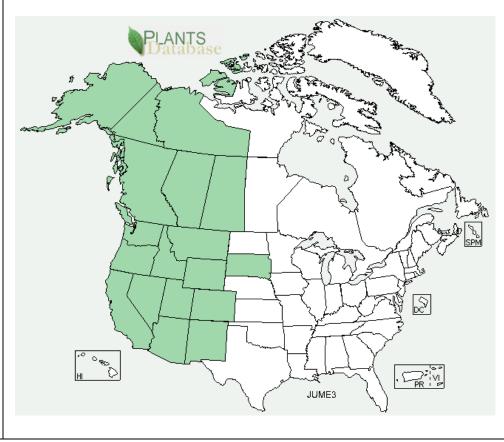
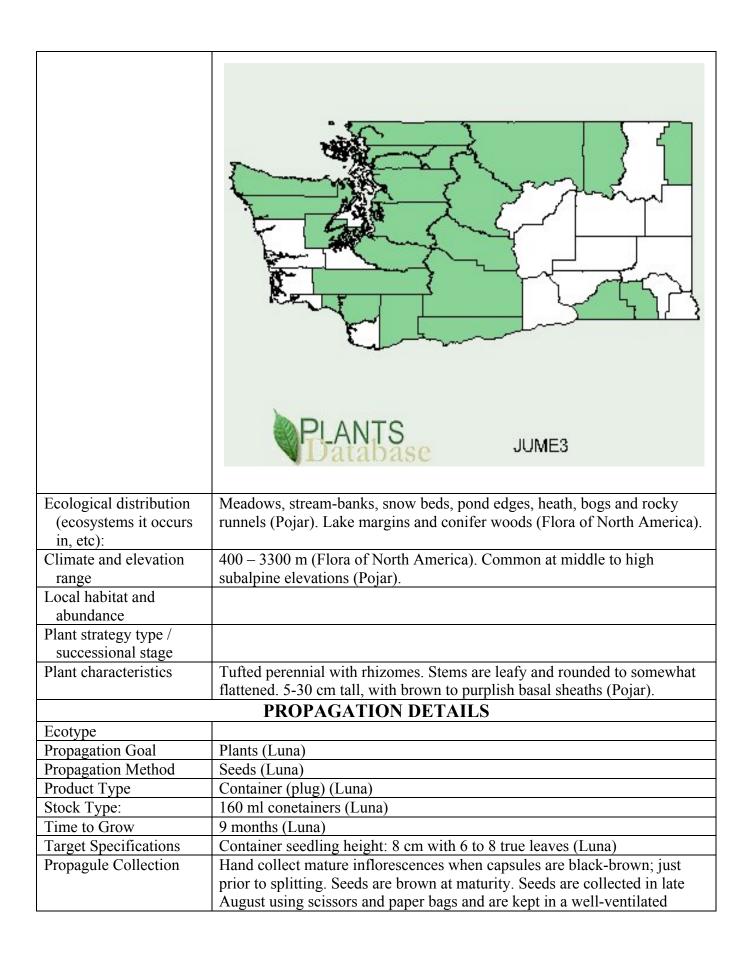
## **Plant Propagation Protocol for** *Juncus mertensianus* **Bong.** ESRM 412 – Native Plant Production

	TAXONOMY	
Family Names		
Family Scientific Name:	Juncaceae	
Family Common Name:	Rush	
Scientific Names		
Genus:	Juncus	
Species:	mertensianus	
Species Authority:	Bong.	
Variety:		
Sub-species:		
Cultivar:		
Authority for		
Variety/Sub-species:		
Common Synonym	Juncus slwookoorum S.B. Young	
Common Name(s):	Mertens' Rush	
Species Code	JUME3	
GENERAL INFORMATION		
Geographical range		
	PLANTS	





