



BWSR Seed Substitutions

NOTE: The range of substitutions should be checked as some of them may have more restrictive ranges than the species they are listed to replace.

Scientific Name	Common Name	Substitution Options		
<i>Achillea millefolium</i>	Common Yarrow	<i>Verbena stricta</i> (1-4, 6-9)	<i>Monarda punctata</i> (7-8)	<i>Coreopsis palmata</i> (6-9)
<i>Acorus calamus</i>	Sweet Flag	<i>Sparganium eurycarpum</i>	<i>Carex lacustris</i>	
<i>Agastache foeniculum</i>	Blue Giant Hyssop	<i>Monarda fistulosa</i>	<i>Agastache scrophulariaefolia</i> (6-	<i>Chamerion angustifolium</i> (1-8
<i>Agastache foeniculum purpurea</i>	Purple Giant Hyssop	<i>Agastache foeniculum</i>		
<i>Ageratina altissima</i>	White Snakeroot	<i>Solidago flexicaulis</i> (1, 3-9)	<i>Desmodium glutinosum</i> (5-9)	<i>Galium boreale</i>
<i>Alisma subcordatum</i>	Heart-leaved Water Plantain	<i>Alisma triviale</i>		
<i>Alisma triviale</i>	Common Water Plantain	<i>Alisma subcordatum</i>	<i>Sagittaria latifolia</i>	
<i>Allium canadense</i>	Wild Garlic	<i>Allium stellatum</i>		
<i>Allium stellatum</i>	Prairie Wild Onion	<i>Allium canadense</i> (7, south 1/2 of		
<i>Amorpha canescens</i>	Lead Plant	<i>Pediomelum argophyllum</i> (4, 7-9)	<i>Pediomelum esculentum</i> (4, 7-9)	<i>Astragalus crassicaarpus</i> (3-4. 7
<i>Amorpha fruticosa</i>	False Indigo	<i>Amorpha canescens</i>		
<i>Anaphalis margaritacea</i>	Pearly Everlasting	<i>Symphytotrichum lanceolatum</i>	<i>Solidago gigantea</i>	
<i>Andropogon gerardii</i>	Big Bluestem	<i>Sorghastrum nutans</i>	<i>Bromus ciliatus</i> (1-9)	<i>Panicum virgatum</i> (3,4,7-9)
<i>Anemone canadensis</i>	Canada Anemone	<i>Mentha arvensis</i> (7-9)	<i>Anemone cylindrica</i>	<i>Galium boreale</i>
<i>Anemone cylindrica</i>	Long-headed Thimbleweed	<i>Anemone virginiana</i>	<i>Anemone canadensis</i>	
<i>Anemone virginiana</i>	Tall Thimbleweed	<i>Anemone cylindrica</i>	<i>Anemone canadensis</i>	
<i>Angelica atropurpurea</i>	Wild Celery			
<i>Antennaria neglecta</i>	Field Pussytoes	<i>Antennaria plantaginifolia</i>		
<i>Antennaria plantaginifolia</i>	Plantain-leaved Pussytoes	<i>Antennaria neglecta</i>		

Scientific Name	Common Name	Substitution Options		
Apocynum androsaemifolium	Spreading Dogbane	Apocynum sibiricum		
Apocynum sibiricum	Clasping Dogbane	Apocynum androsaemifolium		
Aquilegia canadensis	Columbine	Geranium maculatum (1,4-9)	Desmodium glutinosum (5-9)	Ageratina altissima (4,6-8)
Artemisia dranunculus	Tarragon			
Artemisia ludoviciana	Prairie Sage	Symphotrichum sericeum (3-9)	Liatris aspera	
Asclepias incarnata	Marsh Milkweed	Eupatorium perfoliatum	Eutrochium maculatum	
Asclepias syriaca	Common Milkweed	Asclepias tuberosa (3-9)	Drymocallis arguta	
Asclepias tuberosa	Butterfly Milkweed	Asclepias verticillata (3,4,7-9)	Coreopsis palmata (9)	
Asclepias verticillata	Whorled Milkweed	Euphorbia corollata (1, 6-9)	Commandra umbellata	
Astragalus canadensis	Canada Milk Vetch	Amorpha canescens (3-9)	Astragalus crassicaarpus (3-4. 7-9)	
Astragalus crassicaarpus	Ground Plum	Astragalus canadensis		
Avena sativa	Oats* (See Cover crop note)			
Baptisia alba	Baptisia bracteata var. glabrescen			
Baptisia bracteata var. glabrescens	Plains Wild Indigo			
Beckmannia syzigachne	American Slough Grass	Leerzia oryzoides	Glyceria grandis	
Bidens cernua	Nodding Bur Marigold	Bidens coronata (6,8)	Bidens frondosa	
Bidens coronata	Showy Beggarticks	Bidens cernua	Bidens frondosa	
Bidens frondosa	Leafy Beggarticks	Bidens cernua	Bidens coronata (6,8)	
Bolboschoenus fluviatilis	River Bulrush	Sparganium eurycarpum	Acorus calamus	
Boltonia asteroides	False Aster			
Bouteloua curtipendula	Side-oats Grama	Koeleria macrantha (3-9)	Bouteloua hirsuta (3-4, 7-9)	
Bouteloua gracilis	Blue Grama	Bouteloua hirsuta (3-4, 6-9)	Koeleria macrantha (3-9)	

