

Designer Note: This special provision should be inserted into all contracts with SEEDING or INTERSEEDING.

SEEDING (BDE)

Effective: November 1, 2022

Revise Article 250.07 of the Standard Specifications to read:

"250.07 Seeding Mixtures. The classes of seeding mixtures and combinations of mixtures will be designated in the plans.

When an area is to be seeded with two or more seeding classes, those mixtures shall be applied separately on the designated area within a seven-day period. Seeding shall occur prior to placement of mulch cover. A Class 7 mixture can be applied at any time prior to applying any seeding class or added to them and applied at the same time.

TABLE 1 - SEEDING MIXTURES

Class - Type		Seeds	lb/acre (kg/hectare)
1	Lawn Mixture 1/	Kentucky Bluegrass	100 (110)
		Perennial Ryegrass	60 (70)
		<i>Festuca rubra</i> ssp. <i>rubra</i> (Creeping Red Fescue)	40 (50)
1A	Salt Tolerant Lawn Mixture 1/	Kentucky Bluegrass	60 (70)
		Perennial Ryegrass	20 (20)
		<i>Festuca rubra</i> ssp. <i>rubra</i> (Creeping Red Fescue)	20 (20)
		<i>Festuca brevipilla</i> (Hard Fescue)	20 (20)
		<i>Puccinellia distans</i> (Fulfs Saltgrass or Salty Alkaligrass)	60 (70)
1B	Low Maintenance Lawn Mixture 1/	Turf-Type Fine Fescue 3/	150 (170)
		Perennial Ryegrass	20 (20)
		Red Top	10 (10)
		<i>Festuca rubra</i> ssp. <i>rubra</i> (Creeping Red Fescue)	20 (20)
2	Roadside Mixture 1/	<i>Lolium arundinaceum</i> (Tall Fescue)	100 (110)
		Perennial Ryegrass	50 (55)
		<i>Festuca rubra</i> ssp. <i>rubra</i> (Creeping Red Fescue)	40 (50)
		Red Top	10 (10)
2A	Salt Tolerant Roadside Mixture 1/	<i>Lolium arundinaceum</i> (Tall Fescue)	60 (70)
		Perennial Ryegrass	20 (20)
		<i>Festuca rubra</i> ssp. <i>rubra</i> (Creeping Red Fescue)	30 (20)
		<i>Festuca brevipilla</i> (Hard Fescue)	30 (20)
		<i>Puccinellia distans</i> (Fulfs Saltgrass or Salty Alkaligrass)	60 (70)
3	Northern Illinois Slope Mixture 1/	<i>Elymus canadensis</i> (Canada Wild Rye) 5/	5 (5)
		Perennial Ryegrass	20 (20)
		Alsike Clover 4/	5 (5)
		<i>Desmanthus illinoensis</i> (Illinois Bundleflower) 4/ 5/	2 (2)
		<i>Schizachyrium scoparium</i> (Little Bluestem) 5/	12 (12)
		<i>Bouteloua curtipendula</i> (Side-Oats Grama) 5/	10 (10)
		<i>Puccinellia distans</i> (Fulfs Saltgrass or Salty Alkaligrass)	30 (35)
		Oats, Spring	50 (55)
		Slender Wheat Grass 5/	15 (15)
		Buffalo Grass 5/ 7/	5 (5)
		3A	Southern Illinois Slope Mixture 1/
<i>Elymus canadensis</i> (Canada Wild Rye) 5/	20 (20)		
<i>Panicum virgatum</i> (Switchgrass) 5/	10 (10)		
<i>Schizachyrium scoparium</i> (Little Blue Stem) 5/	12 (12)		
<i>Bouteloua curtipendula</i> (Side-Oats Grama) 5/	10 (10)		
<i>Dalea candida</i> (White Prairie Clover) 4/ 5/	5 (5)		
<i>Rudbeckia hirta</i> (Black-Eyed Susan) 5/	5 (5)		
Oats, Spring	50 (55)		

