

Memo

To: MnDOT Approved Seed Vendors

From: Ken Graeve
Erosion and Stormwater Management Unit Supervisor

Date: March 1, 2018

Annual re-set of the seed substitution table

The newly re-set seed substitution table is attached. The listed substitutions are authorized for use, effective today. This table is also known as the Native Seed Mixture Component Requirements table and is available online at <http://www.dot.state.mn.us/environment/erosion/seedmixes.html>

Seed Mixture Component Requirements (21-000 and 22-000 series mixes)

Requirements are in effect until revised by Mn/DOT. Always consult website to determine current requirements. **Most recent substitutions are highlighted in orange.**

Specifications				Authorized Substitution				
Common Name	Scientific Name	Acceptable Varieties/Origin	Certification Required	Common Name	Scientific Name	Acceptable Varieties/Origin	Certification Required	Authorization Date
Alfalfa, annual	<i>Medicago sativa</i>	Beacon, Condor, Coronado, El Grande, Maricopa, Mecca, Mesa, Nitro, Prestige, Sundor, Tulane, Westar	Yes	Alfalfa, annual	<i>Medicago sativa</i>	Beacon, Condor, Coronado, El Grande, Maricopa, Mecca, Mesa, Nitro, Prestige, Sundor, Tulane, Westar	No*	3/1/2018
Alfalfa, creeping	<i>Medicago sativa</i>	Rambler, Rangelander, Spredor 2, Spyder, Teton, Travois, Victoria	Yes	Alfalfa, creeping	<i>Medicago sativa</i>	Rambler, Rangelander, Spredor 2, Spyder, Teton, Travois, Victoria	No*	3/1/2018
Alfalfa, perennial	<i>Medicago sativa</i>	Vernal	Yes	Alfalfa, perennial	<i>Medicago sativa</i>	Vernal	No*	3/1/2018
Big Bluestem	<i>Andropogon gerardi</i>	***	Yes	Big Bluestem	<i>Andropogon gerardi</i>	***	No*	3/1/2018
Brome, smooth	<i>Bromus inermis</i>	Carlton, Lincoln, Manchar, Sac, Signal	Yes	Brome, smooth	<i>Bromus inermis</i>	Carlton, Lincoln, Manchar, Sac, Signal	No*	3/1/2018
				Brome, meadow	<i>Bromus biebersteinii</i>	***	No*	3/1/2018
Clover, alsike	<i>Trifolium hybridum</i>	***	Yes	Clover, alsike	<i>Trifolium hybridum</i>	***	No*	3/1/2018
Field Pea	<i>Pisum sativum</i>	***	Yes	Field Pea	<i>Pisum sativum</i>	***	No*	3/1/2018
Oats	<i>Avena sativa</i>	***	Yes	Oats	<i>Avena sativa</i>	***	No*	3/1/2018
Red clover	<i>Trifolium pratense</i>	Arlington, Dynamite, Lakeland, Marathon, Red Gold	Yes	Red clover	<i>Trifolium pratense</i>	Arlington, Dynamite, Lakeland, Marathon, Red Gold	No*	3/1/2018
Ryegrass, perennial	<i>Lolium perenne</i>	***	Yes	Ryegrass, perennial	<i>Lolium perenne</i>	***	No*	3/1/2018
Vetch, american	<i>Vicia americana</i>	***	Yes	Vetch, american	<i>Vicia americana</i>	***	No*	3/1/2018
				Canada milkvetch	<i>Astragalus canadensis</i>	***	No*	3/1/2018
				Purple Prairie Clover	<i>Dalea purpurea</i>	***	No*	3/1/2018
Wheat, winter	<i>Triticum aestivum</i>	***	Yes	Wheat, winter	<i>Triticum aestivum</i>	***	No*	3/1/2018
Wheatgrass, slender	<i>Elymus trachycaulis</i>	Pryor, Revenue	Yes	Wheatgrass, slender	<i>Elymus trachycaulis</i>	Pryor, Revenue	No*	3/1/2018

*Certification may be required through special provision

*** = any variety of that crop

General Roadsides and Turf Seed Mixture Component Requirements (25-000 series mixes)

Requirements are in effect until revised by Mn/DOT. Always consult website to determine current requirements. **Most recent substitutions are highlighted in orange.**