Scientific Name	Common Name	Substitution Options	
Brickellia eupatorioides	False Boneset		
Bromus ciliatus	Fringed Brome	Panicum virgatum (3,4,7-9)	Muhlenbergia glomerata
Bromus inermis	Smooth Brome		
Bromus kalmii	Kalm's Brome	Hesperostipa spartea (2-9)	Bromus purgans (4,6-9)
Bromus pubescens	Hairy Wood Chess	Bromus purgans	
Bromus purgans		Bromus pubescens	
Buchloe dactyloides	Buffalo Grass	Bouteloua gracilis (Limited Range)	
Calamagrostis canadensis	Bluejoint	Calamagrostis stricta (2,5,8,9)	Muhlenbergia racemosa
Calamagrostis stricta**	Narrow Reedgrass	Calamagrostis canadensis	
Calamovilfa longifolia**	Prairie Sandreed	Koeleria macrantha	
Caltha palustris	Common Marsh Marigold		
Calylophus serrulatus**	Toothed Evening Primrose	Oenothera biennis	
Campanula americana	Tall Bellflower	Campanula rotundifolia (Limited R	
Campanula rotundifolia	Harebell	Campanula americana	
Carex atherodes	Slough Sedge	Carex lacustris	
Carex bebbii	Bebb's Sedge	Carex cristatella	
Carex bicknellii	Bicknell's Sedge		
Carex brevior	Short Sedge		
Carex comosa	Bristly Sedge	Carex hystericina	Carex crinita
Carex crinita	Fringed Sedge		
Carex cristatella	Crested Oval Sedge		
Carex gracillima	Purple-sheathed Graceful Sedge		

Scientific Name	Common Name	Substitution Options		
Carex gravida	Long-awned Bracted Sedge			
Carex grayi	Gray's Sedge			
Carex hystericina	Porcupine Sedge	Carex stricta	Carex crinita	
Carex interior	Prairie Star Sedge			
Carex lacustris	Lake Sedge	Carex stricta		
Carex pellita	Wooly Sedge	Carex haydenii	Carex stricta	
Carex pennsylvanica	Pennsylvania Sedge	Carex sprengeii		
Carex scoparia	Lance-fruited Oval sedge	Carex bebbii	Carex brevoir	Carex carex pellita
Carex sprengeii	Sprengel's Sedge	Carex pennsylvanica		
Carex stipata	Common Fox Sedge	Carex scoparia (1,2,4-9)	Carex bebbii	Carex vulpinoidea
Carex stricta	Tussock Sedge	Carex emoryi	Carex haydenii	Carex pellita
Carex typhina	Cattail Sedge	Carex atherodes		
Carex vulpinoidea	Brown Fox Sedge	Carex bebbii	Carex scoparia (1,2,4-9)	
Ceanothus americanus	American New Jersey Tea			
Cephalanthus occidentalis	Buttonbush			
Chamaecrista fasciculata	Partridge Pea	Vicia americana		
Chamerion angustifolium	Fireweed			
Chelone glabra	White Turtlehead			
Cicuta maculata	Spotted Water Hemlock			
Comandra umbellata	Bastard Toadflax			
Comptonia peregrina	Sweet Fern			
Coreopsis palmata	Bird's Foot Coreopsis	Asclepias tuberosa (6-9)		

