

## Plant Materials Available for North Dakota, South Dakota, and Minnesota – 2017

Off-center evaluation of plant materials with conservation potential continues to be actively promoted by the Bismarck Plant Materials Center. Following is a list of herbaceous plant materials being offered in 2017. Detailed species information can be found on pages 2-3. No woody species will be offered in 2017 for off-center field plantings. Evaluation should continue however, for all active woody field plantings established from 2013 through 2016.

Name	Species	Type	Material	Maximum Amount/planting	To Request Material
Cupplant	<i>Silphium perfoliatum</i>	Forb	Seed	5 PLS pounds per state	<a href="#">NRCS-ECS-9 form</a>
Prairie cordgrass	<i>Spartina pectinata</i>	Grass	Plants	25	<a href="#">NRCS-ECS-9 form</a>
Sweetgrass*	<i>Hierochloe odorata</i>	Grass	Plants	10	<a href="#">Request form (page 4)</a>

\* sweetgrass requires no evaluation

### Field Planting Responsibility:

Plant Materials Center	Producer/NRCS/Conservation District
Ship or deliver seed/plants to field office	Planting or seeding
Provide evaluation form annually	Complete evaluation form (3 years); cupplant, prairie cordgrass
Assistance with evaluation when possible	Send completed evaluation form to your State contact

Send request forms and completed evaluation forms to the contact in your state listed below:

Minnesota (before November 21, 2016)	North Dakota (before November 21, 2016)	South Dakota (before December 19, 2016)
Mark Oja USDA, NRCS 375 Jackson Street, Suite 600 St. Paul, MN 55101 <a href="mailto:mark.oja@mn.usda.gov">mark.oja@mn.usda.gov</a>	Wayne Markegard USDA, NRCS, PMC 3308 University Drive Bismarck, ND 58504 <a href="mailto:wayne.markegard@nd.usda.gov">wayne.markegard@nd.usda.gov</a>	Tim Nordquist USDA, NRCS Field Support Service Center 414 E Stumer Rd, Suite 700 Rapid City, SD 57701 <a href="mailto:timothy.nordquist@sd.usda.gov">timothy.nordquist@sd.usda.gov</a>

Requests will be reviewed at each State's Annual Plant Materials Technical Committee meeting. While the PMC will try to meet all needs, some may be denied due to limited seed and plant quantities. Each office requesting material will be notified of the status of their request.

**Special Plantings:** Requests for other plant materials will be considered for demonstration, education, and research.

**Foundation Seed Production:** Foundation seed is available to anyone interested in producing conservation grass and forb seed.

For more information on Special plantings, Foundation Seed Production or Field Plantings, contact Wayne Markegard, Plant Materials Specialist at [wayne.markegard@nd.usda.gov](mailto:wayne.markegard@nd.usda.gov) or contact the Plant Materials Center at 701-250-4330.

## I. Field Plantings

**Cupplant** (*Silphium perfoliatum*) 9094396

**Purpose:** Wildlife (WLDF); vegetative buffer

**Description:** Cupplant is a perennial native forb that grows up to eight feet tall. It has square stems and leaves that are mostly opposite, egg-shaped, toothed, with cuplike bases that hold water. The flower heads are rich, golden yellow, 2.5 centimeters in diameter, and closely grouped at the tips of the stems.

**Adaptation:** Cupplant occurs on low ground, in moist areas, along prairie streams, alluvial thickets, floodplains, and along the edges of wet woodlands. This species is found throughout the tall grass region, but is more sporadic northward. Flowers appear in late July through September and are especially attractive to numerous pollinator insects, red aphids, and hummingbirds. A seeding rate (at 22,400 seeds/pound) of 10 PLS pounds/acre will result in approximately 5 plants/ft<sup>2</sup>.