Specifications				Authorized Substitution				
Common Name	Scientific Name	Acceptable Varieties/Origin	Certification Required	Common Name	Scientific Name	Acceptable Varieties/Origin (refer to footnotes at bottom of page)	Certification Required	Authorization Date
Alfalfa, creeping	<i>Medicago sativa</i>	Rambler, Rangelander, Spredor 2, Spyder, Teton, Travois, Victoria	Yes	Alfalfa, creeping	<i>Medicago sativa</i>	Rambler, Rangelander, Spredor 2, Spyder, Teton, Travois, Victoria	No*	3/1/2018
Bluegrass, Canada	<i>Poa compressa</i>	Common, Reubens, Talon	Yes	Bluegrass, Canada	<i>Poa compressa</i>	Common, Reubens, Talon	No*	3/1/2018
				Sheeps Fescue complex	<i>Festuca spp.</i>	Azure, Big Horn, Black Sheep, Bluegray, MX 86, Quatro, SR3000	No*	3/1/2018
Bluegrass, Fowl	<i>Poa palustris</i>	MN	Yellow tag	Bluegrass, Fowl	<i>Poa palustris</i>	1-5 or Canada	No*	3/1/2018
				50% Fowl Bluegrass 25% Virginia Wildrye 25% Switchgrass	50% <i>Poa palustris</i> 25% <i>Elymus virginicus</i> 25% <i>Panicum virgatum</i>	1-5 or Canada 1-4 Dakotah or Forestburg	No*	3/1/2018
				50% Fowl Bluegrass 45% Virginia Wildrye 5% Woolgrass	50% <i>Poa palustris</i> 45% <i>Elymus virginicus</i> 5% <i>Scirpus cyperinus</i>	1-5 or Canada 1-4 1-4	No*	3/1/2018
				50% Fowl Bluegrass 40% Virginia Wildrye 10% Prairie Cordgrass	50% <i>Poa palustris</i> 40% <i>Elymus virginicus</i> 10% <i>Spartina pectinata</i>	1-5 or Canada 1-4 1-4	No*	3/1/2018
Bluegrass, Kentucky	<i>Poa pratensis</i>	Park	Blue tag					
Bluegrass, Kentucky - Elite	<i>Poa pratensis</i>	Adelphi, Alexa II, Arrowhead, Aspen, Award, Black Jack, Blue Note, Cadet, Columbia, Corsair, Diva, Dynamo, Elipse, Estate, Fargo, Fielder, Fyking, Ginney, Glade, Guinness, Jefferson, Merit, Midnight, Midnight II, Mongoose, Monopoly, Mystere, NuGlade, Parade, Princeton P-105, Prosperity, Rambo, Rhapsody, Rhythm, Touchdown, Victa, Volt	Yes	Bluegrass, Kentucky - Elite	<i>Poa pratensis</i>	Adelphi, Alexa II, Arrowhead, Aspen, Award, Black Jack, Blue Note, Cadet, Columbia, Corsair, Diva, Dynamo, Elipse, Estate, Fargo, Fielder, Fyking, Ginney, Glade, Guinness, Jefferson, Merit, Midnight, Midnight II, Mongoose, Monopoly, Mystere, NuGlade, Parade, Princeton P-105, Prosperity, Rambo, Rhapsody, Rhythm, Touchdown, Victa, Volt	No*	3/1/2018
Bluegrass, Kentucky - Improved	<i>Poa pratensis</i>	Apollo, Appalachian, Arc, Atlantis, Baron, Bedazzled, Blue Angel, Chateau, Dragon, Geronimo, Jackpot, Limosine, Moonlight SLT, Odyssey, Rockstar, Rugby II, Shamrock, Shiraz, Slingshot, Washington, Wildwood	Yes	Bluegrass, Kentucky - Improved	<i>Poa pratensis</i>	Apollo, Appalachian, Arc, Atlantis, Baron, Bedazzled, Blue Angel, Chateau, Dragon, Geronimo, Jackpot, Limosine, Moonlight SLT, Odyssey, Rockstar, Rugby II, Shamrock, Shiraz, Slingshot, Washington, Wildwood	No*	3/1/2018
Bluegrass, Kentucky - Low Maintenance	<i>Poa pratensis</i>	Action, America, Aquila, Argyle, Blue Angel, Caliber, Camas, Certified Park, Challenger, Impact, Kenblue, Nassau, Newport, Ram 1, Nugget, Sydsport, South Dakota	Yes	Bluegrass, Kentucky - Low Maintenance	<i>Poa pratensis</i>	Action, America, Aquila, Argyle, Blue Angel, Caliber, Camas, Certified Park, Challenger, Impact, Kenblue, Nassau, Newport, Ram 1, Nugget, Sydsport, South Dakota	No*	3/1/2018
Bluestem, little	<i>Schizachyrium scoparium</i>	Itasca germplasm	Yes	Bluestem, little	<i>Schizachyrium scoparium</i>	1-5	No*	3/1/2018

