

**Plant Propagation Protocol for *Pseudoroegneria spicata* (Pursh) A.
Löve ssp. *inermis* (Scribn. & J.G. Sm.) A. Löve
ESRM 412 – Native Plant Production**

TAXONOMY	
Family Names	
Family Scientific Name:	Poaceae (2)
Family Common Name:	Grasses (1)
Scientific Names	
Genus:	Pseudoroegneria (2)
Species:	<i>Pseudoroegneria spicata</i> (Pursh) A. Löve (2)
Species Authority:	
Variety:	
Sub-species:	<i>Pseudoroegneria spicata</i> (Pursh) A. Löve ssp. <i>inermis</i> (Scribn. & J.G. Sm.) A. Löve (2)
Cultivar:	Whitmar (4)
Authority for Variety/Sub-species:	
Common Synonym(s) (include full scientific names (e.g., <i>Elymus glaucus</i> Buckley), including variety or subspecies information)	AGIN5 <i>Agropyron inerme</i> (Scribn. & J.G. Sm.) Rydb. AGSPI <i>Agropyron spicatum</i> Pursh var. <i>inermis</i> (Scribn. & J.G. Sm.) A. Heller (2)
Common Name(s):	Beardless Wheatgrass (2)
Species Code (as per USDA Plants database):	Taxonomic Serial Number: 524599 Symbol: PSSPI (2)
GENERAL INFORMATION	
Geographical range (distribution maps for North America and Washington	In the United States: CO, ID, MT, NE, NM, NV, OR, TX, UT, WA, WY) In Canada: (AB, BC) (2)

state)	
Ecological distribution (ecosystems it occurs in, etc):	Grasslands of fine, course, or medium grained soils, with a pH between 6.4 and 8.4 (4)
Climate and elevation range	Grows best in temperatures above -36 degrees F, with an annual precipitation between 10” and 35”. It uses relatively low amounts of moisture, and has a high tolerance to drought. It is intolerant to shade, and has a low tolerance to salinity. (4) Can tolerate rocky soils, steep slopes, and fire (5).
Local habitat and abundance; may include commonly associated species	“It is very compatible with slower developing native species, such as thickspike wheatgrass (<i>Elymus lanceolatus</i>), western wheatgrass (<i>Pascopyrum smithii</i>), and needlegrass species (<i>Achnatherum</i> spp., <i>Nassella</i> spp., and <i>Hesperostipa</i> spp.). (5) Species often associated with beardless wheatgrass include the following: the big sagebrush complex, juniper, ponderosa pine, needlegrasses, bluegrass complex, bottlebrush squirreltail, prairie junegrass, thickspike wheatgrass, Idaho fescue, arrowleaf balsamroot, and tapertip hawksbeard. “(5).
Plant characteristics	Is a grass that has yellow flowers and green foliage (4).It grows in bunches, reaching a mature height of 1 ½ -4 feet (5). It produces a relatively large abundance of seeds, but its spread rate is slow.
PROPAGATION DETAILS	
Propagation Goal	Used in rangeland restoration, as browse for wildlife, livestock and equines, and erosion control (6).
Propagation Method (Options: Seed or Vegetative):	Seed (4)
Product Type	Seeding occurs over open areas of ground at a rate of 7 lbs PLS/acre (5).
Time to Grow	Before allowing animals to graze a newly planted field, at least six inches of growth should be established. This grass is not competitive until well-established, so it is vulnerable to competition from introduced species in early phases. A combination of swathing and combining works well as a harvesting technique. (5).

Propagule	This grass is long-lived, and develops an extensive root system (5). Generally, there are 145,000 seeds per lb (4). “Row spacing of 24 to 36 inches are recommended under irrigation and 36 inches under dryland conditions” (5).
Pre-Planting Propagule Treatments	Some strains of Bearded Wheatgrass have large recognizable awns that are easy to clean, but <i>Pseudoroegneria spicata inermis</i> does not have easily distinguishable seeds (6,2).
Length of Establishment Phase:	It blooms in early spring, and its seed period lasts throughout the summer.
Active Growth Phase (from germination until plants are no longer actively growing):	Has an active growth period in the spring, summer and fall.
INFORMATION SOURCES	
References (full citations):	<ol style="list-style-type: none"> 1 . Poaceae. (2009, April 13). In <i>Wikipedia, The Free Encyclopedia</i>. Retrieved &ltcitation>00:02, April 13, 2009</citation>, from http://en.wikipedia.org/w/index.php?title=Poaceae&oldid=283458257 2. United States Department of Agriculture. Natural Resources Conservation Service. Plants Profile <i>Pseudoroegneria spicata</i> (Pursh A. Löve ssp. <i>inermis</i> (Scribn. & J.G. Sm.) A. Löve 3. Biology Online. 2009, April 13. http://www.biology-online.org/dictionary/Graminoid 4. USDA Natural Resources Conservation Service. Characteristics. 2009, April 13. http://plants.usda.gov/java/charProfile?symbol=PSSPI 5. USDA. NRCS. Plant Guide. Bearded Wheatgrass. 2009, April 13. http://plants.usda.gov/plantguide/pdf/pg_psspi.pdf 6. USDA. NRCS. Aberdeen Plant Materials Center. 2004 Annual Technical Report. 2009, April13. http://plant_materials.nrcs.usda.gov/pubs/idpmctr5864.pdf. March 2005
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and last name):	
Date Protocol Created or Updated (MM/DD/YY):	04/15/09

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