Scientific Name	Common Name	Substitution Options	
<i>Cryptotaenia canadensis</i>	Honewort		
<i>Dalea candida</i>	White Prairie Clover	<i>Dalea purpurea</i>	<i>Glycyrrhiza lepidota</i>
<i>Dalea purpurea</i>	Purple Prairie Clover	<i>Dalea candida</i> (3-9)	<i>Glycyrrhiza lepidota</i>
<i>Danthonia spicata</i>	Poverty Grass	<i>Carex Sprengelii</i>	
<i>Delphinium carolinianum</i> subsp. Vi	Carolina Delphinium		
<i>Desmodium canadense</i>	Canada Tick Trefoil	<i>Dalea purpurea</i>	<i>Chamerion angustifolium</i> (1-8)
<i>Desmodium glutinosum</i>	Pointed-leaved Tick Trefoil		
<i>Dichantheilium leibergii</i>	Leiberg's Panic Grass	<i>Dichantheilium oligosanthes</i>	
<i>Dichantheilium acuminatum</i>	Hairy Panic Grass	<i>Dichantheilium oligosanthes</i>	
<i>Dichantheilium oligosanthes</i> **	Scribner's Panic Grass	<i>Dichantheilium acuminatum</i>	
<i>Dichantheilium wilcoxianum</i>	Wilcox's Panic Grass		
<i>Doellingeria umbellata</i>	Flat-topped Aster	<i>Symphyotrichum lanceolatum</i>	<i>Euthamia graminifolia</i>
<i>Drymocallis arguta</i>	Tall Cinquefoil		
<i>Echinacea angustifolia</i>	Narrow-leaved Purple Coneflower	<i>Heterotheca villosa</i> (3-4, 7-9)	<i>Symphyotrichum oolentangiense</i>
<i>Eleocharis acicularis</i>	Least Spikerush	<i>Eleocharis ovata</i> (1,2,5-8)	<i>Eleocharis palustris</i>
<i>Eleocharis obtusa</i>	Blunt Spikerush		
<i>Eleocharis ovata</i>		<i>Eleocharis palustris</i>	
<i>Eleocharis palustris</i>	Marsh Spikerush	<i>Eleocharis ovata</i> (1,2,5-8)	<i>Eleocharis acicularis</i>
<i>Elymus canadensis</i>	Canada Wild Rye	<i>Elymus riparius</i>	<i>Elymus villosus</i> (1, 3-4, 7-9)
<i>Elymus hystrix</i>	Bottlebrush Grass	<i>Bromus purgans</i> (6-8)	<i>Bromus kalmii</i> (2-8)
<i>Elymus riparius</i>	Riverbank Wild Rye	<i>Elymus villosus</i>	
<i>Elymus trachycaulus</i>	Slender Wheatgrass	<i>Elymus canadensis</i>	<i>Stipa sparea</i> (3-4, 8-9)

Scientific Name	Common Name	Substitution Options		
<i>Elymus villosus</i>	Downy Wild Rye	<i>Elymus riparius</i>		
<i>Elymus virginicus</i>	Virginia Wild Rye	<i>Elymus riparius</i>	<i>Bromus purgans</i> (4, 6-9)	<i>Elymus villosus</i>
<i>Eryngium yuccifolium</i>	Rattlesnake Master			
<i>Eupatorium perfoliatum</i>	Common Boneset	<i>Eutrochium maculatum</i>	<i>Cicuta maculata</i>	<i>Asclepias incarnata</i>
<i>Euphorbia corollata</i>	Flowering Spurge			
<i>Eurybia macrophylla</i>	Large-leaved Aster	<i>Desmodium glutinosum</i> (5-9)	<i>Ageratina altissima</i> (4,6-8)	
<i>Euthamia graminifolia</i>	Grass-leaved Goldenrod	<i>Doellingeria umbellata</i>	<i>Symphotrichum lanceolatum</i>	
<i>Eutrochium maculatum</i>	Spotted Joe Pye Weed	<i>Eupatorium perfoliatum</i>	<i>Mimulus ringens</i>	<i>Asclepias incarnata</i>
<i>Eutrochium purpureum</i>	Sweet Joe Pye Weed	<i>Eutrochium maculatum</i>		
<i>Festuca obtusa</i>				
<i>Festuca ovina</i>	Sheep Fescue			
<i>Festuca rubra</i>	Red Fescue	<i>Festuca subverticillata</i>		
<i>Festuca rubra</i> ssp. <i>commutata</i>	Chewing's Fescue			
<i>Festuca subverticillata</i>	Nodding Fescue	<i>Festuca rubra</i>		
<i>Festuca trachyphylla</i>	Hard Fescue			
<i>Galium boreale</i>	Northern Bedstraw	<i>Smilacina racemosa</i>		
<i>Gentiana alba</i>	Cream Gentian	<i>Gentiana andrewsii</i>		
<i>Gentiana andrewsii</i>	Bottle Gentian	<i>Gentiana flavida</i> (Limited Range)		
<i>Gentiana flavida</i>	Cream Gentian	<i>Gentiana andrewsii</i>		
<i>Gentiana puberulenta</i>			<i>Gentiana andrewsii</i>	
<i>Gentianella quinquefolia</i>	Stiff Gentian	<i>Gentiana andrewsii</i>		
<i>Geranium maculatum</i>	Wild Geranium	<i>Smilacina racemosa</i>		

