

Full Sun, Wetlands  
Spring 2010



**Emergent Seed Mix (dry seeded)**  
**Genesis Nursery, Inc. Tampico IL**  
**Illinois Permit # 3669**

This emergent seed mix can be planted as dried seed on dry soil before the wetland comes to normal water level.

A grass, sedge, rush and forb seed mix for shorelines and emergent mud flats, with gradual slopes down from the spring high water level.

This mix works when water levels drop seasonally. Do not plant below normal water level unless basin has a stoplog for dewatering, or you are wasting seed. Will not germinate under water. If there is a perpetual never lowering, normal waterlevel, use emergent and shoreline plugs. Dormant seed and net. Seedlings must be 18" tall before flooding, possibly taking two growing seasons! Expect zonation to develop in this community. This mix is intended to supplement a plug planting.

Species	lb/ac
Acorus americanus Sweet Flag	0.250
Alisma subcordatum Water plantain	0.250
Carex comosa Bottlebrush Sedge	0.375
Cephalanthus occidentalis Button Bush	0.125
Echinochloa crusgalli Barnyard Grass	2.000
Eleocharis palustris Marsh Spike Rush	0.063
Eleocharis Species Spikerush Species	0.063
Glyceria grandis Reed Manna Grass	0.125
Hibiscus laevis Halberd Leafed Rose Mallow	0.063
Iris virginica shrevei Blue Flag Iris	0.250
Juncus effusus Common Rush	0.125
Juncus Species Rush Species	0.188
Leersia oryzoides Rice Cut Grass	0.500
Pontederia cordata Pickerelweed	0.063
Sagittaria latifolia Common Arrowhead	0.500
Scirpus acutus (Schoenoplectus a.) Hard Stem Bulrush	0.063
Scirpus fluviatilis (Bulboschoenus f.) River Bulrush	0.125
Scirpus pungens (Schoenoplectus p.) Chairmakers Rush	0.125
Scirpus validus (Schoenoplectus tabernaemontani) Great Bulrush	0.250
Sparganium eurycarpum Bur Reed	0.100
Spartina pectinata Cord Grass	0.375
v120709	
total	5.978

permanent matrix 3.978  
All items subject to availability. Mix composition may vary seasonally.

**Emergent Seed Mix (wet seeded)**  
**Genesis Nursery, Inc. Tampico IL**  
**Illinois Permit # 3669**

This mix contains perishable and physically fragile seeds. It must be kept moist and refrigerated until sown. It cannot be drilled. It must be sown into shallow water or sown on mud and immediately flooded. It is not available for other than spring planting. Advance orders only to insure availability.

A grass, sedge, rush and forb seed mix for emergent mud flats and clean, quiet, shallow water, with gradual slopes down from the spring high water level. Most species will germinate under mudflat conditions; some will germinate in shallow water. Some species will not survive water level fluctuations during any growing season.

Expect zonation to develop in the community.

Species	lb/ac
Acorus americanus Sweet Flag	0.250
Alisma subcordatum Water plantain	0.094
Carex comosa Bottlebrush Sedge	0.375
Cephalanthus occidentalis Button Bush	0.125
Echinochloa crusgalli Barnyard Grass	2.000
Eleocharis palustris Marsh Spike Rush	0.063
Eleocharis Species Spikerush Species	0.063
Glyceria grandis Reed Manna Grass	0.031
Hibiscus species Rosemallow, Various	0.063
Iris virginica shrevei Blue Flag Iris	0.250
Juncus Species Wetland Rush Species	0.188
Leersia oryzoides Rice Cut Grass	0.500
Peltandra virginica Arrow Arum	1.000
Pontederia cordata Pickerelweed	0.063
Sagittaria latifolia Common Arrowhead	0.500
Scirpus acutus (Schoenoplectus a.) Hard Stem Bulrush	0.063
Scirpus fluviatilis (Bulboschoenus f.) River Bulrush	0.125
Scirpus pungens (Schoenoplectus p.) Chairmakers Rush	0.125
Scirpus validus (Schoenoplectus tabernaemontani) Great Bulrush	0.250
Sparganium eurycarpum Bur Reed	1.000
Zizania aquatica Wild Rice	1.000
v112109	
total	8.128
permanent matrix	6.128

All items subject to availability. Mix composition may vary seasonally.