Brome, smooth	<i>Bromus inermis</i>	Carlton, Lincoln, Manchar, Sac, Signal	Yes	Brome, smooth	<i>Bromus inermis</i>	Carlton, Lincoln, Manchar, Sac, Signal	No*	3/1/2018
				Brome, meadow	<i>Bromus biebersteinii</i>	***	No*	3/1/2018
Clover, red	<i>Trifolium pratense</i>	Arlington, Dynamite, Lakeland, Marathon, Red Gold	Yes	Clover, red	<i>Trifolium pratense</i>	Arlington, Dynamite, Lakeland, Marathon, Red Gold	No*	3/1/2018
Clover, white	<i>Trifolium repens</i>	***	Yes	Clover, white	<i>Trifolium repens</i>	***	No*	3/1/2018
Dropseed, sand	<i>Sporobolus cryptandrus</i>	MN	Yellow tag	Dropseed, sand	<i>Sporobolus cryptandrus</i>	1-5	No*	3/1/2018
Fescue, Chewings	<i>Festuca rubra subsp. commutata</i>	Fairmont, Longfellow 3, Radar, SR5130	Yes	Fescue, Chewings	<i>Festuca rubra subsp. commutata</i>	Fairmont, Longfellow 3, Radar, SR5130	No*	3/1/2018
Fescue, hard	<i>Festuca trachyphylla</i>	Aurora, Beacon, Chariot, Durar, Eureka II, Reliant II, Reliant III, Reliant IV, Scaldis, SR3150, Stonehenge, Warwick	Yes	Fescue, hard	<i>Festuca trachyphylla</i>	Aurora, Beacon, Chariot, Durar, Eureka II, Reliant II, Reliant III, Reliant IV, Scaldis, SR3150, Stonehenge, Warwick	No*	3/1/2018
Fescue, red creeping	<i>Festuca rubra</i>	Boreal, Cardinal, Cindy, Cindy Lou, Dawson, Epic, Gotham, Longfellow II, Marker, Maxima 1, Navigator, Penlawn, Rosita, Seabreeze, Wendy Jean, Wintergreen	Yes	Fescue, red creeping	<i>Festuca rubra</i>	Boreal, Cardinal, Cindy, Cindy Lou, Dawson, Epic, Gotham, Longfellow II, Marker, Maxima 1, Navigator, Penlawn, Rosita, Seabreeze, Wendy Jean, Wintergreen	No*	3/1/2018
Fescue, sheeps	<i>Festuca ovina</i>	***	Yes	Fescue, sheeps	<i>Festuca ovina</i>	***	No*	3/1/2018
Prairie clover, purple	<i>Dalea purpurea</i>	MN	Yellow tag	Prairie clover, purple	<i>Dalea purpurea</i>	1-5	No*	3/1/2018
Ryegrass, perennial	<i>Lolium perenne</i>	***	Yes	Ryegrass, perennial	<i>Lolium perenne</i>	***	No*	3/1/2018
Switchgrass	<i>Panicum virgatum</i>	MN	Yes	Switchgrass	<i>Panicum virgatum</i>	Dakotah, Forestburg	No*	3/1/2018
Timothy	<i>Phleum pratense</i>	***	Yes	Timothy	<i>Phleum pratense</i>	***	No*	3/1/2018
Wheatgrass, slender	<i>Elymus trachycaulus</i>	Pryor, Revenue	Yes	Wheatgrass, slender	<i>Elymus trachycaulus</i>	Pryor, Revenue	No*	3/1/2018

*Certification may be required through special provision

***any variety of that crop

¹ MCIA certified Source Identified class; origin MN or adjoining portion of adjacent states as described in Mn/DOT Specification 3876.

² Source Identified class certified by a seed certifying agency other than MCIA; origin MN or adjoining portion of adjacent states as described in Mn/DOT Specification 3876.

³ Certified seed of varieties/germplasm listed in Table 3876-1 (Certified, Selected or Tested class as applicable).

⁴ Wild type from MN or adjoining portion of adjacent states as described in Mn/DOT Specification 3876.

⁵ Wild type from adjacent states (ND, SD, IA, WI)

Native Seed Mixture Component Requirements (30-000 series mixes)

Requirements are in effect until revised by Mn/DOT. Always consult website to determine current requirements. **Most recent substitutions are highlighted in orange.**

