Plant Propagation Protocol for *Carex canescens* ESRM 412 – Native Plant Production

Protocol URL: https://courses.washington.edu/esrm412/protocols/

The plant and Pacific Northwest distribution



http://hasbrouck.asu.edu/imglib/seinet/Cyperaceae/Carex-canescens-F-web-6-0.jpg

TAXONOMY		
Plant Family	Cyperaceae (USDA, 2016).	
Scientific Name	Carex canescens (USDA, 2016).	
Common Name	Silvery Sedge (USDA, 2016).	
Species Scientific	Canescens (USDA, 2016).	
Name		
Scientific Name	Carex canescens L.	
Genus	Carex	
Species	canescens	
Species Authority	Perennial (USDA, 2016).	
Varieties	Carex canescens var. canescens,	
	Carex canescens var. robustior Blytt ex (USDA, 2016).	
Sub-species	Carex canescens L. ssp. disjuncta (Fernald)	
	Carex canescens ssp. canescens,	
	Toivonen, Carex lapponica O.F. Lang. (USDA, 2016).	
Cultivar		
Common Synonym(s)	Vignea canescens (L.) Rchb.	
	Caricina canescens (L.) StLag.	
	(USDA, 2016).	
Common Name(s)	gray bog sedge	
	gray sedge	

	Τ ,
	grey sedge
	disjunct hoary sedge
	silvery sedge
	carex disjoint (Michelle, 2008).
Species Code (as per	CACA11 (USDA, 2016).
USDA Plants	
database)	
	GENERAL INFORMATION
Geographical range	A NRCS I PLANTS.
	(USDA 2016)
	(USDA, 2016).
	The plant spreads through Ames Lake, Big Bear Creek, Cherry Creek,
	East Lake Washington, West Lake Washington, Evans Creek Griff Creek,
	Harris Creek, Lower Green River, Lower Puget Sound, Maury Island,
	Middle Green River, Juanita Creek, Little Bear Creek, McAleer Creek,
	Middle Puget Sound, Sammamish River, Snoqualmie River, Swamp
	Creek, Thornton Creek, East Fork Issaquah Creek, East Lake
	Sammamish, California, North America and beyond (USDA, 2016).
Ecological	The silvery sedge thrives in damp forests, wetlands, freshwater marshes,
distribution	alpine meadows and swamps.
Climate and elevation	I survive in Rainy and low plains; areas with an elevation of between 0-
range	3000 feet and a mean temperature range of 10° F to 40° F (Michelle,
	2008).
Local habitat and	The sledge is native and abounds in temperate peat swamps and bogs,
abundance	lowlands basin mires, wet and acid bogs, occasionally in sandy heaths.
acundance	These include Austria, East European Russia, Germany, Netherland and France (Michelle, 2008).
Plant strategy type /	Low in seeds but can become a stressful weed. Compete with plants such
successional stage	as <i>Alopecurus aequalis</i> and <i>Ranunculus flammula</i> (Michelle, 2008).
Plant characteristics	Has active period of growth at summer and spring, regrowth rate is slow
	after harvest, C: N ratio is medium, rhizomatous growth form, a mature

	height of 2 feet, has a long lifespan and generally blooms at late spring
	(Gregory & Nortcliff, 2013). PROPAGATION DETAILS
Easterna	
Ecotype	Bogs and wet soils
D C 1	(Michelle, 2008).
Propagation Goal	Plant
	(Michelle, 2008).
Propagation Method	Seed
	(Michelle, 2008).
Product Type	Container (Plug)
	(Michelle, 2008).
Stock Type	Not type of stock was identified on literature search.
Time to Grow	Plant should be monitored for growth at spring and summer (Gregory &
	Nortcliff, 2013).
Target Specifications	2 to 2 half feet tall
	(Gregory & Nortcliff, 2013).
Propagule Collection	Seed should be soaked within 24 hours before planting them in a moist
Instructions	soil (Gregory & Nortcliff, 2013).
Propagule	Seeds grow in bulk after the late spring blooming period (Michelle,
Processing/Propagu	2008).
le Characteristics	
Pre-Planting	The seeds have physiological dormancy. However, presence of moisture
Propagule	during germination would reduce the dormancy. Seeds were cold
Treatments	stratified for 30 days. Seeds germinate at alternating temperatures of
	20/10 C in the presence of light (Dumroese, Luna, Landis & US, 2009).
Growing Area	The area for well growth of grey sedge should be moist with medium
Preparation /	acidity condition and lots of organic compounds. Also, just enough
Annual Practices	sunlight will hasten growth (Michelle, 2008).
for Perennial Crops	
Establishment Phase	After growing mature seeds, growth of viable seeds may be deterred by
Details	the nature of soil, human activity and lack of sufficient light (Michelle,
	2008).
Length of	From the time of sowing, mature seeds take about 10 days to start
Establishment	germinating. Germination is generally slow (Dumroese et. al., 2009).
Phase	
Active Growth Phase	The growth from germination to maturity is very slow. Active growth
	phase is between the 10 th day and the 2 nd month, after which the growth
	slows down for the maturity of the seeds (Dumroese et. al., 2009).
Length of Active	3 months
Growth Phase	(Dumroese et. al., 2009).
Hardening Phase	
Length of Hardening	1 month
Phase	(Dumroese et. al., 2009).
Harvesting, Storage	Harvesting must occur within the prescribed time, seeds storage may be in
and Shipping	soils. Planned shipping is often within the states (Dumroese et. al., 2009).

Length of Storage	Between 4 to 16 weeks before out-planting. This is when the lengths are	
G : 1 1:	about 10cm or slightly more (Dumroese et. al., 2009).	
Guidelines for Out	Out plant at when the plant heights are between 10 to 20 cm.	
planting /		
Performance on		
Typical Sites		
Other Comments	Cold stratification is often required, planting density per acre lie between 1700 to 4800 plants (Salley, Talbot & Brown, 2016).	
INFORMATION SOURCES		
References	Dumroese, R. K., Luna, T., Landis, T. D., & United States. (2009).	
	Nursery manual for native plants: A guide for tribal nurseries.	
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	Salley, S. W., Talbot, C. J., & Brown, J. R. (2016). The Natural	
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	United States Department of Agriculture. (2016). Plants Profile	
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Other Sources Consulted	
Protocol Author	Qiao Li
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