Class – Type		Seeds	lb/acre (kg/hectare)
4	Native Grass 2/ 6/	<i>Andropogon gerardi</i> (Big Blue Stem) 5/	4 (4)
		<i>Schizachyrium scoparium</i> (Little Blue Stem) 5/	5 (5)
		<i>Bouteloua curtipendula</i> (Side-Oats Grama) 5/	5 (5)
		<i>Elymus canadensis</i> (Canada Wild Rye) 5/	1 (1)
		<i>Panicum virgatum</i> (Switch Grass) 5/	1 (1)
		<i>Sorghastrum nutans</i> (Indian Grass) 5/	2 (2)
		Annual Ryegrass	25 (25)
		Oats, Spring	25 (25)
		Perennial Ryegrass	15 (15)
4A	Low Profile Native Grass 2/ 6/	<i>Schizachyrium scoparium</i> (Little Blue Stem) 5/	5 (5)
		<i>Bouteloua curtipendula</i> (Side-Oats Grama) 5/	5 (5)
		<i>Elymus canadensis</i> (Canada Wild Rye) 5/	1 (1)
		<i>Sporobolus heterolepis</i> (Prairie Dropseed) 5/	0.5 (0.5)
		Annual Ryegrass	25 (25)
		Oats, Spring	25 (25)
		Perennial Ryegrass	15 (15)
		4B	Wetland Grass and Sedge Mixture 2/ 6/
Oats, Spring	25 (25)		
Wetland Grasses (species below) 5/	6 (6)		
	<u>Species:</u>	<u>% By Weight</u>	
	<i>Calamagrostis canadensis</i> (Blue Joint Grass)		12
	<i>Carex lacustris</i> (Lake-Bank Sedge)		6
	<i>Carex slipata</i> (Awl-Fruited Sedge)		6
	<i>Carex stricta</i> (Tussock Sedge)		6
	<i>Carex vulpinoidea</i> (Fox Sedge)		6
	<i>Eleocharis acicularis</i> (Needle Spike Rush)		3
	<i>Eleocharis obtusa</i> (Blunt Spike Rush)		3
	<i>Glyceria striata</i> (Fowl Manna Grass)		14
	<i>Juncus effusus</i> (Common Rush)		6
	<i>Juncus tenuis</i> (Slender Rush)		6
	<i>Juncus torreyi</i> (Torrey's Rush)		6
	<i>Leersia oryzoides</i> (Rice Cut Grass)		10
	<i>Scirpus acutus</i> (Hard-Stemmed Bulrush)		3
	<i>Scirpus atrovirens</i> (Dark Green Rush)		3
	<i>Bolboschoenus fluviatilis</i> (River Bulrush)		3
	<i>Schoenoplectus tabernaemontani</i> (Softstem Bulrush)		3
	<i>Spartina pectinata</i> (Cord Grass)		4

Class – Type	Seeds	lb/acre (kg/hectare)
5	Forb with Annuals Mixture 2/ 5/ 6/	Annuals Mixture (Below) Forb Mixture (Below)
		1 (1) 10 (10)
	Annuals Mixture - Mixture not exceeding 25 % by weight of any one species, of the following:	
	<i>Coreopsis lanceolata</i> (Sand Coreopsis)	
	<i>Leucanthemum maximum</i> (Shasta Daisy)	
	<i>Gaillardia pulchella</i> (Blanket Flower)	
	<i>Ratibida columnifera</i> (Prairie Coneflower)	
	<i>Rudbeckia hirta</i> (Black-Eyed Susan)	
	Forb Mixture - Mixture not exceeding 5 % by weight PLS of any one species, of the following:	
	<i>Amorpha canescens</i> (Lead Plant) 4/	
	<i>Anemone cylindrica</i> (Thimble Weed)	
	<i>Asclepias tuberosa</i> (Butterfly Weed)	
	<i>Aster azureus</i> (Sky Blue Aster)	
	<i>Symphotrichum leave</i> (Smooth Aster)	
	<i>Aster novae-angliae</i> (New England Aster)	
	<i>Baptisia leucantha</i> (White Wild Indigo) 4/	
	<i>Coreopsis palmata</i> (Prairie Coreopsis)	
	<i>Echinacea pallida</i> (Pale Purple Coneflower)	
	<i>Eryngium yuccifolium</i> (Rattlesnake Master)	
	<i>Helianthus mollis</i> (Downy Sunflower)	
	<i>Heliopsis helianthoides</i> (Ox-Eye)	
	<i>Liatris aspera</i> (Rough Blazing Star)	
	<i>Liatris pycnostachya</i> (Prairie Blazing Star)	
	<i>Monarda fistulosa</i> (Prairie Bergamot)	
	<i>Parthenium integrifolium</i> (Wild Quinine)	
	<i>Dalea candida</i> (White Prairie Clover) 4/	
	<i>Dalea purpurea</i> (Purple Prairie Clover) 4/	
	<i>Physostegia virginiana</i> (False Dragonhead)	
	<i>Potentilla arguta</i> (Prairie Cinquefoil)	
	<i>Ratibida pinnata</i> (Yellow Coneflower)	
	<i>Rudbeckia subtomentosa</i> (Fragrant Coneflower)	
	<i>Silphium laciniatum</i> (Compass Plant)	
	<i>Silphium terebinthinaceum</i> (Prairie Dock)	
	<i>Oligoneuron rigidum</i> (Rigid Goldenrod)	
	<i>Tradescantia ohiensis</i> (Spiderwort)	
	<i>Veronicastrum virginicum</i> (Culver's Root)	