Specifications				Authorized Substitution				
Common Name	Scientific Name	Acceptable varieties/origin (refer to footnotes on last page)	Certification Required	Common name	Scientific name	Acceptable varieties/origin (refer to footnotes on last page)	Certification Required*	Authorization Date
COVER CROP								
Oats	<i>Avena sativa</i>	***	Blue tag**					
Winter Wheat	<i>Triticum aestivum</i>	***	Blue tag**					
NATIVE								
Yarrow	<i>Achillea millefolium</i>	1	Yellow tag					
Sweet Flag	<i>Acorus americanus</i>	1	Yellow tag	Sweet Flag	<i>Acorus americanus</i>	1-5	no	3/1/2018
				Giant Bur Reed	<i>Sparganium eurycarpum</i>	1	yes	3/1/2018
Giant Fragrant Hyssop	<i>Agastache foeniculum</i>	1	Yellow tag					
White Snakeroot	<i>Ageratina altissima</i>	1	Yellow tag	White Snakeroot	<i>Ageratina altissima</i>	1-4	no	3/1/2018
American Water Plantain	<i>Alisma subcordatum</i>	1	Yellow tag	American Water Plantain	<i>Alisma subcordatum</i>	1-4		
Northern Water Plantain	<i>Alisma triviale</i>	1	Yellow tag					
Meadow Garlic	<i>Allium canadense</i>	1	Yellow tag	Meadow Garlic	<i>Allium canadense</i>	1-2	yes	3/1/2018
Prairie Onion	<i>Allium stellatum</i>	1	Yellow tag	Prairie Onion	<i>Allium stellatum</i>	1-2	yes	3/1/2018
Leadplant	<i>Amorpha canescens</i>	1	Yellow tag					
Big Bluestem	<i>Andropogon gerardi</i>	1	Yellow tag					
Pearly Everlasting	<i>Anaphalis margaritacea</i>	1	Yellow tag	Pearly Everlasting	<i>Anaphalis margaritacea</i>	1-4	no	3/1/2018
				Fireweed	<i>Chamerion angustifolium</i>	1	yes	3/1/2018
Canada Anemone	<i>Anemone canadensis</i>	1	Yellow tag					
Virginia Anemone	<i>Anemone virginiana</i>	1	Yellow tag	Virginia Anemone	<i>Anemone virginiana</i>	1-4	no	3/1/2018
Columbine	<i>Aquilegia canadensis</i>	1	Yellow tag					
Prairie Sage	<i>Artemisia ludoviciana</i>	1	Yellow tag	Prairie Sage	<i>Artemisia ludoviciana</i>	1-4	no	3/1/2018
				Prairie Onion	<i>Allium stellatum</i>	1-2	yes	3/1/2018
Marsh Milkweed	<i>Asclepias incarnata</i>	1	Yellow tag					
Common Milkweed	<i>Asclepias syriaca</i>	1	Yellow tag	Common Milkweed	<i>Asclepias syriaca</i>	1-4	no	3/1/2018
Butterfly Milkweed	<i>Asclepias tuberosa</i>	1	Yellow tag					
Whorled Milkweed	<i>Asclepias verticillata</i>	1	Yellow tag	Whorled Milkweed	<i>Asclepias verticillata</i>	1-4	no	3/1/2018
Canada Milk Vetch	<i>Astragalus canadensis</i>	1	Yellow tag					
American Sloughgrass	<i>Beckmannia syzigachne</i>	1	Yellow tag	American Sloughgrass	<i>Beckmannia syzigachne</i>	1-4	no	3/1/2018
Nodding Bur Marigold	<i>Bidens cernua</i>	1	Yellow tag	Nodding Bur Marigold	<i>Bidens cernua</i>	1-4	no	3/1/2018
				Bottlebrush Sedge	<i>Carex comosa</i>	1	yes	3/1/2018
Leafy Beggarticks	<i>Bidens frondosa</i>	1	Yellow tag	Leafy Beggarticks	<i>Bidens frondosa</i>	1-4	no	3/1/2018
				Tall Swamp Marigold	<i>Bidens coronata</i>	1-5	no	3/1/2018
River Bulrush	<i>Bolboschoenus fluviatilis</i>	1	Yellow tag	River Bulrush	<i>Bolboschoenus fluviatilis</i>	1-4	no	3/1/2018
Sideoats Grama	<i>Bouteloua curtipendula</i>	1	Yellow tag					
Blue Grama	<i>Bouteloua gracilis</i>	1	Yellow tag					
Fringed Brome	<i>Bromus ciliatus</i>	1	Yellow tag	Fringed Brome	<i>Bromus ciliatus</i>	1-4	no	3/1/2018
Kalm's Brome	<i>Bromus kalmii</i>	1	Yellow tag	Kalm's Brome	<i>Bromus kalmii</i>	1-4	no	3/1/2018
Bluejoint Grass	<i>Calamagrostis canadensis</i>	1	Yellow tag	Bluejoint Grass	<i>Calamagrostis canadensis</i>	1-5	no	3/1/2018
Bottlebrush Sedge	<i>Carex comosa</i>	1	Yellow tag					
Porcupine Sedge	<i>Carex hystericina</i>	1	Yellow tag	Porcupine Sedge	<i>Carex hystericina</i>	1-4	no	3/1/2018
Lake Sedge	<i>Carex lacustris</i>	1	Yellow tag	Lake Sedge	<i>Carex lacustris</i>	1-4	no	3/1/2018
				Giant Bur Reed	<i>Sparganium eurycarpum</i>	1	yes	3/1/2018

Native Seed Mixture Component Requirements (30-000 series mixes)