Scientific Name	Common Name	Substitution Options		
<i>Geum triflorum</i>	Prairie Smoke	<i>Glyceria striata</i>		
<i>Glyceria canadensis</i>	Rattlesnake Grass			
<i>Glyceria grandis</i>	Tall Manna Grass	<i>Glyceria striata</i>		
<i>Glyceria striata</i>	Fowl Manna Grass	<i>Glyceria canadensis</i> (1,2,5,6)	<i>Muhlenbergia glomerata</i>	
<i>Glycyrrhiza lepidota</i>	Wild Licorice			
<i>Helenium autumnale</i>	Autumn Sneezeweed	<i>Mimulus ringens</i>	<i>Chelone glabra</i> (1,3,5-8)	<i>Vernonia fasciculata</i> (4,6-9)
<i>Helianthus giganteus</i>	Giant Sunflower	<i>Helianthus grosseserratus</i> (3,4,7-9)		
<i>Helianthus grosseserratus</i>	Sawtooth Sunflower	<i>Helianthus giganteus</i> (1-8)		
<i>Helianthus maximilianii</i>	Maximilian's Sunflower	<i>Helianthus pauciflorus</i>	<i>Heliopsis helianthoides</i>	
<i>Helianthus occidentalis</i>	Western Sunflower	<i>Helianthus pauciflorus</i>	<i>Heliopsis helianthoides</i>	
<i>Helianthus pauciflorus</i>	Stiff Sunflower	<i>Liatris aspera</i> (3,4,7-9)	<i>Doellingeria umbellata</i>	
<i>Helianthus strumosus</i>	Pale-leaved Sunflower			
<i>Heliopsis helianthoides</i>	Ox-eye	<i>solidago riddellii</i> (4, 7-9)	<i>Helianthus maximillianii</i>	
<i>Hesperostipa spartea</i>	Porcupine Grass	<i>Sporobolus heterolepis</i> (3-4, 7-9)	<i>Dichanthelium oligosanthes</i>	
<i>Heterotheca villosa</i>	Hairy Golden Aster			
<i>Heuchera richardsonii</i>	Alumroot	<i>Geranium maculatum</i>		
<i>Hieracium kalmii</i>	Rough Hawkweed			
<i>Hieracium longipilum</i>	Long-bearded Hawkweed			
<i>Houstonia longifolia</i>	Bluets			
<i>Hydrophyllum virginianum</i>	Virginia Waterleaf	<i>Geranium maculatum</i>		
<i>Hypericum pyramidatum</i>	Great St. John's Wort	<i>Helenium autumnale</i>		
<i>Hypoxis hirsuta</i>	Yellow Stargrass			