**Emergent Shoreline / Wet Meadow Grasses Mix**

**Genesis Nursery, Inc. Tampico IL**

**Illinois Permit # 3669**

**PLS where applicable**

A grass seed mix for shorelines and mudflats, with gradual slopes up from the shoreline, but not for steep sided basins. This mix works when water levels drop occasionally. Do not plant below normal water level unless basin has a stoplog for prolonged dewatering. Will not germinate under water. Seedlings will not tolerate prolonged inundation. Seedlings must be 18" tall before flooding. Best dormant seeded.

Species	lb/ac
Agrostis alba palustris Bent Grass	1.000
Carex bebbii Bebb's Sedge	0.750
Carex comosa Bottlebrush Sedge	0.375
Carex hystericina Porcupine Sedge	0.188
Carex scoparia Pointed Broom Sedge	0.250
Echinochloa crusgalli Barnyard Grass	2.000
Eleocharis palustris Marsh Spike Rush	0.063
Eleocharis Species Spikerush Species	0.063
Elymus canadensis Canada Wild Rye	1.000
Elymus virginicus Virginia Wild Rye	1.000
Glyceria grandis Reed Manna Grass	0.031
Glyceria striata Fowl Manna Grass	0.125
Juncus Species Rush Species	0.125
Leersia oryzoides Rice Cut Grass	0.500
Scirpus acutus (Schoenoplectus a.) Hard Stem Bulrush	0.063
Scirpus atrovirens Dark Green Rush	0.500
Scirpus cyperinus Wool Grass	0.125
Scirpus pungens (Schoenoplectus p.) Chairmakers Rush	0.125
Scirpus validus (Schoenoplectus tabernaemontani) Great Bulrush	0.250
Sparganium eurycarpum Bur Reed	1.000
Spartina pectinata Cord Grass	0.375
v112109	
total	9.908
permanent matrix	8.908

All items subject to availability. Mix composition may vary seasonally.

**Emergent Shoreline / Wet Meadow with Flowers Mix**

**Genesis Nursery, Inc. Tampico IL**

**Illinois Permit # 3669**

**PLS where applicable**

A grass, rush, sedge, and forb seed mix for shorelines and mudflats, with gradual slopes up from the shoreline, grading into wetlands, but not for steep sided basins. This mix requires water levels to drop seasonally. Do not plant below normal water level unless basin has a stoplog for prolonged dewatering. Most species will not germinate under water. Seedlings will not tolerate prolonged inundation until 18" tall. Best dormant seeded and netted.

Species	lb/ac
Acorus americanus Sweet Flag	0.250
Agrostis alba palustris Bent Grass	1.000
Alisma subcordatum Water plantain	0.063
Asclepias incarnata Swamp Milkweed	0.125
Aster puniceus (Symphyotrichum puniceum) Swamp Aster	0.125
Aster simplex (Symphyotrichum lanceolatum) Panicked Aster	0.125
Bidens Species Bidens Species	0.250
Boltonia asteroides False Aster	0.094
Carex bebbii Bebb's Sedge	0.500
Carex comosa Bottlebrush Sedge	0.188
Carex hystericina Porcupine Sedge	0.125
Carex scoparia Pointed Broom Sedge	0.500
Cephalanthus occidentalis Button Bush	0.125
Echinochloa crusgalli Barnyard Grass	2.000
Eleocharis palustris Marsh Spike Rush	0.063
Eleocharis Species Spikerush Species	0.063
Elymus canadensis Canada Wild Rye	1.000
Elymus virginicus Virginia Wild Rye	1.000
Eupatorium maculatum (Eutrochium m.) Spotted Joe Pye Weed	0.031
Eupatorium perfoliatum Thoroughwort	0.031
Glyceria grandis Reed Manna Grass	0.031
Glyceria striata Fowl Manna Grass	0.125
Helenium autumnale Sneezeweed	0.063
Hibiscus laevis Halberd Leafed Rose Mallow	0.063
Iris virginica shrevei Blue Flag Iris	0.250
Juncus Species Rush Species	0.125
Leersia oryzoides Rice Cut Grass	0.500
Sagittaria latifolia Common Arrowhead	0.250
Scirpus acutus (Schoenoplectus a.) Hard Stem Bulrush	0.063
Scirpus atrovirens Dark Green Rush	0.500
Scirpus cyperinus Wool Grass	0.063
Scirpus pungens (Schoenoplectus p.) Chairmakers Rush	0.125
Scirpus validus (Schoenoplectus tabernaemontani) Great Bulrush	0.250
Silphium perfoliatum Cup Plant	0.125
Solidago gigantea Late Goldenrod	0.063
Sparganium eurycarpum Bur Reed	0.250
Spartina pectinata Cord Grass	0.375
Verbena hastata Blue Vervain	0.500
v120709	
total	11.379
permanent matrix	10.379

All items subject to availability. Mix composition may vary seasonally.