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Common Name	Scientific Name	Acceptable varieties/origin (refer to footnotes on last page)	Certification Required	Common name	Scientific name	Acceptable varieties/origin (refer to footnotes on last page)	Certification Required*	Authorization Date
Broad-leaved Woolly Sedge	<i>Carex pellita</i>	1	Yellow tag					
Pointed-broom Sedge	<i>Carex scoparia</i>	1	Yellow tag					
Common Fox Sedge	<i>Carex stipata</i>	1	Yellow tag	Broad-leaved Woolly Sedge	<i>Carex pellita</i>	1	yes	3/1/2018
Tussock Sedge	<i>Carex stricta</i>	1	Yellow tag	Tussock Sedge	<i>Carex stricta</i>	1-4	no	3/1/2018
				Bottlebrush Sedge	<i>Carex comosa</i>	1	yes	3/1/2018
Brown Fox Sedge	<i>Carex vulpinoidea</i>	1	Yellow tag	Brown Fox Sedge	<i>Carex vulpinoidea</i>	1-4	no	3/1/2018
Partridge Pea	<i>Chamaecrista fasciculata</i>	1	Yellow tag					
Stiff Tic-seed; Prairie Coreopsis	<i>Coreopsis palmata</i>	1	Yellow tag	Prairie Coreopsis	<i>Coreopsis palmata</i>	1-4	no	3/1/2018
				Wood Betony	<i>Pedicularis canadensis</i>	1-4	no	3/1/2018
White Prairie Clover	<i>Dalea candida</i>	1	Yellow tag	Purple Prairie Clover	<i>Dalea purpurea</i>	1	yes	3/1/2018
Purple Prairie Clover	<i>Dalea purpurea</i>	1	Yellow tag					
Poverty Oats	<i>Danthonia spicata</i>	1	Yellow tag	Poverty Oats	<i>Danthonia spicata</i>	1-4	no	3/1/2018
				Bottlebrush Grass	<i>Elymus hystrix</i>	1	yes	3/1/2018
Showy Tick Trefoil	<i>Desmodium canadense</i>	1	Yellow tag					
Flat-topped Aster	<i>Doellingeria umbellata</i>	1	Yellow tag					
Prairie Cinquefoil	<i>Drymocallis arguta</i>	1	Yellow tag					
Narrow-leaved Coneflower	<i>Echinacea angustifolia</i>	1	Yellow tag					
Creeping Spikerush	<i>Eleocharis acicularis</i>	1	Yellow tag	Creeping Spikerush	<i>Eleocharis acicularis</i>	1-4	no	3/1/2018
				Bald Spikerush	<i>Eleocharis erythropoda</i>	1-4	no	3/1/2018
Great Spikerush	<i>Eleocharis palustris</i>	1	Yellow tag	Blunt Spikerush	<i>Eleocharis obtusa</i>	1-5	no	3/1/2018
				Great Spikerush	<i>Eleocharis palustris</i>	1-4	no	3/1/2018
Canada Wildrye	<i>Elymus canadensis</i>	1	Yellow tag					
Bottlebrush Grass	<i>Elymus hystrix</i>	1	Yellow tag					
Riverbank Wildrye	<i>Elymus riparius</i>	1	Yellow tag	Riverbank Wildrye	<i>Elymus riparius</i>	1-4	no	3/1/2018
Slender Wheatgrass	<i>Elymus trachycaulus</i>	1	Yellow tag	Slender Wheatgrass	<i>Elymus trachycaulus</i>	1-3, Revenue	yes	3/1/2018
				Silky Wildrye	<i>Elymus villosus</i>	1-4	no	3/1/2018
Virginia Wildrye	<i>Elymus virginicus</i>	1	Yellow tag					
Boneset	<i>Eupatorium perfoliatum</i>	1	Yellow tag					
Large-leaved Aster	<i>Eurybia macrophylla</i>	1	Yellow tag	Large-leaved Aster	<i>Eurybia macrophylla</i>	1-4	no	3/1/2018
Grass-leaved Goldenrod	<i>Euthamia graminifolia</i>	1	Yellow tag	Grass-leaved Goldenrod	<i>Euthamia graminifolia</i>	1-4	no	3/1/2018
				Stiff Goldenrod	<i>Solidago rigida</i>	1	yes	3/1/2018
Spotted Joe-pye Weed	<i>Eutrochium maculatum</i>	1	Yellow tag					
Reed Manna Grass	<i>Glyceria grandis</i>	1	Yellow tag					
Fowl Manna Grass	<i>Glyceria striata</i>	1	Yellow tag	Fowl Manna Grass	<i>Glyceria striata</i>	1-4	no	3/1/2018
				Sprengel's Sedge	<i>Carex sprengelii</i>	1	yes	3/1/2018
Sneezeweed	<i>Helenium autumnale</i>	1	Yellow tag	Sneezeweed	<i>Helenium autumnale</i>	1-2	yes	3/1/2018

