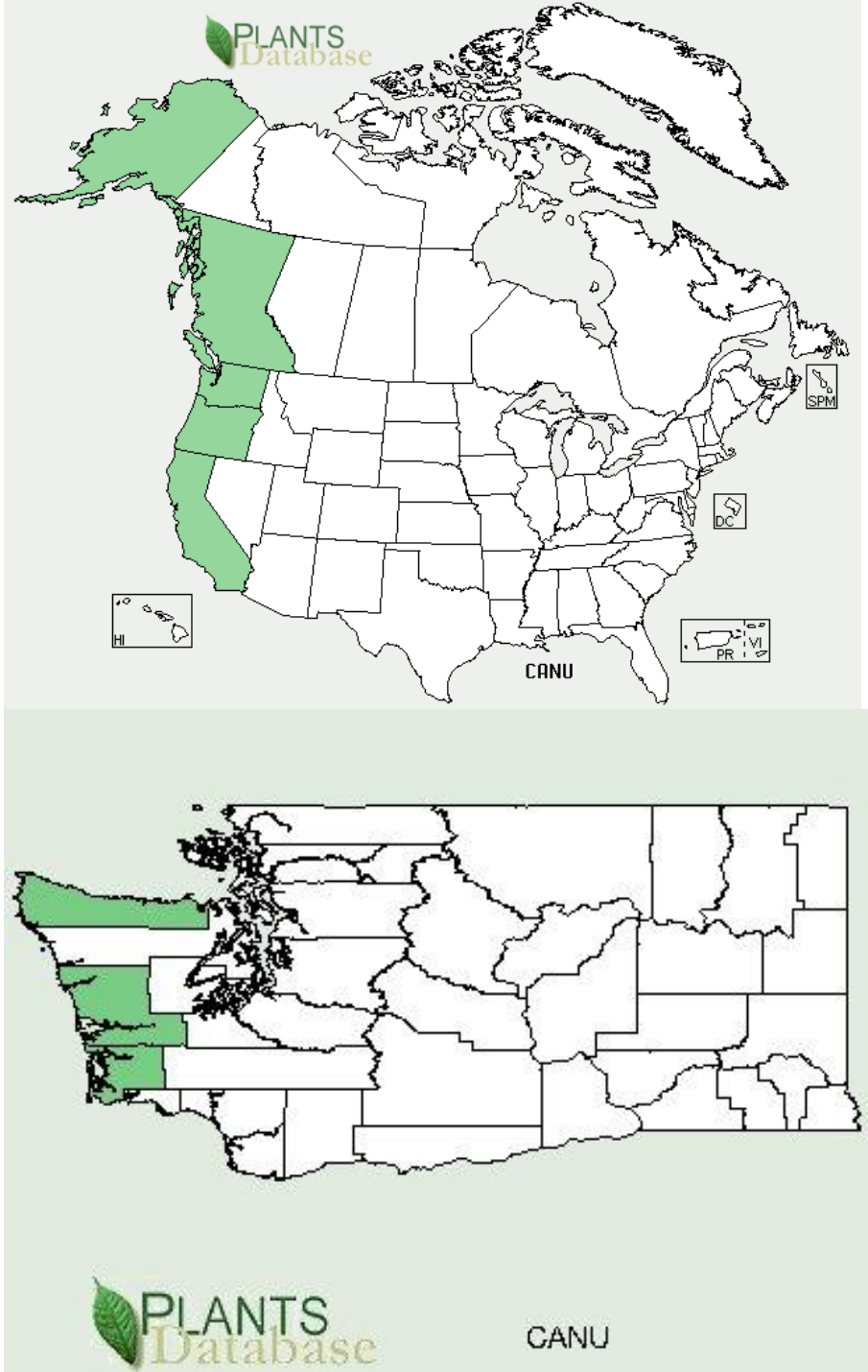
TAXONOMY

Family Names	
Family Scientific Name:	Poaceae
Family Common Name:	Grass Family
Scientific Names	
Genus:	<i>Calamagrostis</i>
Species:	<i>nutkaensis</i>
Species Authority:	(J. Presl.) J. Presl. ex Steud.
Variety:	n/a
Sub-species:	n/a
Cultivar:	n/a
Authority for	n/a

