



Native Cultivars or Selections Information Sheet

Conservation Specification Information

(IS-MO723N)

NATIVE PLANT CULTIVARS AND SELECTIONS FOR USE IN MISSOURI

This guidance is to assist in the development of seeding plans designed with specific selections or cultivars that fit the soil and site conditions to ensure the selection of plants that are well suited for the desired result. Performance and adaptation of native cultivars/**selections** differ by point of collection. Natural selection occurs due to environmental conditions such as temperature, day length, growing season, etc. Experience has shown that seed from a native harvest can generally be moved about 300 miles north or 200 miles south of its collection site without serious adaptation difficulties. Movement east or west is influenced primarily by precipitation and elevation. An increase in 1000 feet in elevation is equivalent to a move of about 175 miles north of its collection site.

The following table details the acceptable cultivars/selections for use in planting native species in Missouri. If cultivars to be planted do not occur on this table, please check with your area resource conservationist or area biologist prior to planting.

It should be noted that the RESTORATION AND MANAGEMENT OF RARE OR DECLINING HABITATS (643) conservation practice standard requires Missouri source (native plant collection site) and origin (production location) seed. The following cultivars/selections are **NOT** to be used in the 643 practice.

RANKING BY INDIVIDUAL SPECIES

(TOP LISTED CULTIVAR OR SELECTION PRODUCES THE MOST BIOMASS)

NOTE: Acceptable cultivars/selections from this table or locally adapted seed grown in (origin) Missouri or adjacent states will be planted for these native species.

Native Species	Cultivar or Selection	Source of Collection
<i>BIG BLUESTEM</i>	Rountree	Western Iowa
	OZ-70 (south of I-70)	Southern Missouri, Northern Arkansas, Eastern Oklahoma, and Southern Illinois
	Kaw	Eastern Kansas
	Pawnee (north of I-70)	North Central Kansas and South Central Nebraska
	Champ	North Central Nebraska
<i>LITTLE BLUESTEM</i>	Cimarron (south of I-70) (sandy sites only)	Southwest Kansas and Panhandle Oklahoma
	Aldous	Eastern Kansas
	Camper (north of I-70)	North Central Kansas and South Central Nebraska



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Native Species	Cultivar or Selection	Source of Collection
<i>EASTERN GAMAGRASS</i>	Pete	Kansas and Oklahoma
	PMK-24	Kansas and Oklahoma
	Highlander (South of I-70)	West Tennessee
<i>SIDEOATS GRAMA</i>	Butte (north of I-70)	North Central Nebraska
	Trailway	North Central Nebraska
	El Reno	Central Oklahoma
<i>VIRGINIA WILDRYE</i>	Cuivre River	Eastern Missouri - Lincoln Co.
	O'Ma'Ha (north of I-70)	East and Northeast Nebraska
<i>INDIANGRASS</i>	Rumsey	Southern Illinois
	Osage	Eastern and Central Kansas and Oklahoma
	Cheyenne	Western Oklahoma
	Nebraska 54 (north of I-70)	Nebraska
<i>SWITCHGRASS</i>	Kanlow (lowland sites)	East Central Oklahoma
	Alamo (lowland sites south of I-70)	South Central Texas
	Blackwell	North Central Oklahoma
	Cave-In-Rock	Southern Illinois
	Pathfinder (north of I-70)	Central Nebraska
	Trailblazer (north of I-70)	Selection from Pathfinder
	Nebraska 28 (north of I-70)	North Central Nebraska
<i>ILLINOIS BUNDLEFLOWER</i>	Reno Germplasm	Kansas
<i>PARTRIDGE PEA</i>	Riley	Kansas
	Lark Selection	Arkansas
<i>PURPLE PRAIRIECLOVER</i>	Kaneb	Kansas
<i>ROUNDHEADED BUSHCLOVER</i>	Kanoka	Kansas, Nebraska, Oklahoma
<i>SHOWY TICKTREFOIL</i>	Alexander Germplasm	Illinois
<i>GRAYHEADED CONEFLOWER</i>	Sunglow	Source Unknown – Released by Kansas
<i>PALE PURPLE CONEFLOWER</i>	NA	
<i>OX-EYE FALSESUNFLOWER</i>	Midas	Kansas
<i>WILD BERGAMOT</i>	NA	

NA – None Available



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The following tables provide additional information for a limited number of the cultivars or selections listed in the table. Comparative information is not currently available for all species. For detailed information on species shown in this information sheet see - <http://plants.usda.gov/characteristics.html>

Big Bluestem (*Andropogon gerardii*) cultivars

(The OZ-70 selection is not displayed in the following table; this selection was not compared to the other cultivars in the referenced trial.)

Location ¹ / Rating	Late Maturity ²	Dry Matter Yield ³	Percent Stand ⁴	Forage Quality ⁵
North Location				
Best Varieties	Pawnee Kaw Rountree	Rountree Pawnee	Rountree	
Good Varieties	Champ	Champ Kaw	Pawnee	
Central Location				
Best Varieties	Kaw	Champ	Rountree	Champ Rountree
Good Varieties	Pawnee Champ	Rountree Pawnee Kaw	Pawnee Kaw Champ	Kaw
South Location				
Best Varieties	Kaw	Kaw Rountree	Kaw Pawnee	
Good Varieties	Pawnee Rountree	Pawnee		

¹ Northern Location – Cedar Falls, Iowa; Central Location – Perry, Illinois; and Southern Location – Mount Vernon, Missouri

² Plant maturity was rated by when each variety first started to set seed. The majority of the plants in the plot were in late boot stage at this time. Later maturing varieties received the best ratings.