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Common Name	Scientific Name	Acceptable varieties/origin (refer to footnotes on last page)	Certification Required	Common name	Scientific name	Acceptable varieties/origin (refer to footnotes on last page)	Certification Required*	Authorization Date
Giant Sunflower	<i>Helianthus giganteus</i>	1	Yellow tag	Giant Sunflower	<i>Helianthus giganteus</i>	1-4	no	3/1/2018
				Maximillian Sunflower	<i>Helianthus maximiliani</i>	1-4	no	3/1/2018
Sawtooth Sunflower	<i>Helianthus grosseserratus</i>	1	Yellow tag	Sawtooth Sunflower	<i>Helianthus grosseserratus</i>	1-4	no	3/1/2018
Stiff Sunflower	<i>Helianthus pauciflorus</i>	1	Yellow tag	Stiff Sunflower	<i>Helianthus pauciflorus</i>	1-2	yes	3/1/2018
Early Sunflower	<i>Heliopsis helianthoides</i>	1	Yellow tag					
Porcupine Grass	<i>Hesperostipa spartea</i>	1	Yellow tag	Porcupine Grass	<i>Hesperostipa spartea</i>	1-4	no	3/1/2018
Great St John's Wort	<i>Hypericum ascyron ssp. pyramidatum</i>	1	Yellow tag	Great St John's Wort	<i>Hypericum ascyron ssp. pyramidatum</i>	1-4	no	3/1/2018
Spotted Jewelweed	<i>Impatiens capensis</i>	1	Yellow tag	Spotted Jewelweed	<i>Impatiens capensis</i>	1-4	no	3/1/2018
				Monkey Flower	<i>Mimulus ringens</i>	1-2	yes	3/1/2018
Northern Blue Flag Iris	<i>Iris versicolor</i>	1	Yellow tag	Northern Blue Flag Iris	<i>Iris versicolor</i>	1-4	no	3/1/2018
Path Rush	<i>Juncus tenuis</i>	1	Yellow tag	Path Rush	<i>Juncus tenuis</i>	1-4	no	3/1/2018
				Dudley's Rush	<i>Juncus dudleyi</i>	1-5	no	3/1/2018
Torrey's Rush	<i>Juncus torreyi</i>	1	Yellow tag	Torrey's Rush	<i>Juncus torreyi</i>	1-4	no	3/1/2018
June Grass	<i>Koeleria macrantha</i>	1	Yellow tag					
Rice Cut-grass	<i>Leersia oryzoides</i>	1	Yellow tag					
Round-headed Bushclover	<i>Lespedeza capitata</i>	1	Yellow tag					
Rough Blazingstar	<i>Liatrix aspera</i>	1	Yellow tag	Early Sunflower	<i>Heliopsis helianthoides</i>	1	yes	3/1/2018
Dotted Blazingstar	<i>Liatrix punctata</i>	1	Yellow tag	Dotted Blazingstar	<i>Liatrix punctata</i>	1-4	no	3/1/2018
Tall Blazingstar	<i>Liatrix pycnostachya</i>	1	Yellow tag					
Great Blue Lobelia	<i>Lobelia siphilitica</i>	1	Yellow tag	Great Blue Lobelia	<i>Lobelia siphilitica</i>	1-4	no	3/1/2018
Water Horehound	<i>Lycopus americanus</i>	1	Yellow tag	Monkey Flower	<i>Mimulus ringens</i>	1-2	yes	3/1/2018
				Water Horehound	<i>Lycopus americanus</i>	1-4	no	3/1/2018
Monkey Flower	<i>Mimulus ringens</i>	1	Yellow tag	Monkey Flower	<i>Mimulus ringens</i>	1-2	yes	3/1/2018
Wild Bergamot	<i>Monarda fistulosa</i>	1	Yellow tag	Wild Bergamot	<i>Monarda fistulosa</i>	1-4	no	3/1/2018
Spotted Bee Balm	<i>Monarda punctata</i>	1	Yellow tag	Spotted Bee Balm	<i>Monarda punctata</i>	1-4	no	3/1/2018
				Cream Gentian	<i>Gentiana flavida</i>	1-4	no	3/1/2018
Green Needlegrass	<i>Nassella viridula</i>	1	Yellow tag	Green Needlegrass	<i>Nassella viridula</i>	1-5, Lodorm	no	3/1/2018
Sweet Cicely	<i>Ozmorhiza claytonii</i>	1	Yellow tag	Sweet Cicely	<i>Ozmorhiza claytonii</i>	1-4	no	3/1/2018
				Early Meadow Rue	<i>Thalictrum dioicum</i>	1-4	no	3/1/2018
Switch Grass	<i>Panicum virgatum</i>	1	Yellow tag					
Western Wheatgrass	<i>Pascopyrum smithii</i>	1	Yellow tag	Western Wheatgrass	<i>Pascopyrum smithii</i>	1-5, Rosana	no	3/1/2018
Showy Penstemon	<i>Penstemon grandiflorus</i>	1	Yellow tag	Showy Penstemon	<i>Penstemon grandiflorus</i>	1-5	no	3/1/2018
				Wood Betony	<i>Pedicularis canadensis</i>	1-4	no	3/1/2018
Obedient Plant	<i>Physostegia virginiana</i>	1	Yellow tag					
Fowl Bluegrass	<i>Poa palustris</i>	1	Yellow tag	Fowl Bluegrass	<i>Poa palustris</i>	1-5, Canada	no	3/1/2018
Common Mountainmint	<i>Pycnanthemum virginianum</i>	1	Yellow tag					
Columnar Coneflower	<i>Ratibida columnifera</i>	1	Yellow tag					