**Lo Pro Emergent Shoreline / Wet Meadow Grasses Mix**

**Genesis Nursery, Inc. Tampico, IL**

**Illinois Permit #3669**

**PLS where applicable**

A shorter grass, sedge, and rush mix for shorelines and mudflats, with gradual slopes up from the shoreline, grading into wetlands, not with dry, sloping banks. This mix works when water levels drop occasionally. Do not plant below normal water level unless basin has a stoplog for prolonged dewatering. Will not germinate under water and will not tolerate inundation immediately after germination!  
Dormant seed when possible and net.

Species	lb/ac
Acorus americanus Sweet Flag	0.250
Agrostis alba (A. gigantea) Red Top Grass	1.000
Agrostis alba palustris Bent Grass	1.000
Carex bebbii Bebb's Sedge	0.500
Carex comosa Bottlebrush Sedge	0.250
Carex hystericina Porcupine Sedge	0.250
Carex scoparia Pointed Broom Sedge	0.500
Carex vulpinoidea Fox Sedge	0.500
Echinochloa crusgalli Barnyard Grass	0.500
Eleocharis palustris Marsh Spike Rush	0.063
Eleocharis Species Spikerush Species	0.125
Elymus canadensis Canada Wild Rye	1.000
Elymus virginicus Virginia Wild Rye	1.000
Glyceria striata Fowl Manna Grass	1.000
Juncus effusus Common Rush	0.125
Juncus tenuis Path Rush	0.125
Juncus torreyi Torrey's Rush	0.125
Leersia oryzoides Rice Cut Grass	0.500
Muhlenbergia mexicana Leafy Satin Grass	0.031
Scirpus acutus (Schoenoplectus a.) Hard Stem Bulrush	0.063
Scirpus pungens (Schoenoplectus p.) Chairmakers Rush	0.125
v112109	
total	9.032
permanent matrix	7.032

All items subject to availability. Mix composition may vary seasonally.

**Lo Pro Emergent Shoreline /Wet Meadow with Flowers Mix**

**Genesis Nursery, Inc. Tampico, IL**

**Illinois Permit #3669**

**PLS where applicable**

A shorter mix of grasses, sedges, rushes, and forbs for shorelines and mudflats, with gradual slopes up from the shoreline, grading into wetlands. This mix works when water levels drop occasionally. Do not plant below normal water level unless basin has a stoplog for dewatering. Will not germinate under water.

Species	lb/ac
Acorus americanus Sweet Flag	0.250
Agrostis alba palustris Bent Grass	1.000
Alisma subcordatum Common Water Plantain	0.250
Ammannia robusta Scarlet Loosestrife	0.031
Asclepias incarnata Swamp Milkweed	0.125
Aster puniceus (Symphyotrichum puniceum) Swamp Aster	0.125
Aster simplex (Symphyotrichum lanceolatum) Panicked Aster	0.125
Bidens Species Bidens Species	0.125
Boltonia asteroides False Aster	0.125
Carex bebbii Bebb's Sedge	0.500
Carex comosa Bottlebrush Sedge	0.250
Carex hystericina Porcupine Sedge	0.250
Carex scoparia Pointed Broom Sedge	0.500
Echinochloa crusgalli Barnyard Grass	0.500
Eleocharis palustris Marsh Spike Rush	0.063
Eleocharis Species Spikerush Species	0.125
Elymus canadensis Canada Wild Rye	1.000
Elymus virginicus Virginia Wild rye	1.000
Eupatorium perfoliatum Thoroughwort	0.031
Glyceria grandis Reed Manna Grass	0.031
Glyceria striata Fowl Manna Grass	1.000
Iris virginica shrevei Blue Flag Iris	0.250
Juncus effusus Common Rush	0.125
Juncus tenuis Path Rush	0.125
Juncus torreyi Torrey's Rush	0.125
Leersia oryzoides Rice Cut Grass	1.000
Muhlenbergia mexicana Leafy Satin Grass	0.031
Penthorum sedoides Ditch Stonecrop	0.031
Sagittaria latifolia Common Arrowhead	0.250
Scirpus acutus (Schoenoplectus a.) Hard Stem Bulrush	0.063
Scirpus pungens (Schoenoplectus p.) Chairmakers Rush	0.125
Solidago gigantea Late Goldenrod	0.125
Spartina pectinata Cord Grass	0.375
Verbena hastata Blue Vervain	0.375
v112109	
total	10.406
permanent matrix	9.406