### Suggested plantings (mix or solid seeding)

- Companion in grass/forb mix; pollinator mixes
- Companion in a vegetative buffer seed mix

### Seeding Season

Spring, dormant (follow recommended dates in your state for forb plantings)

### Seeding Rate

State	PLS pounds/acre Full Rate	Seeds/ft <sup>2</sup> Full Rate	Recommended % in Mix
Minnesota	10.0	5	*
South Dakota	10.0	5	*
North Dakota	10.0	5	*

\*Dependent on other species in the mix

## II. Special Plantings

**Red River Germplasm prairie cordgrass 9065159**

**Purpose:** Wildlife (WLDF); riparian buffer, shoreline stabilization

**Plants/Site:** 25 plants

**MLRA preferred:** statewide (ND, SD, MN)

**Description:** Prairie cordgrass is a tall (6-8 feet), robust, perennial native grass. The leaf blades have sharp, serrated edges. The seedheads are composed of 10 to 20 spikes attached to the main stem. It has thick stems and a vigorous rhizomatous root structure. Seed typically matures within a week or two of frost. It is flat and paper-like with barbed awns that attach firmly to fur or fabric.

**Adaptation:** Prairie cordgrass grows throughout the Northeast, Great Lakes and Midwest states, and is typically found on lower, poorly drained soils along roadsides, ditches, streams, marshes and potholes. It also occurs in floodplains, wet meadows and dune areas. Prairie cordgrass grows well on seasonally dry sites, tolerates alkaline conditions and high water tables, but is intolerant of prolonged flooding. It establishes from seed, rhizome pieces, and transplants. It has proven useful in preventing erosion on earth-fill dams, spillways and drainage channels, providing good shoreline cover and wave energy dissipation. It forms thick stands around marshes, providing good cover for game birds, song birds and small mammals.

**Sweetgrass 9063128****Purpose:** Culturally Significant (CUSI)**Maximum Plants/Site:** 10 plants**MLRA preferred:** statewide (ND, SD, MN)

**Description:** Sweetgrass (*Hierochloe odorata*) is an early cool-season grass that is characteristic of wet, sandy soil near riverbanks and lakeshores. Uses of sweetgrass are numerous. The source of the sweetgrass aroma, which smells like vanilla, is called coumarin. This plant compound has been used for hundreds of years as a plant extract for both fragrance and medicinal use. Native American cultures burn braided sweetgrass twists in traditional ceremonies, using the sweet scented smoke as purifying incense. This accession of sweetgrass was originally collected along the Missouri River near Bismarck, North Dakota. Plants should be spaced 1 to 3 feet apart on a prepared garden-like site, and hand watered until established. Sweetgrass spreads rapidly by underground rhizomes. After establishment, plants increase rapidly if weeds are controlled. It is not unusual for 10 plants to increase to hundreds of plants the second year, and thousands of plants the third year. Successful plantings may be used as propagation beds after establishment. Plants will be shipped in small pots approximately 2 ½ inches square and 3 inches deep.

**III. Currently Available Foundation Seed for Certified Seed Production**

VARIETY	COMMON NAME
Native - Grasses	
Bad River ecotype	Blue grama
Badlands ecotype	little bluestem
Itasca germplasm	little bluestem
Bison	big bluestem
Bonilla	big bluestem
Bounty germplasm	big bluestem
Dacotah	switchgrass
Forestburg	switchgrass
Mandan	Canada wildrye
Pierre	sideoats grama
Red River germplasm	prairie cordgrass
Rodan	western wheatgrass
Native - Forbs/Legumes	
Medicine Creek germplasm	Maximilian sunflower
Introduced - Grasses	
Mankota	Russian wildrye
Manifest	intermediate wheatgrass
Manska	pubescent/intermediate wheatgrass
Nordan	crested wheatgrass

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**United States  
Department of  
Agriculture**

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**Plant Materials  
Program**

## Request for Plant Materials *(for Special/Tribal/Demonstration Plantings)*

Cooperator: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Date: \_\_\_\_\_

Contact Person: \_\_\_\_\_  
Phone Number: \_\_\_\_\_  
Cell Number: \_\_\_\_\_  
E-Mail Address: \_\_\_\_\_  
Fax Number: \_\_\_\_\_

**Transportation of Material *(check one)***

Pick-up

Delivery

Desired Delivery Date: \_\_\_\_\_

**Shipping Address *(if different from above)***

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Species	Material Type <i>(Seed/ Plugs/ Transplants)</i>	Quantity Needed
Sweetgrass	Plugs	

Species	Material Type <i>(Seed/ Plugs/ Transplants)</i>	Quantity Needed

**Please indicate other types of guidance or assistance that would be beneficial**  
*(e.g plant identification, site planning or establishment)*

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Sponsor Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**PMS Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

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