


## Plant Propagation Protocol for *Carex aenea*

ESRM 412 – Native Plant Production

Protocol URL: [https://courses.washington.edu/esrm412/protocols/\[CAAE.pdf\]](https://courses.washington.edu/esrm412/protocols/[CAAE.pdf])

TAXONOMY	
Plant Family	
Scientific Name	Cyperaceae
Common Name	Sedge family
Species Scientific Name	
Scientific Name	<i>Carex aenea</i> Fernald
Varieties	N/A
Sub-species	N/A
Cultivar	N/A
Common Synonym(s)	<i>Carex siccata</i> Dewey <i>Carex foenea</i> Willd. <i>Carex foenea</i> Willd. var. <i>enervis</i> Evans & Mohlenbr. <i>Carex foenea</i> Willd. var. <i>foenea</i> <i>Carex foenea</i> Willd. var. <i>tuberculata</i> F.J. Herm.
Common Name(s)	Bronze Sedge, Dryspike Sedge
Species Code (as per USDA Plants database)	CAAE
GENERAL INFORMATION	
Geographical range	

	<p>Symbol: CASI12</p> <p>USDA-NRCS-NGCE</p> <p>Legend:</p> <ul style="list-style-type: none"> <li>Native</li> <li>Introduced</li> <li>Both</li> <li>Absent/Unreported</li> <li>Native, No County Data</li> <li>Introduced, No County Data</li> <li>Both, No County Data</li> </ul>
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Ecological distribution	Open, dry-moist forests, meadows clearings, often grows in profusion in disturbed areas. <sup>3</sup>
Climate and elevation range	Scattered and low to middle elevations: mostly in inland portions of our region, up to 3600 meters <sup>4</sup>
Local habitat and abundance	Sunny areas: dry, sandy or rocky soils, prairies <sup>1</sup>
Plant strategy type / successional stage	
Plant characteristics	Grass/grass-like plant with spikey inflorescence. Densely tufted, with wiry stems 30-100 cm tall, which tend to bent over at the tip. <sup>3</sup>
<b>PROPAGATION DETAILS</b>	
Ecotype	
Propagation Goal	Seed
Propagation Method	Seed
Product Type	Container
Stock Type	Cone-tainer
Time to Grow	
Target Specifications	High germination and dormancy, producing seed for testing.
Propagule Collection Instructions	Fruit from population hand collected in late June- mid July
Propagule Processing/Propagule Characteristics	
Pre-Planting Propagule	Cold-moist stratification shown to improve germination rates for

Treatments	4 weeks. Seeds sown close to surface due for light.
Growing Area Preparation / Annual Practices for Perennial Crops	
Establishment Phase Details	Once seeded, kept in greenhouse and watered with an overhead mist system to prevent seed displacement.
Length of Establishment Phase	2 weeks
Active Growth Phase	After germination seedlings are kept in greenhouse with natural light and a steady temperature of about 78 degrees.
Length of Active Growth Phase	2 months
Hardening Phase	Transplant seedlings to plots with silty clay loam in about 8 inch intervals from each other. Transplanting ideal during time with many days with mild nighttime temperatures to reduce frost.
Length of Hardening Phase	
Harvesting, Storage and Shipping	Hand or combine harvested, then hand screened to obtain flower and fruit. Air dried.
Length of Storage	
Guidelines for Outplanting / Performance on Typical Sites	
Other Comments	This propagation information is not complete and is derived from other species of the same genus, and has not been experimentally tested for this particular species.
<b>INFORMATION SOURCES</b>	
References	<p><sup>1</sup> "Carex Siccata (Dry-spike Sedge)." <i>Minnesota Wildflowers</i>. N.p., n.d. Web. 04 June 2017. &lt;<a href="https://www.minnesotawildflowers.info/grass-sedge-rush/dry-spike-sedge">https://www.minnesotawildflowers.info/grass-sedge-rush/dry-spike-sedge</a>&gt;.</p> <p><sup>2</sup> Houseal, Greg A., and Daryl D. Smith. <i>Upland Sedge (Carex Spp.) Propagation for Seed Increase</i> (2010): n. pag. Web. 03 June 2017. &lt;<a href="https://tallgrassprairiecenter.org/sites/default/files/pdfs/upland_sedge_prop_winona_napc.pdf">https://tallgrassprairiecenter.org/sites/default/files/pdfs/upland_sedge_prop_winona_napc.pdf</a>&gt;.</p> <p><sup>3</sup> MacKinnon, A., and Jim Pojar. <i>Plants of the Pacific Northwest Coast</i>. Vancouver, British Columbia: Partners, 2016. Print.</p> <p><sup>4</sup> <i>Plant Detail: Carex Siccata (dry Spike Sedge, Hay Sedge, Hillside Sedge, Running Savanna Sedge, Sandbank Sedge, Fernald's Haysedge)</i>. N.p., n.d. Web. 04 June 2017. &lt;<a href="https://nativeplants.evergreen.ca/search/view-plant.php?ID=05127">https://nativeplants.evergreen.ca/search/view-plant.php?ID=05127</a>&gt;.</p>

	<sup>5</sup> USDA, NRCS. 2001. The PLANTS Database, version 3.1. ( <a href="http://plants.usda.gov">http://plants.usda.gov</a> ) National Plant Data Center, Baton Rouge, LA. 70874-4490.
Other Sources Consulted	<p>Robson, Kathleen A., Alice Richter, and Marianne Filbert. <i>Encyclopedia of Northwest Native Plants for Gardens and Landscapes</i>. Portland, Or.: Timber, 2008. Print.</p> <p>Young, James Albert, and Cheryl G. Young. <i>Collecting, Processing and Germinating Seeds of Wildland Plants</i>. Portland, OR: Timber, 1995. Print.</p>
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