All items subject to availability. Mix composition may vary seasonally.

**Shoreline Wet Edge Mix**

**Genesis Nursery, Inc. Tampico, IL**

**Illinois Permit #3669**

**PLS where applicable**

A grass, sedge, rush, and forb seed mix for muddy pond and lake shorelines, muddy ditches. A mix meant for areas where there is an abrupt change to a steep, drier slope. Do not plant below normal water level unless basin has a stop log for prolonged dewatering to maintain mudflat conditions, or you have money to burn. Will not germinate under water. Only a few of the species we offer will germinate under water. The performance of all shoreline and emergent seed mixes are compromised by basins with a "normal" water level, and no seasonal low water level.

Species	lb/ac
Agrostis alba Red Top Grass	1.000
Agrostis alba palustris Bent Grass	1.000
Alisma subcordatum Common Water Plantain	0.375
Asclepias incarnata Swamp Milkweed	0.125
Aster simplex (Symphyotrichum lanceolatum) Panicked Aster	0.031
Bidens Species Bidens Species	0.250
Carex bebbii Bebb's Sedge	0.250
Carex comosa Bottlebrush Sedge	0.125
Carex cristatella Crested Sedge	0.125
Carex scoparia Pointed Broom Sedge	0.250
Carex stipata Awl-fruited Sedge	0.125
Carex vulpinoidea Fox Sedge	0.500
Cyperus Species Flat Nut Sedge Species	0.375
Eleocharis acicularis Needle Spike Rush	0.125
Eleocharis obtusa Spike Rush	0.125
Eleocharis palustris Marsh Spike Rush	0.125
Elymus canadensis Canada Wild Rye	1.000
Elymus virginicus Virginia Wild rye	1.000
Eupatorium perfoliatum Thoroughwort	0.125
Glyceria striata Fowl Manna Grass	0.125
Juncus Species Rush Species	0.031
Leersia oryzoides Rice Cut Grass	1.000
Mimulus ringens Monkey Flower	0.031
Penthorum sedoides Ditch Stonecrop	0.001
Rudbeckia laciniata Green Coneflower	0.031
Sagittaria latifolia Duck Potato	0.125
Scirpus atrovirens Dark Green Rush	0.500
Scirpus pendulus Red Bulrush	0.063
Scirpus validus (Schoenoplectus tabernaemontani) Great Bulrush	0.063
Sparganium eurycarpum Bur Reed	0.500
Verbena hastata Blue Vervain	0.125
v112109	
total	9.627
permanent matrix	7.627

All items subject to availability. Mix composition may vary seasonally.

A toilet bowl mix, for those areas around detention/retention basins, that are steeply sloping, ceramic-clay hard soils, and alternately wet and dry. Instead of gentle, gradual slopes, more green open space, we crowd in more parking or another duplex or condo. These slopes are about as natural as, and as easy to vegetate as, the sides of a toilet bowl. Look close, there goes the Tidy-Bowl© man.