Scientific Name	Common Name	Substitution Options		
<i>Impatiens capensis</i>	Spotted Touch-Me-Not	<i>Impatiens pallida</i> (5-8)		
<i>Impatiens pallida</i>	Pale Touch-Me-Not	<i>Impatiens capensis</i>		
<i>Iris versicolor</i>	Northern Blue Flag	<i>Iris virginica</i> var. <i>shrevei</i>		
<i>Iris virginica</i> var. <i>shrevei</i>	Southern Blue Flag	<i>Iris versicolor</i>		
<i>Juncus canadensis</i>	Canada Rush	<i>Juncus dudleyi</i>		
<i>Juncus dudleyi</i>	Dudley's Rush	<i>Juncus canadensis</i>		
<i>Juncus effusus</i>	Soft Rush	<i>Juncus torreyi</i>		
<i>Juncus nodosus</i>	Knotted Rush	<i>Juncus canadensis</i>		
<i>Juncus tenuis</i>	Path Rush	<i>Juncus dudleyi</i>	<i>Juncus effusus</i> (1,2,5-7)	
<i>Juncus torreyi</i>	Torrey's Rush	<i>Juncus effusus</i> (1,2,5-7)	<i>Juncus dudleyi</i>	
<i>Koeleria macrantha</i>	Junegrass	<i>Sporobolus heterolepis</i> (3-4, 7-9)	<i>Hesperostipa spartea</i> (2-9)	
<i>Kuhnia eupatorioides</i> var. <i>corymbu</i>	False Boneset			
<i>Lathyrus palustris</i>	Marsh Vetchling			
<i>Leersia oryzoides</i>	Rice Cut Grass	<i>Leersia virginica</i> (6-9)		
<i>Lespedeza capitata</i>	Round-headed Bush Clover	<i>Astragalus canadensis</i>	<i>Amorpha canescens</i> (3-9)	
<i>Liatris aspera</i>	Rough Blazing Star	<i>Liatris punctata</i> (3,4,7-9)	<i>Heuchera richardsonii</i>	
<i>Liatris cylindracea</i>	Cylindric Blazing Star	<i>Liatris aspera</i>		
<i>Liatris ligulistylis</i>	Northern Plains Blazing Star	<i>Liatris aspera</i>		
<i>Liatris punctata</i>	Dotted Blazing Star	<i>Liatris ligulistylis</i>	<i>Heuchera richardsonii</i>	
<i>Liatris pycnostachya</i>	Great Blazing Star	<i>Lysimachia ciliata</i>	<i>Thalictrum dasycarpum</i>	
<i>Lobelia cardinalis</i>	Cardinal Flower	<i>Lobelia siphilitica</i>		
<i>Lobelia siphilitica</i>	Great Lobelia	<i>Lobelia cardinalis</i>	<i>Gentiana andrewsii</i> (3-9)	<i>Lobelia spicata</i>

Scientific Name	Common Name	Substitution Options		
Lobelia spicata	Rough-spiked Lobelia	Lobelia siphilitica		
Lolium multiflorum	Annual Ryegrass			
Lolium perenne	Perennial Ryegrass			
Lupinus perennis	Wild Lupine	Sisyrinchium campestre	Phlox pilosa	
Luzula acuminata	Pointed Woodrush	Luzula multiflora		
Luzula multiflora	Many-flowered Woodrush	Luzula acuminata		
Lycopus americanus	Water Horehound	Lycopus virginicus	Lysimachia ciliata	Mimulus ringens
Lysimachia ciliata	Fringed Loosestrife	Lysimachia quadriflora		
Lysimachia quadriflora	Prairie Loosestrife	Lysimachia ciliata		
Maianthemum canadense	Canada Mayflower			
Medicago sativa	Alfalfa	Chamaechrista fasciculata (7-9)	Field Peas	Vicia americana
Medicago sativa "annual"	Annual Alfalfa			
Mentha arvensis var. canadensis	Common Mint	Teucrium canadense	Pycnanthemum virginicum	
Mimulus ringens	Blue Monkey Flower	Gentiana andrewsii (3-9)	Lobelia spicata	Lysimachia ciliata
Monarda fistulosa	Wild Bergamot	Teucrium canadense (1,4,6-9)	Pycnanthemum virginicum (4,7-	
Monarda punctata	Horsemint	Lupinus perennis (6-8)		
Muhlenbergia cuspidata	Plains Muhly			
Muhlenbergia glomerata	Clustered Muhly Grass	Muhlenbergia mexicana	Muhlenbergia racemosa	
Muhlenbergia mexicana	Leafy Satin Grass	Muhlenbergia racemosa	Muhlenbergia glomerata	
Muhlenbergia racemosa**	Marsh Muhly Grass	Muhlenbergia mexicana	Muhlenbergia glomerata	
Nassella viridula	Green Needle Grass	Calamovilfa longifolia (3-5, 7-9)	Sporobolus heterolepsis (3-4, 7-9	
Oenothera biennis	Common Evening Primrose	Calylophus serrulatus		

