

MassDOT Wetland Seed Mixes

DESIGNER: Please include mix number for with the description when the mix is inserted into the Wetland Mitigation Special Provisions. When mix is a stand-alone bid item, number shall serve as the item number. Seed rate provided and any additional information must be inserted into the specifications.

MIX DESCRIPTIONS

765.551 *Wetland Seed – FACW Meadow Mix*

Mix contains typical species for sunny, wet meadows or drainage areas.
Diverse species provide pollinator habitat and erosion control.

765.552 *Wetland Seed – Obligate Mix*

Mix contains species for wet sites where there is standing water for long periods of time.

765.553 *Wetland Seed – Riparian Mix*

Mix contains species that tolerate a range of conditions from dry upland to mesic lowland and provides pollinator habitat. Best for open riverbanks and basins rather than forest streambank.

Appropriate for infiltration basins.

765.554 *Wetland Seed – Seasonally Flooded Mix*

Mix may be used for flooded riparian areas as well as for basins or wetlands. Includes species that tolerate wet (~30%) to mesic conditions and provides pollinator habitat.

Appropriate for infiltration basins.

765.555 *Wetland Seed – Part Shade Mix*

Shade-tolerant mix of native species for areas that are shaded by trees.
Good for bioengineering sites.

Link to Mixes [Control & click for link]

765.551	Wetland Seed – FACW Meadow Mix	2
765.552	Wetland Seed – Obligate	3
765.553	Wetland Seed – Riparian	4
765.554	Wetland Seed– Seasonally Flooded	5
765.555	Wetland Seed – Part Shade	6

765.551 Wetland Seed – FACW Meadow Mix

Mix 765.551 Wetland Mix – FACW Meadow Mix

<u>Botanical Name</u>	<u>Common Name</u>	<u>% PLS by Weight</u>
Grass		
Carex vulpinoidea	Fox Sedge	26.00%
Elymus riparius	Riverbank Wild Rye	23.00%
Carex lurida	Shallow Sedge	17.00%
Carex lupulina	Hop Sedge	8.00%
Scirpus atrovirens	Green Bulrush	3.00%
Juncus effusus	Soft Rush	2.50%
Cinna arundinacea	Sweet Woodreed	2.00%
Carex comosa	Bearded Sedge	2.00%
Glyceria canadensis	Manna Grass	1.00%
Scirpus cyperinus	Woolgrass	1.00%
Juncus tenuis	Path Rush	0.50%
		86.00%
Herb/Forb		
Verbena hastata	Blue Vervain	4.00%
Asclepias incarnata	Swamp Milkweed	2.00%
Aster prenanthoides	Zig Zag Aster	1.00%
Sisyrinchium angustifolium	Narrowleaf blue-eyed grass	1.00%
Eupatorium maculatum	Joe-pye Weed	1.00%
Aster puniceus	Aster - Swamp	1.00%
Aster novae-angliae	New England Aster	1.00%
Vernonia noveboracensis	New York Ironweed	1.00%
Eupatorium perfoliatum	Boneset	1.00%
Aster umbellatus	Flat Topped White Aster	0.50%
Mimulus ringens	Monkey Flower	0.50%
		14.00%
		100.00%

Seeding Rate:

Species ecotype shall be as native to New England region as possible. Apply this mix at 20 lbs PLS/acre.

765.552 Wetland Seed – Obligate Mix

Mix 765.552 Wetland Mix – Obligate Mix

	<u>Botanical Name</u>	<u>Common Name</u>	<u>% PLS By Weight</u>
Grass			
	Carex vulpinoidea	Fox Sedge	26.50%
	Carex lurida	Shallow Sedge	15.00%
	Sparganium eurycarpum	Giant Bur Reed Eco PA	10.00%
	Carex lupulina	Hop Sedge	7.00%
	Carex crinita	Fringed Sedge	6.00%
	Scirpus cyperinus	Woolgrass	4.00%
	Juncus effusus	Soft Rush	3.00%
	Carex comosa	Bearded Sedge	3.00%
	Scirpus atrovirens	Green Bulrush	3.00%
	Sparganium americanum	Burrweed	2.50%
	Scirpus validus	Bulrush, soft-stem	2.00%
	Carex stricta	Tussock Sedge	1.00%
	Glyceria canadensis	Manna Grass	1.00%
			84.00%
Herb/Forb			
	Verbena hastata	Blue Vervain	4.00%
	Aster puniceus	Aster - Swamp	2.00%
	Eupatorium maculatum	Joe-pye Weed	1.50%
	Eupatorium perfoliatum	Boneset	2.00%
	Iris versicolor	Blue Flag Iris	2.00%
	Alisma subcordatum	Mud Plantain	1.00%
	Vernonia noveboracensis	New York Ironweed	1.00%
	Bidens cernua	Nodding Burr Marigold	1.00%
	Solidago patula	Roughleaf goldenrod	0.50%
	Mimulus ringens	Monkey Flower	0.50%
	Chelone glabra	White Turtlehead	0.50%
			16.00%
			100.00%

Seeding Rate:

Species ecotype shall be as native to New England region as possible. Apply this mix at 20 lbs PLS/acre.