Native Seed Mixture Component Requirements (30-000 series mixes)

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Specifications				Authorized Substitution				
Common Name	Scientific Name	Acceptable varieties/origin (refer to footnotes on last page)	Certification Required	Common name	Scientific name	Acceptable varieties/origin (refer to footnotes on last page)	Certification Required*	Authorization Date
Yellow Coneflower; Gray-headed coneflower	<i>Ratibida pinnata</i>	1	Yellow tag	Gray-headed Coneflower	<i>Ratibida pinnata</i>	1-2	yes	3/1/2018

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Common Name	Scientific Name	Acceptable varieties/origin (refer to footnotes on last page)	Certification Required	Common name	Scientific name	Acceptable varieties/origin (refer to footnotes on last page)	Certification Required*	Authorization Date
Prairie Rose	<i>Rosa arkansana</i>	1	Yellow tag	Prairie Rose	<i>Rosa arkansana</i>	1-4	no	3/1/2018
Smooth Wild Rose	<i>Rosa blanda</i>	1	Yellow tag	New Jersey Tea	<i>Ceanothus americanus</i>	1-4	no	3/1/2018
Black-eyed Susan	<i>Rudbeckia hirta</i>	1	Yellow tag	Smooth Wild Rose	<i>Rosa blanda</i>	1-4	no	3/1/2018
Wild Golden-glow	<i>Rudbeckia laciniata</i>	1	Yellow tag	Wild Golden-glow	<i>Rudbeckia laciniata</i>	1-5	no	3/1/2018
Broad-leaved Arrowhead	<i>Sagittaria latifolia</i>	1	Yellow tag	Sawtooth Sunflower	<i>Helianthus grosseserratus</i>	1-4	no	3/1/2018
False Melic Grass	<i>Schizachne purpurascens</i>	1	Yellow tag	False Melic Grass	<i>Schizachne purpurascens</i>	1-4	no	3/1/2018
Little Bluestem	<i>Schizachyrium scoparium</i>	1	Yellow tag	Bottlebrush Grass	<i>Elymus hystrix</i>	1	yes	3/1/2018
Three-square Bulrush	<i>Schoenoplectus pungens</i>	1	Yellow tag	Three-square Bulrush	<i>Schoenoplectus pungens</i>	1-4	no	3/1/2018
Softstem Bulrush	<i>Schoenoplectus tabernaemontani</i>	1	Yellow tag					
Green Bulrush	<i>Scirpus atrovirens</i>	1	Yellow tag	Green Bulrush	<i>Scirpus atrovirens</i>	1-4	no	3/1/2018
Woolgrass	<i>Scirpus cyperinus</i>	1	Yellow tag					
Figwort	<i>Scrophularia lanceolata</i>	1	Yellow tag	Figwort	<i>Scrophularia lanceolata</i>	1-4	no	3/1/2018
Zigzag Goldenrod	<i>Solidago flexicaulis</i>	1	Yellow tag	Purple Meadow Rue	<i>Thalictrum dasycarpum</i>	1-4	no	3/1/2018
Giant Goldenrod	<i>Solidago gigantea</i>	1	Yellow tag	Zigzag Goldenrod	<i>Solidago flexicaulis</i>	1-4	no	3/1/2018
Gray Goldenrod	<i>Solidago nemoralis</i>	1	Yellow tag	Giant Goldenrod	<i>Solidago gigantea</i>	1-4	no	3/1/2018
Upland Goldenrod	<i>Solidago ptarmicoides</i>	1	Yellow tag	Maximillian Sunflower	<i>Helianthus maximillani</i>	1-4	no	3/1/2018
Stiff Goldenrod	<i>Solidago rigida</i>	1	Yellow tag	Gray Goldenrod	<i>Solidago nemoralis</i>	1-4	no	3/1/2018
Showy Goldenrod	<i>Solidago speciosa</i>	1	Yellow tag	Stiff Goldenrod	<i>Solidago rigida</i>	1	yes	3/1/2018
Indiangrass	<i>Sorghastrum nutans</i>	1	Yellow tag	Upland Goldenrod	<i>Solidago ptarmicoides</i>	1-5	no	3/1/2018
Giant Bur Reed	<i>Sparganium eurycarpum</i>	1	Yellow tag	Showy Goldenrod	<i>Solidago speciosa</i>	1-4	no	3/1/2018
Prairie Cordgrass	<i>Spartina pectinata</i>	1	Yellow tag					
Sand Dropseed	<i>Sporobolus cryptandrus</i>	1	Yellow tag	Sand Dropseed	<i>Sporobolus cryptandrus</i>	1-5	no	3/1/2018
Prairie Dropseed	<i>Sporobolus heterolepis</i>	1	Yellow tag					
Lindley's Aster	<i>Symphyotrichum ciliolatum</i>	1	Yellow tag	Sweet Joe-pye Weed	<i>Eutrochium purpureum</i>	1-2	yes	3/1/2018
Heath Aster	<i>Symphyotrichum ericoides</i>	1	Yellow tag	Heath Aster	<i>Symphyotrichum ericoides</i>	1-4	no	3/1/2018
				Common Milkweed	<i>Asclepias syriaca</i>	1-4	no	3/1/2018