³ Dry matter yields were calculated in pounds per acre and similar yields were grouped together in this chart.

⁴ Percent stand is an indication of the quickness of establishment and stand persistence.

⁵ Forage quality was tested at the Central Location only for crude protein, Acid Detergent Fiber (ADF), and Neutral Detergent Fiber (NDF).



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Switchgrass (*Panicum virgatum*) cultivars

Location ¹ / Rating	Late Maturity ²	Dry Matter Yield ³	Percent Stand ⁴	Forage Quality ⁵
North Location				
Best Varieties	Kanlow Alamo	Kanlow Blackwell	Kanlow Alamo Cave-In-Rock	
Good Varieties	Blackwell Pathfinder	Alamo		
Central Location				
Best Varieties	Kanlow Alamo	Kanlow Alamo Blackwell	Kanlow Cave-In-Rock	Alamo Cave-In-Rock Kanlow
Good Varieties	Blackwell Cave-In-Rock Trailblazer	Cave-In-Rock Pathfinder	Nebraska 28 Blackwell	Pathfinder Nebraska 28 Trailblazer
South Location				
Best Varieties	Alamo Kanlow	Alamo Kanlow	Nebraska 28 Kanlow Pathfinder Trailblazer Alamo	
Good Varieties	Pathfinder Trailblazer Blackwell Cave-In-Rock	Pathfinder Cave-In-Rock Blackwell	Cave-In-Rock Blackwell	

¹ Northern Location – Cedar Falls, Iowa; Central Location – Perry, Illinois; and Southern Location – Mount Vernon, Missouri

² Plant maturity was rated by when each variety first started to set seed. The majority of the plants in the plot were in late boot stage at this time. Later maturing varieties received the best ratings.

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Indiangrass (*Sorghastrum nutans*) cultivars

(The Nebraska 54 cultivar is not displayed in the following table; this cultivar was not compared to the other cultivars in the referenced trial.)

Location ¹ / Rating	Late Maturity ²	Dry Matter Yield ³	Percent Stand ⁴	Forage Quality ⁵
North Location				
Best Varieties	Cheyenne Rumsey	Cheyenne Rumsey		
Good Varieties	Osage	Osage		
Central Location				
Best Varieties	Rumsey Cheyenne Osage	Rumsey	Rumsey	Osage Cheyenne
Good Varieties		Osage Cheyenne	Osage	Rumsey
South Location				
Best Varieties	Rumsey Osage	Osage Rumsey	Osage Cheyenne	
Good Varieties	Cheyenne	Cheyenne	Rumsey	

¹ Northern Location – Cedar Falls, Iowa; Central Location – Perry, Illinois; and Southern Location – Mount Vernon, Missouri

² Plant maturity was rated by when each variety first started to set seed. The majority of the plants in the plot were in late boot stage at this time. Later maturing varieties received the best ratings.

³ Dry matter yields were calculated in pounds per acre and similar yields were grouped together in this chart.

⁴ Percent stand is an indication of the quickness of establishment and stand persistence.

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Little Bluestem (*Schizachrium scoparium*) cultivars

Location ¹ / Rating	Late Maturity ²	Dry Matter Yield ³	Percent Stand ⁴	Forage Quality ⁵
North Location				
Best Varieties	Aldous	Cimarron	Aldous	
Good Varieties	Cimarron Camper	Aldous Camper	Cimarron	Aldous
Central Location				
Best Varieties	Aldous Cimarron	Cimarron	Aldous	
Good Varieties	Camper	Camper	Camper Cimarron	Camper Cimarron
South Location				
Best Varieties	Aldous	Cimarron	Cimarron	
Good Varieties	Cimarron Camper	Aldous Camper	Camper Aldous	

¹ Northern Location – Cedar Falls, Iowa; Central Location – Perry, Illinois; and Southern Location – Mount Vernon, Missouri

² Plant maturity was rated by when each variety first started to set seed. The majority of the plants in the plot were in late boot stage at this time. Later maturing varieties received the best ratings.

³ Dry matter yields were calculated in pounds per acre and similar yields were grouped together in this chart.

⁴ Percent stand is an indication of the quickness of establishment and stand persistence.

⁵ Forage quality was tested at northern and central locations for crude protein, Acid Detergent Fiber (ADF), and Neutral Detergent Fiber (NDF).



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Cultivar Characteristics: Average **Forage** Plant Height in Feet

Species and Cultivar/Selection	Southern Location (Mt. Vernon, MO)	Central Location (Perry, IL)	Northern Location (Cedar Falls, IA)
Big bluestem			
Champ	4.1	4.1	4.0
Kaw	5.4	4.0	3.7
OZ-70	*	*	*
Pawnee	4.8	3.4	3.8
Rountree	5.6	4.3	4.4
Switchgrass			
Alamo	6.0	4.6	4.9
Blackwell	4.1	4.0	3.9
Cave-In-Rock	4.5	4.0	4.8
Kanlow	5.7	5.7	5.3
Nebraska 28	3.7	3.1	3.9
Pathfinder	4.1	3.7	3.9
Trailblazer	4.2	3.8	3.7
Indiangrass			
Cheyenne	4.4	4.3	4.0
Nebraska 54	*	*	*
Osage	4.5	4.2	3.6
Rumsey	5.0	5.3	4.0
Little bluestem			
Aldous	3.7	3.1	3.0
Camper	3.3	2.7	2.7
Cimarron	3.3	2.9	3.6
Sideoats grama			
El Reno	2.3	*	*
Trailway	2.1	*	1.8
Eastern gamagrass			
Pete	3.0	*	4.2

* No comparative data available for these grass species or for the forbs and legume species listed on page 2 of this information sheet.

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