765.553 Wetland Seed – Riparian Mix

Mix 765.553 Wetland – Riparian Mix

	<u>Botanical Name</u>	<u>Common Name</u>	<u>% PLS</u> <u>By</u> <u>Weight</u>
Grass			
	Sorghastrum nutans NY Eco	Indiangrass NY Ecotype	14.00%
	Schizachyrium scoparium	Little Blue Stem	14.00%
	Elymus riparius	Riverbank Wild Rye	10.00%
	Elymus virginicus	Virginia Wild Rye	10.00%
	Panicum clandestinum 'Tioga'	Deer Tongue 'Tioga'	9.00%
	Andropogon gerardii NY Eco	Big Bluestem NY Eco	8.00%
	Carex vulpinoidea	Fox Sedge	7.00%
	Panicum virgatum	Switchgrass	3.00%
	Juncus effusus	Soft Rush	2.00%
	Agrostis perennans	Upland Bentgrass	2.00%
	Scirpus atrovirens	Green Bulrush	1.00%
			80.00%
Herb/Forb			
	Chamaecrista fasciculata	Partridge Pea	3.00%
	Verbena hastata	Blue Vervain	3.00%
	Asclepias incarnata	Swamp Milkweed	3.00%
	Heliopsis helianthoides	Ox-Eye Sunflower	2.00%
	Eupatorium perfoliatum	Boneset	2.00%
	Aster umbellatus	Flat Topped White Aster	1.00%
	Aster prenanthoides	Zig Zag Aster	1.00%
	Aster puniceus	Aster – Swamp	1.00%
	Aster novae-angliae	New England Aster	1.00%
	Eupatorium maculatum	Joe-pye Weed	1.00%
	Monarda fistulosa	Wild Bergamot	1.00%
	Vernonia noveboracensis	New York Ironweed	1.00%
			20.00%
			100.00%

Seeding Rate:

Species ecotype shall be as native to New England region as possible. Apply this mix at 20 lbs PLS/acre.

FOR USE WITH SLOPES: Add 30 lbs/acre of a cover crop if erosions is a concern. For a cover crop use either grain oats (1 Jan to 31 July) or grain rye (1 Aug to 31 Dec). Cover crop shall be incidental to seeding Mix.

765.554 Wetland Seed– Seasonally Flooded Mix

Mix 765.554 Wetland – Seasonally Flooded Mix

	<u>Botanical Name</u>	<u>Common Name</u>	<u>% PLS</u> <u>By</u> <u>Weight</u>
Grass			
	Elymus riparius	Riverbank Wild Rye	20.00%
	Andropogon gerardii NY Eco	Big Bluestem NY Eco	12.00%
	Carex lupulina	Hop Sedge	10.00%
	Panicum clandestinum 'Tioga'	Deer Tongue 'Tioga'	10.00%
	Carex vulpinoidea	Fox Sedge	10.00%
	Carex scoparia	Broom sedge	8.00%
	Sorghastrum nutans NY Eco	Indiangrass NY Ecotype	8.00%
	Panicum virgatum	Switch Grass	8.00%
	Juncus effusus	Soft Rush	2.00%
	Juncus tenuis	Path Rush	1.00%
			89.00%
Herb/Forb			
	Verbena hastata	Blue Vervain	4.00%
	Desmodium canadense	Showy Tick Trefoil	2.00%
	Eupatorium maculatum	Joe-pye Weed	1.00%
	Asclepias incarnata	Swamp Milkweed	1.00%
	Aster novae-angliae	New England Aster	1.00%
	Eupatorium perfoliatum	Boneset	0.70%
	Helenium autumnale	Common Sneezeweed	0.50%
	Aster puniceus	Aster - Swamp	0.50%
	Mimulus ringens	Monkey Flower	0.20%
	Vernonia noveboracensis	New York Ironweed	0.10%
			11.00%
			100.00%

Seeding Rate:

Species ecotype shall be as native to New England region as possible. Apply this mix at 20 lbs PLS/acre.

765.555 Wetland Seed – Part Shade Mix

Mix 765.555 Wetland Mix – Part Shade Mix

		<u>% PLS</u>
<u>Botanical Name</u>	<u>Common Name</u>	<u>By Weight</u>
Grass		
Poa palustris	Fowl Bluegrass	25.00%
Elymus riparius	Riverbank Wild Rye	19.00%
Carex lurida	Shallow Sedge	17.00%
Carex vulpinoidea	Fox Sedge	10.00%
Cinna arundinacea	Sweet Woodreed	5.00%
Sparganium eurycarpum	Giant Bur Reed Eco PA	4.00%
Carex scoparia	Broom sedge	4.00%
Carex lupulina	Hop Sedge	4.00%
Scirpus atrovirens	Green Bulrush	3.00%
Juncus effusus	Soft Rush	2.50%
Carex intumescens	Bladder Sedge	2.00%
Sparganium americanum	Burrweed	2.00%
Scirpus cyperinus	Woolgrass	1.00%
Carex crinita	Fringed Sedge	1.00%
Juncus tenuis	Path Rush	0.50%
		100.00%

Seeding Rate:

Species ecotype shall be as native to New England region as possible. Apply this mix at 20 lbs PLS/acre.