

Plant Propagation Protocol for *Scirpus cyperinus*

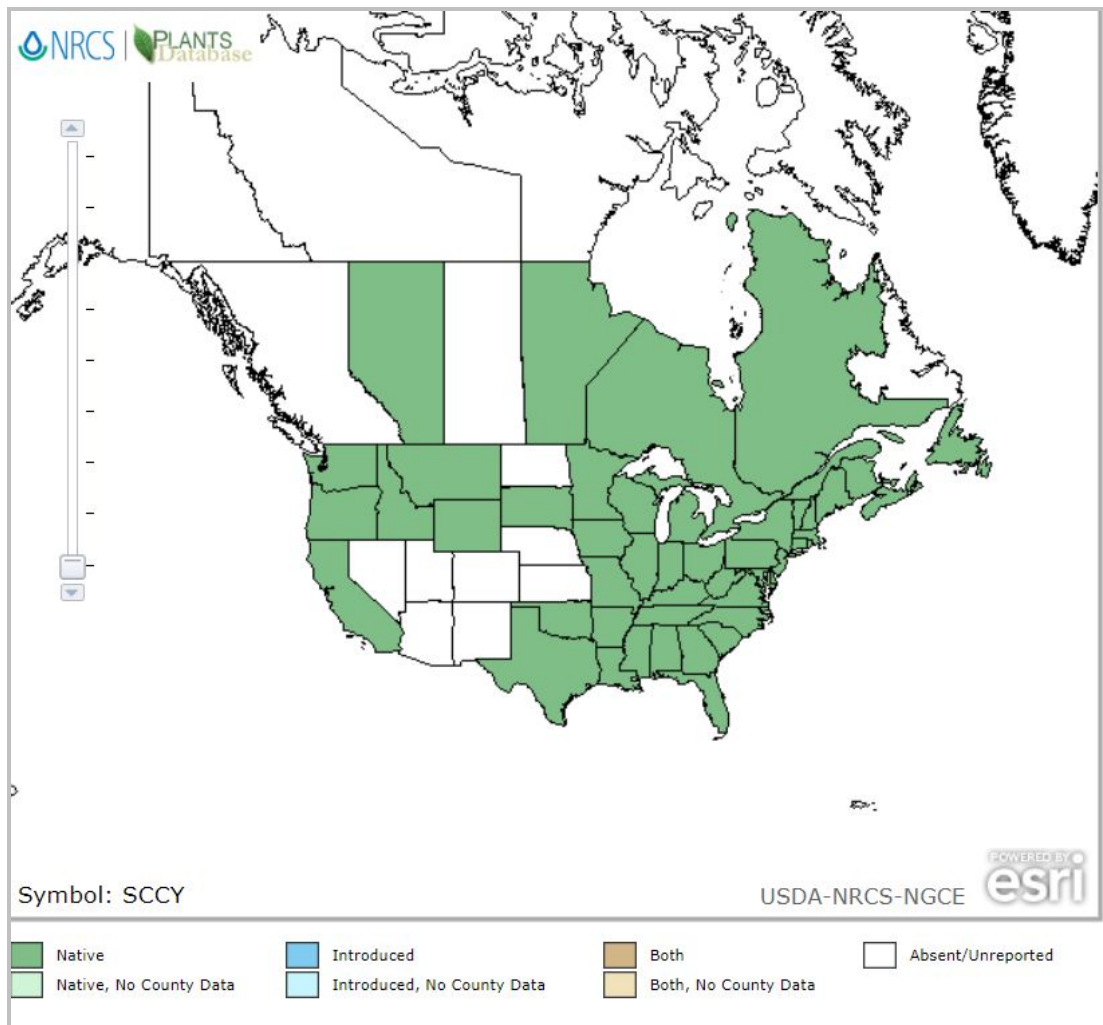
ESRM 412 – Native Plant Production

Protocol URL: <https://courses.washington.edu/esrm412/protocols/SCCY.pdf>

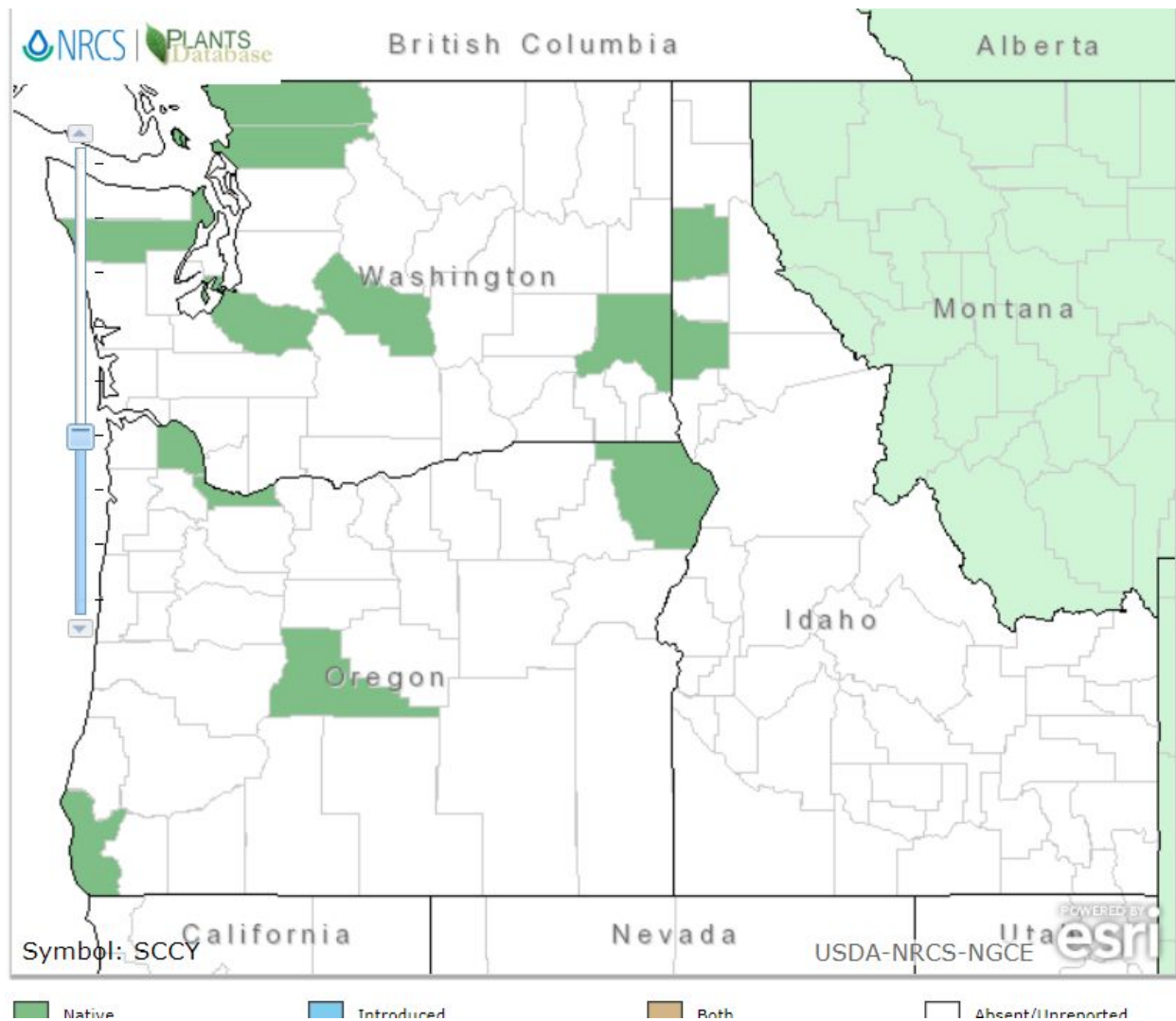
Plant pictured:



North American distribution:



Pacific Northwest distribution:



Source: USDA Plant Database

TAXONOMY ₁	
Plant Family	
Scientific Name	Cyperaceae
Common Name	Sedges
Species Scientific Name	
Scientific Name	<i>Scirpus cyperinus</i> (L.) Kunth
Varieties	N/A
Sub-species	N/A
Cultivar	N/A
Common Synonym(s)	<ol style="list-style-type: none"> 1. <i>Scirpus rubricosus</i> Fernald 2. <i>Scirpus eriophorum</i> Michx.