Class – Type		Seeds	lb/acre (kg/hectare)
5A	Large Flower Native Forb Mixture 2/ 5/ 6/	Forb Mixture (see below)	5 (5)
	<u>Species:</u>		<u>% By Weight</u>
	<i>Aster novae-angliae</i> (New England Aster)		5
	<i>Echinacea pallida</i> (Pale Purple Coneflower)		10
	<i>Helianthus mollis</i> (Downy Sunflower)		10
	<i>Heliopsis helianthoides</i> (Ox-Eye)		10
	<i>Liatris pycnostachya</i> (Prairie Blazing Star)		10
	<i>Ratibida pinnata</i> (Yellow Coneflower)		5
	<i>Rudbeckia hirta</i> (Black-Eyed Susan)		10
	<i>Silphium laciniatum</i> (Compass Plant)		10
	<i>Silphium terebinthinaceum</i> (Prairie Dock)		20
	<i>Oligoneuron rigidum</i> (Rigid Goldenrod)		10
5B	Wetland Forb 2/ 5/ 6/	Forb Mixture (see below)	2 (2)
	<u>Species:</u>		<u>% By Weight</u>
	<i>Acorus calamus</i> (Sweet Flag)		3
	<i>Angelica atropurpurea</i> (Angelica)		6
	<i>Asclepias incarnata</i> (Swamp Milkweed)		2
	<i>Aster puniceus</i> (Purple Stemmed Aster)		10
	<i>Bidens cernua</i> (Beggarticks)		7
	<i>Eutrochium maculatum</i> (Spotted Joe Pye Weed)		7
	<i>Eupatorium perfoliatum</i> (Boneset)		7
	<i>Helenium autumnale</i> (Autumn Sneezeweed)		2
	<i>Iris virginica shrevei</i> (Blue Flag Iris)		2
	<i>Lobelia cardinalis</i> (Cardinal Flower)		5
	<i>Lobelia siphilitica</i> (Great Blue Lobelia)		5
	<i>Lythrum alatum</i> (Winged Loosestrife)		2
	<i>Physostegia virginiana</i> (False Dragonhead)		5
	<i>Persicaria pensylvanica</i> (Pennsylvania Smartweed)		10
	<i>Persicaria lapathifolia</i> (Curlytop Knotweed)		10
	<i>Pychanthemum virginianum</i> (Mountain Mint)		5
	<i>Rudbeckia laciniata</i> (Cut-leaf Coneflower)		5
	<i>Oligoneuron riddellii</i> (Riddell Goldenrod)		2
	<i>Sparganium eurycarpum</i> (Giant Burreed)		5
6	Conservation Mixture 2/ 6/	<i>Schizachyrium scoparium</i> (Little Blue Stem) 5/ <i>Elymus canadensis</i> (Canada Wild Rye) 5/ Buffalo Grass 5/ 7/ Vernal Alfalfa 4/ Oats, Spring	5 (5) 2 (2) 5 (5) 15 (15) 48 (55)
6A	Salt Tolerant Conservation Mixture 2/ 6/	<i>Schizachyrium scoparium</i> (Little Blue Stem) 5/ <i>Elymus canadensis</i> (Canada Wild Rye) 5/ Buffalo Grass 5/ 7/ Vernal Alfalfa 4/ Oats, Spring <i>Puccinellia distans</i> (Fults Saltgrass or Salty Alkaligrass)	5 (5) 2 (2) 5 (5) 15 (15) 48 (55) 20 (20)
7	Temporary Turf Cover Mixture	Perennial Ryegrass Oats, Spring	50 (55) 64 (70)

Notes:

- 1/ Seeding shall be performed when the ambient temperature has been between 45°F (7°C) and 80°F (27°C) for a minimum of seven (7) consecutive days and is forecasted to be the same for the next five (5) days according to the National Weather Service.
- 2/ Seeding shall be performed in late fall through spring beginning when the ambient temperature has been below 45°F (7°C) for a minimum of seven (7) consecutive days and ending when the ambient temperature exceeds 80°F (27°C) according to the National Weather Service.
- 3/ Specific variety as shown in the plans or approved by the Engineer.
- 4/ Inoculation required.
- 5/ Pure Live Seed (PLS) shall be used.
- 6/ Fertilizer shall not be used.
- 7/ Seed shall be primed with KNO_3 to break dormancy and dyed to indicate such.

Seeding will be inspected after a period of establishment. The period of establishment shall be six (6) months minimum, but not to exceed nine (9) months. After the period of establishment, areas not exhibiting 75 percent uniform growth shall be interseeded or reseeded, as determined by the Engineer, at no additional cost to the Department."