Scientific Name	Common Name	Substitution Options		
Oligoneuron rigidum	Stiff Goldenrod	Heliopsis helianthoides	Solidago ptarmicoides (1,3-9)	
Onosmodium molle	Marbleseed			
Osmorhiza claytonii	Clayton's Sweet Cicely	Phryma leptostachya	Desmodium glutinosum (5-9)	Galium boreale
Packera aurea	Golden Ragwort	Zizia aurea		
Panicum virgatum	Switchgrass	Andropegon gerardi (2-9)	Sorghastrum nutans	
Pascopyrum smithii	Western Wheatgrass	Muhlenbergia cuspidata (3-4, 7-9)	Muhlenbergia glomerata	Nassella viridula (4-9)
Pedicularis lanceolata	Swamp Lousewort	Chelone glabra		
Pediomelum argophyllum	Silverleaf Scurfpea	Pediomelum esculentum		
Pediomelum esculentum	Prairie Turnip	Pediomelum argophyllum		
Penstemon digitalis	Foxglove Beardtongue	Penstemon gracilis		
Penstemon gracilis	Slender Beard Tongue	Penstemon digitalis (Limited Rang		
Penstemon grandiflorus	Large-flowered Beard Tongue	Coreopsis palmata (6-9)	Monarda punctata (7)	
Persicaria lapathifolia	Nodding Smartweed	Persicaria pensylvanica		
Persicaria pensylvanica	Pennsylvania Smartweed	Persicaria lapathifolia		
Phleum pratense	Timothy			
Phlox divaricata	Blue Phlox	Geranium maculatum		
Phlox pilosa	Prairie Phlox	Sisyrinchium campestre	Polemonium reptans	
Phryma leptostachya	Lopseed			
Physocarpus opulifolius	Ninebark			
Physostegia virginiana	Obedient Plant	Chelone glabra (1,3,5-8)	Lysimachia ciliata	
Pisum sativum	Field Pea			
Poa compressa	Canada Bluegrass			

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Poa palustris	Fowl Bluegrass	Leersia oryzoides	
Poa pratensis	Kentucky Bluegrass		
Poa pratensis Elite	Elite Kentucky Bluegrass		
Poa pratensis Improved	Improved Kentucky Bluegrass		
Poa pratensis Low Maintenance	Low Maintenance Kentucky Blu		
Poa pratensis Park	Park Kentucky Bluegrass		
Polemonium reptans	Spreading Jacob's Ladder	Phlox divaricata	Geranium maculatum
Polygonum amphibium**	Water Smartweed		
Potentilla arguta	Prairie Cinquefoil	Potentilla pensylvanica (Limited R	
Potentilla pensylvanica	Pennsylvania Cinquefoil	Potentilla arguta	
Prenanthes racemosa	Smooth Rattlesnakeroot		
Pulsatilla patens	Pasque Flower	Geum triflorum	
Pycnanthemum virginianum	Virginia Mountain Mint	Physostegia virginiana	Galium boreale
Ranunculus fascicularis	Early Buttercup	Zizia Aurea	
Ratibida columnifera	Prairie Coneflower	Ratibida pinnata (7-9)	Echinacea angustifolia (4,9)
Ratibida pinnata	Gray-headed Coneflower	Heliopsis helianthoides	Heuchera richardsonii
Regreen	Regreen		
Rosa acicularis**	Prickly Rose	Rosa arkansana	
Rosa arkansana	Prairie Rose	Rosa acicularis	
Rosa blanda	Smooth Wild Rose	Rosa arkansana	Pedimelum esculentum (4, 7-9)
Rudbeckia hirta	Black-eyed Susan	Verbena stricta (1,4,6-9)	Monarda punctata (7-8)
Rudbeckia laciniata	Tall Coneflower	Ageratina altissima (4,6-8)	Scrophularia lanceolata (1,5-9)