	drying shed prior to cleaning. (Luna)
Propagule	Hammer mill and fanning mill are used for cleaning.
	Seed longevity is unknown.
Processing/Propagule Characteristics	Seed dormancy type is unknown.
Characteristics	Seeds/Kg: unknown
	% Purity: 100%
	% Germination: 50 to 80% (Luna)
Pre-Planting Propagule	5-month outdoor cold, moist stratification. (Luna)
Treatments	3-month outdoor cold, moist stratification. (Luna)
Growing Area	Outdoor Nurgary
	Outdoor Nursery.  Soving Method: Direct Seeding, Seeds are surface sown for the light
Preparation / Annual	Sowing Method: Direct Seeding. Seeds are surface sown for the light
Practices for Perennial	requirement. Conetainers are filled and sown in late fall and irrigated
Crops	thoroughly prior to winter stratification. Seedlings germinate in spring
	under fluctuating outdoor temperatures and are grown under full sun
	exposure. Seedlings are irrigated by an automatic irrigation system in early
	morning until containers are thoroughly saturated.
	Average growing season of nursery is from late April after snowmelt until
Establishes and Dhana	October 15th. (Luna)
Establishment Phase	Seeds are subjected to winter stratification and fluctuating temperatures
	during germination. Medium is kept moist during germination. Shoot and
T (1 CE (11:1	root development occur rapidly following germination. (Luna)
Length of Establishment	4 weeks (Luna)
Phase:	
Active Growth Phase	Seedlings are root tight 8 weeks after germination. (Luna)
Length of Active	8 weeks (Luna)
Growth Phase:	
Hardening Phase	Irrigation is gradually reduced in September and October. Plants are given a
	final irrigation prior to winterization. (Luna)
Length of Hardening Phase:	4 weeks (Luna)
Harvesting, Storage and	Total Time to Harvest: 9 months
Shipping	Harvest Date: August
11 2	Storage Conditions: Overwinter in outdoor nursery under insulating foam
	cover. (Luna)
Length of Storage	5 months (Luna)
Guidelines for	
Outplanting /	
Performance on	
Typical Sites	
J 1	
Other Comments	
	INFORMATION SOURCES
	· · · · · · · · · · · · · · · · · · ·
Other Comments	Luna, Tara; Evans, Jeff.; Wick, Dale.; Hosokawa, Joy. 2008. Propagation
Other Comments	· · · · · · · · · · · · · · · · · · ·
Other Comments	Luna, Tara; Evans, Jeff.; Wick, Dale.; Hosokawa, Joy. 2008. Propagation protocol for production of container <i>Juncus mertensianus</i> Bong. plants (160

	University of Idaho, College of Natural Resources, Forest Research Nursery.
	"Juncus mertensianus." <i>Flora of North America</i> . EFloras.org. Web. 18 May 2011. http://www.efloras.org
	Pojar, Jim, A. MacKinnon, and Paul B. Alaback. <i>Plants of the Pacific Northwest Coast: Washington, Oregon, British Columbia &amp; Alaska</i> . Redmond, WA: Lone Pine Pub., 1994. Print.
Other Sources Consulted	Guides, Step. "Juncus Mertensianus (Mertens' Rush)   NPIN." <i>Lady Bird Johnson Wildflower Center - The University of Texas at Austin.</i> Web. 18 May 2011. http://www.wildflower.org/plants/result.php?id_plant=JUME3.
	"Juncus Mertensianus." <i>Wikipedia, the Free Encyclopedia</i> . Web. 18 May 2011. http://en.wikipedia.org/wiki/Juncus_mertensianus.
	Kozloff, Eugene N. <i>Plants of Western Oregon, Washington &amp; British Columbia</i> . Portland, Or.: Timber, 2005. Print.
	Niehaus, Theodore F., and Charles L. Ripper. A Field Guide to Pacific States Wildflowers: Field Marks of Species Found in Washington, Oregon, California, and Adjacent Areas: a Visual Approach Arranged by Color, Form, and Detail. Boston: Houghton Mifflin, 1976. Print.
	Schofield, Janice J., and Richard W. Tyler. <i>Discovering Wild Plants: Alaska, Western Canada, the Northwest.</i> Anchorage: Alaska Northwest, 1989. Print.
	Turner, Mark, and Phyllis Gustafson. <i>Wildflowers of the Pacific Northwest</i> . Portland: Timber, 2006. Print.
	"Tropicos   Name - Juncus Mertensianus Bong." <i>Tropicos - Home</i> . Web. 18 May 2011. http://www.tropicos.org/Name/16900159.
Protocol Author	Austin Dickson
Date Protocol Created or	05/18/11
Updated	

Note: This template was modified by J.D. Bakker from that available at: http://www.nativeplantnetwork.org/network/SampleBlankForm.asp