Native Seed Mixture Component Requirements (30-000 series mixes)

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Specifications				Authorized Substitution				
Common Name	Scientific Name	Acceptable varieties/origin (refer to footnotes on last page)	Certification Required	Common name	Scientific name	Acceptable varieties/origin (refer to footnotes on last page)	Certification Required*	Authorization Date
Smooth-blue Aster	<i>Symphyotrichum laeve</i>	1	Yellow tag					
				Smooth-blue Aster	<i>Symphyotrichum laeve</i>	1-4	no	3/1/2018
Eastern Panicked Aster	<i>Symphyotrichum lanceolatum</i>	1	Yellow tag					
				Eastern Panicked Aster	<i>Symphyotrichum lanceolatum</i>	1-5	no	3/1/2018
New England Aster	<i>Symphyotrichum novae-angliae</i>	1	Yellow tag					
Sky Blue Aster	<i>Symphyotrichum oolentangiense</i>	1	Yellow tag					
				Sky Blue Aster	<i>Symphyotrichum oolentangiense</i>	1-4	no	3/1/2018
Swamp Aster	<i>Symphyotrichum puniceum</i>	1	Yellow tag					
				Butterfly Milkweed	<i>Asclepias tuberosa</i>	1	yes	3/1/2018
Silky Aster	<i>Symphyotrichum sericeum</i>	1	Yellow tag					
				New England Aster	<i>Symphyotrichum novae-angliae</i>	1	yes	3/1/2018
Purple Meadow Rue	<i>Thalictrum dasycarpum</i>	1	Yellow tag					
				Stiff Gentian	<i>Gentianella quinquefolia</i>	1-4	no	3/1/2018
Prairie Spiderwort	<i>Tradescantia bracteata</i>	1	Yellow tag					
				Silky Aster	<i>Symphyotrichum sericeum</i>	1-4	no	3/1/2018
Blue Vervain	<i>Verbena hastata</i>	1	Yellow tag					
				Purple Meadow Rue	<i>Thalictrum dasycarpum</i>	1-4	no	3/1/2018
Hoary Vervain	<i>Verbena stricta</i>	1	Yellow tag					
				Prairie Spiderwort	<i>Tradescantia bracteata</i>	1-4	no	3/1/2018
Ironweed	<i>Vernonia fasciculata</i>	1	Yellow tag					
				Ohio Spiderwort	<i>Tradescantia ohioensis</i>	1-4	no	3/1/2018
Culver's Root	<i>Veronicastrum virginicum</i>	1	Yellow tag					
				Blue Vervain	<i>Verbena hastata</i>	1-4	no	3/1/2018
				Hoary Vervain	<i>Verbena stricta</i>	1-4	no	3/1/2018
				Marsh Betony	<i>Pedicularis lanceolata</i>	1-4	no	3/1/2018
American Vetch	<i>Vicia americana</i>	1	Yellow tag					
				Wood Betony	<i>Pedicularis canadensis</i>	1-4	no	3/1/2018
Heart-leaved Alexanders	<i>Zizia aptera</i>	1	Yellow tag					
				Ironweed	<i>Vernonia fasciculata</i>	1-5	no	3/1/2018
Golden Alexanders	<i>Zizia aurea</i>	1	Yellow tag					
				Marsh Betony	<i>Pedicularis lanceolata</i>	1-4	no	3/1/2018
Golden Alexanders	<i>Zizia aurea</i>	1	Yellow tag					
				Culver's Root	<i>Veronicastrum virginicum</i>	1-4	no	3/1/2018
Golden Alexanders	<i>Zizia aurea</i>	1	Yellow tag					
				Blue Vervain	<i>Verbena hastata</i>	1-4	no	3/1/2018
Golden Alexanders	<i>Zizia aurea</i>	1	Yellow tag					
				Blue Vervain	<i>Verbena hastata</i>	1-4	no	3/1/2018
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