Scientific Name	Common Name	Substitution Options		
Rudbeckia triloba	Brown-eyed Susan	Rudbeckia hirta		
Sagittaria latifolia	Broad-leaved Arrowhead	Iris versicolor	Alisma subcordatum	
Salix discolor	Pussy Willow	Carex bebbii		
Saxifraga pensylvanica	Swamp Saxifrage			
Schizachne purpurascens	False Melic	Calamagrostis canadensis	Elymus hystrix	
Schizachyrium scoparium	Little Bluestem	Koeleria macrantha (3-9)	Sporobolus heterolepis (3-4, 7-9)	
Schoenoplectus acutus	Hardstem Bulrush	Schoenoplectus tabernaemontan		
Schoenoplectus pungens	Three-square Bulrush	Juncus torreyi (1-6, 8,9)	Juncus canadensis (1,2,5,6,8)	Juncus nodosus
Schoenoplectus tabernaemontani	Soft Stem Bulrush	Schoenoplectus acutus	Sparganium eurycarpum	Acorus calamus
Scirpus atrovirens	Dark Green Bulrush	Scirpus cyperinus	Juncus dudleyi	
Scirpus cyperinus	Woolgrass	Calamagrostis canadensis	Muhlenbergia racemosa	
Scrophularia lanceolata	Lance-leaved Figwort	Thalictrum dioicum (1-2, 4-9)	Veronicastrum virginicum (3-9)	
Secale cereale	Cereal Rye			
Silphium laciniatum	Compass Plant	Silphium perfoliatum		
Silphium perfoliatum	Cup Plant	Silphium laciniatum		
Sisyrinchium campestre	Field Blue-eyed Grass	Phlox pilosa	Sisyrinchium montanum	
Sisyrinchium montanum	Mountain Blue-eyed Grass	Sisyrinchium campestre		
Sium suave	Water Parsnip			
Smilacina racemosa	False Solomons Seal	Geranium maculatum		
Solidago canadensis	Canada Goldenrod	Solidago speciosa		
Solidago flexicaulis	Zigzag Goldenrod	Desmodium glutinosum (5-9)	Geranium maculatum (1,4-9)	Solidago ulmifolia
Solidago gigantea	Giant Goldenrod	Helianthus giganteus (1-8)		

Scientific Name	Common Name	Substitution Options		
<i>Solidago missouriensis</i>	Missouri Goldenrod	<i>Solidago speciosa</i>		
<i>Solidago nemoralis</i>	Gray Goldenrod	<i>Symphyotrichum sericeum</i> (3,4,7- <i>Symphyotrichum ericoides</i>		
<i>Solidago ptarmicoides</i>	Upland White Aster	<i>Artemesia ludoviciana</i> (3,4,6-9)	<i>Thalictrum dioicum</i> (1,2,4-9)	
<i>Solidago riddellii</i>	Riddell's Goldenrod	<i>Solidago gigantea</i>		
<i>Solidago rigida</i>	Stiff Goldenrod	<i>Solidago nemoralis</i>		
<i>Solidago speciosa</i>	Showy Goldenrod	<i>Solidago nemoralis</i>	<i>Liatris aspera</i> (3,4,7-9)	
<i>Solidago uliginosa</i>	Bog Goldenrod			
<i>Solidago ulmifolia</i>	Elm-leaved Goldenrod	<i>Solidago flexicaulis</i>		
<i>Sorghastrum nutans</i>	Indian Grass	<i>Andropogon gerardi</i> (2-9)	<i>Bromus ciliatus</i> (1-9)	
<i>Sparganium eurycarpum</i>	Giant Bur Reed	<i>Acorus americanus</i>	<i>Carex lacustris</i>	<i>Bolboschoenus fluviatilis</i>
<i>Spartina pectinata</i>	Prairie Cordgrass	<i>Calamagrostis canadensis</i>	<i>Calamagrostis stricta</i> (2,5,8,9)	
<i>Spiraea alba</i>	White Meadowsweet	<i>Spiraea tomentosa</i> (Limited Range		
<i>Spiraea tomentosa</i>	Steeplebush	<i>Spiraea alba</i>		
<i>Sporobolus compositus</i>	Rough Dropseed	<i>Sporobolus cryptandrus</i>		
<i>Sporobolus cryptandrus</i>	Sand Dropseed	<i>Calamovilfa longifolia</i> (3-5, 7-9)	<i>Hesperostipa spartea</i> (2-9)	
<i>Sporobolus heterolepis</i>	Prairie Dropseed	<i>Hesperostipa spartea</i> (2-4, 6-9)		
<i>Stachys palustris</i>	Marsh Hedge Nettle			
<i>Stipa spartea</i>	Porcupine Grass-untrimmed	<i>Hesperostipa spartea</i>		
<i>Symphoricarpos orbiculatus</i>	Coralberry			
<i>Symphyotrichum ciliolatum</i>	Lindley's Aster	<i>Eurybia macrophylla</i> (1,2, 5,6,8)		
<i>Symphyotrichum cordifolium</i>	Heart-leaved Aster	<i>Symphyotrichum ciliolatum</i>		
<i>Symphyotrichum ericoides</i>	Heath Aster	<i>Symphyotrichum oolentangiense</i> (