Variety/Sub-species:	
Common Synonym:	<i>Deyeuxia nutkaensis</i> J. Presl
Common Name:	Pacific reedgrass
Species Code:	CANU

GENERAL INFORMATION

Geographical range:



Ecological distribution:	Distributed throughout the West Coast.
Climate and elevation range	Pacific reedgrass low elevations with sun or light shade and coastal habitats. Cool temperature, regular water and good drainage are essential. (3)
Local habitat and abundance; may include commonly associated species	n/a
Plant strategy type / successional stage:	Colonizer
Plant characteristics	Grass
PROPAGATION DETAILS	
Propagation Goal:	Plants are the propagation goal.
Propagation Method:	The propagation method used for Pacific reedgrass is seed.
Product Type:	Betty Young Nursery recommended using container (plug). (2)
Stock Type:	The stock type used was Deepot 16. (2)
Time to Grow:	Information not available.
Target Specifications :	Target specifications call for a firm root system in the 8” leach tube container plug.
Propagule Collection:	At maturity, Pacific reedgrass seed is brown and can be collected May 1 st – August 15 th .
Propagule Processing/Propagule Characteristic:	Pacific reedgrass seeds should be kept dry and refrigerated. There are no seed cleaning requirements and seeds can be, “hand stripped from inflorescence at the time of collection” (2).
Pre-Planting Propagule Treatments:	There are no pre-planting treatments recommended.
Growing Area Preparation / Annual Practices for Perennial Crops:	It is recommended to have a fully controlled greenhouse and to use direct surface sown seeding. 8” leach tubes with 4 seeds per container in a standard potting mix, “peat moss, fir bark, perlite, and sand” is what was used by the Betty Young nursery, with a sowing date of May 1 st .(2)
Establishment	According to the Native plant network it takes 21 days, after sowing, for

Phase:	Pacific reedgrass to germinate. After the 21 day germination extra seedlings can be transplanted to individual 8” leach tubes. Tubes should contain the standard potting mix of, “peat moss, fir bark, perlite, and sand” (2). Transplanted germinates have an 80% survival rate.
Length of Establishment Phase:	Establishment phase is 6 weeks.
Active Growth Phase:	Information not available.
Length of Active Growth Phase:	Information not available.
Hardening Phase:	Information not available.
Length of Hardening Phase:	Information not available.
Harvesting, Storage and Shipping:	Information not available.
Length of Storage:	Information not available.
Guidelines for Outplanting / Performance on Typical:	Information not available.
Other Comments:	n/a
INFORMATION SOURCES	
References:	<ol style="list-style-type: none"> 1) USDA Plants. Website. http://plants.usda.gov/java/profile?symbol=CANU 2) The Native Plant Net work. Web site. http://www.nativeplantnetwork.org/network/ViewProtocols.aspx?ProtocolID=566 3) <i>Wild Lilies, Irises, and Grasses. Gardening with California Monocots.</i> Harlow, Nora. Jakob, Kristin. University of California Press. Berkeley. 2003.
Other Sources Consulted:	<ol style="list-style-type: none"> A) Nehalem Teaching Trail. Website. http://www.nehalemtrust.org/5Education/08%20Dec%20Nehalem%20Teaching%20Trail%20.pdf B) <i>Designing California Native Gardens.</i> Keator, Glenn. Middlebrook, Alrie. University of California Press. Berkeley. 2007. C) <i>Plants and Landscapes for Summer-Dry Climates.</i> East Bay Municipal Utility District. 2004. D) <i>Growing California Native Plants.</i> Schmidt, Marjorie G. University of California Press. Berkeley. 1980.

	E) The Jepson Manual. Website. http://ucjeps.berkeley.edu/cgi-bin/get_cn_hort.pl
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Note: This template was modified by J.D. Bakker from that available at:
<http://www.nativeplantnetwork.org/network/SampleBlankForm.asp>