	3. <i>Scirpus cyperinus</i> (L.) Kunth var. <i>rubricosus</i> (Fernald) Gilly 4. <i>Scirpus cyperinus</i> (L.) Kunth var. <i>pelius</i> Fernald 5. <i>Scirpus cyperinus</i> (L.) Kunth var. <i>laxus</i> (A. Gray) Beetle 6. <i>Scirpus cyperinus</i> (L.) Kunth var. <i>eriphorum</i> (Michx.) Kunth 7. <i>Scirpus cyperinus</i> (L.) Kunth var. <i>condensatus</i> Fernald
Common Name(s)	Woolgrass
Species Code (as per USDA Plants database)	SCCY
GENERAL INFORMATION_{1,2,3,5}	
Geographical range	Found across the US, map of geographical range found above.
Ecological distribution	Occurs in tidal marshes, inland marshes, wetlands and swamps. Grows best in areas with wet soil.
Climate and elevation range	Occurs in places with wet soil. 0-800m in elevation.
Local habitat and abundance	Thrives in wet soil, marshes, wetlands, and swamps.
Plant strategy type / successional stage	No plant strategy type information could be found.
Plant characteristics	Perennial Sedge that is native to many parts of north america. It grows to be 3-5 feet tall and has a spread of 2-4 feet. It has green leaves and blooms in the late summer. Made up of an aggregate of dense tussocks of rhizomes branching with 5-10 leaves per culm.
PROPAGATION DETAILS_{4,6}	
Ecotype	N/A
Propagation Goal	Plants
Propagation Method	Seeds
Product Type	Container (plug)
Stock Type	1+0 containers
Time to Grow	6 months
Target Specifications	No information found.
Propagule Collection Instructions	Harvest seeds in mid to late september when seeds are fully mature but have not been damaged. Collect by pulling or cutting fruit clusters from stems.
Propagule Processing/Propagule Characteristics	Seed Density: 36000000 per lb Seed longevity: At least 6 months in dry bag Seed Dormancy: Physical dormancy Seeds cleaned with a brush machine and wire mesh.
Pre-Planting Propagule Treatments	Seeds can be stored in ziplock bags containing sphagnum peat moss kept at 5.5 degrees celsius or in

	cold water kept at 5.5 degrees celsius. These methods act as the stratification process.
Growing Area Preparation / Annual Practices for Perennial Crops	Sow in a sphagnum peat moss medium with about 25% sand growing medium with Osmocote at 21 degrees celsius. Pasteurize the sand in an electric soil sterilizer for 30 minutes at 82 degrees celsius to reduce weeds.
Establishment Phase Details	For the highest germination percentages use a ebb and flow greenhouse bench to saturate the medium. Maintain the water level at 0.6-1.2 cm. Greenhouse temperature can range from 13-38 degrees celsius during the germination period.
Length of Establishment Phase	3 weeks
Active Growth Phase	Seedling growth is best on normal greenhouse benches in saturated medium. The seedlings are now more resistant to drying out but still need to be often watered.
Length of Active Growth Phase	No information found.
Hardening Phase	No information found.
Length of Hardening Phase	No information found.
Harvesting, Storage and Shipping	No information found.
Length of Storage	6 months
Guidelines for Outplanting / Performance on Typical Sites	Sow seeds once they are well established in the summer.
Other Comments	N/A
INFORMATION SOURCES	
References	See below
Other Sources Consulted	See below
Protocol Author	Jacob Kizer
Date Protocol Created or Updated	5/29/19

References:

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2. *Scirpus cyperinus*. (n.d.). Retrieved May 28, 2019, from <http://www.missouribotanicalgarden.org/PlantFinder/PlantFinderDetails.aspx?taxonid=279753&isprofile=0&>
3. “*Scirpus cyperinus*.” (Floras of North America). Retrieved May 28, 2019, from http://www.efloras.org/florataxon.aspx?flora_id=1&taxon_id=242357960
4. Grabowski, Janet M.. 2001. Propagation protocol for production of Container (plug) *Scirpus cyperinus* L. Kunth plants 1+0 container; USDA NRCS - Coffeerville/Jamie L. Whitten Plant Materials Center Coffeerville, Mississippi. In: Native Plant Network. URL:

<http://NativePlantNetwork.org> (accessed 2019/05/28). US Department of Agriculture, Forest Service, National Center for Reforestation, Nurseries, and Genetic Resources.

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