Scientific Name	Common Name	Substitution Options	
<i>Symphyotrichum laeve</i>	Smooth Aster	<i>Symphyotrichum oolentangiense</i> (
<i>Symphyotrichum lanceolatum</i>	Eastern Panicked Aster	<i>Symphyotrichum puniceum</i>	
<i>Symphyotrichum lateriflorum</i>	Calico Aster	<i>Symphyotrichum pilosum</i> (Limited <i>Symphyotrichum prenanthoides</i>	
<i>Symphyotrichum novae-angliae</i>	New England Aster	<i>Boltonia asteroides</i> (4,7-9)	
<i>Symphyotrichum oblongifolium</i>	Aromatic Aster	<i>Symphyotrichum laeve</i>	<i>Symphyotrichum oolentangiense</i>
<i>Symphyotrichum oolentangiense</i>	Skyblue Aster	<i>Symphyotrichum oblongifolium</i>	<i>Symphyotrichum laeve</i>
<i>Symphyotrichum prenanthoides</i>	Aster	<i>Symphyotrichum lateriflorum</i>	
<i>Symphyotrichum puniceum</i>	Red-stemmed Aster	<i>Symphyotrichum lanceolatum</i>	
<i>Symphyotrichum sericeum</i>	Silky Aster	<i>Symphyotrichum oolentangiense</i> (
<i>Symphyotrichum urophyllum</i>	Tail-leaved Aster	<i>Symphyotrichum prenanthoides</i>	
<i>Tephrosia virginiana</i>	Goat's Rue		
<i>Teucrium canadense</i>	Germander	<i>Stachys palustris</i>	
<i>Thalictrum dasycarpum</i>	Tall Meadow-Rue	<i>Veronicastrum virginicum</i> (3-9)	
<i>Thalictrum dioicum</i>	Early Meadow-Rue		
<i>Tradescantia bracteata</i>	Bracted Spiderwort	<i>Tradescantia ohiensis</i> (7)	<i>Phlox pilosa</i> (5-9)
<i>Tradescantia occidentalis</i>	Western Spiderwort	<i>Tradescantia bracteata</i>	
<i>Tradescantia ohiensis</i>	Ohio Spiderwort	<i>Tradescantia bracteata</i>	
<i>Trifolium hybridum</i>	Alsike Clover		
<i>Trifolium pratense</i>	Red Clover		
<i>Trifolium repens</i>	White Clover		
<i>Triosteum perfoliatum</i>	Late Horse Gentian		
<i>Triticum aestivum</i>	Winter Wheat		

Scientific Name	Common Name	Substitution Options		
<i>Verbena hastata</i>	Blue Vervain	<i>Helenium autumnale</i> (3,4,7-9)	<i>Lysimachia ciliata</i>	<i>Teucrium canadense</i> (1,4,6-9)
<i>Verbena stricta</i>	Hoary Vervain	<i>Monarda punctata</i> (7)	<i>Drymocallis arguta</i>	
<i>Vernonia fasciculata</i>	Bunched Ironweed	<i>Veronicastrum virginicum</i> (3-9)	<i>Lysimachia ciliata</i>	<i>Teucrium canadense</i> (1,4,6-9)
<i>Veronicastrum virginicum</i>	Culver's Root	<i>Thalictrum dasycarpum</i>	<i>Lysimachia ciliata</i>	<i>Teucrium canadense</i> (1,4,6-9)
<i>Vicia americana</i>	American Vetch	<i>Desmodium canadense</i> (3-9)	<i>Astragalus crassicaarpus</i> (3-4,7-9)	
<i>Vicia villosa</i>	Hairy Vetch	<i>Vicia americana</i>		
<i>Viola pedatifida</i>	Bearded Birdfoot Violet			
<i>Zigadenus elegans</i> var. <i>elegans</i>	White Camas			
<i>Zizania aquatica</i>	Wild Rice	<i>Glyceria grandis</i>		
<i>Zizia aptera</i>	Heart-leaved Alexanders	<i>Verbena stricta</i> (1,4,6-9)	<i>Monarda punctata</i> (7)	
<i>Zizia aurea</i>	Golden Alexanders	<i>Zizia aptera</i>	<i>Teucrium canadense</i> (1,4,6-9)	<i>Ranunculus fasciculatis</i>