**Ground Water Wetland Mix (Fens, seeps and sedge meadows)**

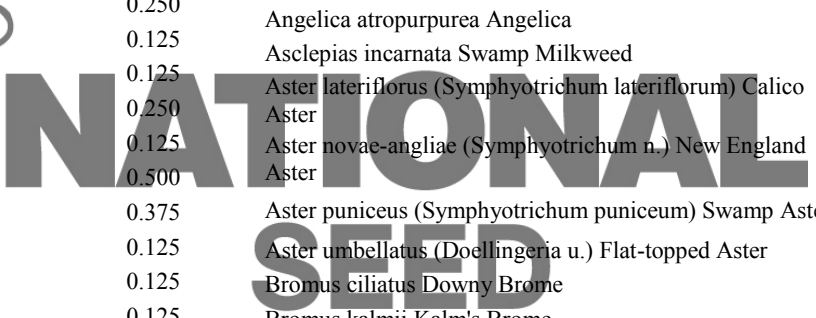
**Genesis Nursery, Inc. Tampico, IL**

**Illinois Permit #3669**

**PLS where applicable**

A mix for seeps, fens, and springy hillsides. A mix for cool, clean ground water wetlands, with insitu soils. With minor modifications, this mix will work in the elusive "restored sedge meadow". Let us custom tailor your seed mix. Not for use in surface water wetlands. Must dormant seed. Advance order only.

Species	
Andropogon gerardii Big Bluestem	2.000
Angelica atropurpurea Angelica	0.750
Asclepias incarnata Swamp Milkweed	0.250
Aster lateriflorus (Symphyotrichum lateriflorum) Calico Aster	0.063
Aster novae-angliae (Symphyotrichum n.) New England Aster	0.125
Aster puniceus (Symphyotrichum puniceum) Swamp Aster	0.063
Aster umbellatus (Doellingeria u.) Flat-topped Aster	0.031
Bromus ciliatus Downy Brome	0.125
Bromus kalmii Kalm's Brome	0.125
Cacalia plantaginea Prairie Indian Grass Plantain	0.031
Calamagrostis canadensis Blue Joint Grass	0.125
Calamagrostis inexpectata Bog Reed	0.015
Caltha palustris Marsh Marigold (fall seedings only)	0.031
Carex bebbii Bebb's Sedge	0.250
Carex buxbaumii Andes Mint Sedge	0.063
Carex granularis Meadow Sedge	0.063
Carex hystericina Porcupine Sedge	0.188
Carex scoparia Pointed Broom Sedge	0.250
Chelone glabra Turtlehead	0.031
Echinochloa crusgalli Barnyard Grass	0.500
Eupatorium maculatum (Eutrochium m.) Spotted Joe Pye Weed	0.063
Eupatorium perfoliatum Boneset	0.063
Helenium autumnale Sneezeweed	0.063
Iris virginica shrevei Blue Flag Iris	0.188
Liatris spicata Spiked Gayfeather	0.125
Lycopus americanus Common Water Horehound	0.063
Lysimachia hybrida River Loosestrife	0.031



Lysimachia quadriflora Narrow-leafed Loosestrife	0.031
Mentha arvensis Wild Mint	0.015
Onoclea sensibilis Sensitive Fern (fall seedings only)	0.031
Pedicularis lanceolata Swamp Betony	0.015
Pycnanthemum virginianum Mt. Mint	0.125
Rosa palustris Swamp Rose	0.063
Rumex orbiculatus Great Water Dock	0.188
Scirpus acutus (Schoenoplectus a.) Hard Stem Bulrush	0.250
Silphium perfoliatum Cup Plant	0.188
Solidago gigantea Late Goldenrod	0.063
Solidago ohioensis (Oligoneuron o.) Ohio Goldenrod	0.031
Solidago patula Swamp Goldenrod	0.031
Solidago riddellii (Oligoneuron r.) Riddell's Goldenrod	0.125
Sorghastrum nutans Indian Grass	4.000
Zizia aurea Golden Alexander	0.125
v120709	
total	10.956
permanent matrix	10.456

All items subject to availability. Mix composition may vary seasonally.

This mix has seeds that are short lived or recalcitrant, and can only be used in the appropriate season!

**Urban Sedge Meadow Mix**  
**Genesis Nursery, Inc. Tampico IL**  
**Illinois Permit# 3669**  
**PLS where applicable**

A caespitose sedge dominated mix with grasses, rushes, and forbs for restored wetlands with good hydric soils and hydrology better than typical detention basins. Our bunch type sedges come easier from seed than rhizomatous sedges, and are more affordable, and realistically available throughout the growing season. The sedge dominated meadow without the rare expensive and usually misused conservative ground water sedges with more relatively conservative forbs. Not for dirty water. Dormant seed.

Species	lb / acre
Agrostis hyemalis Hairgrass	0.031
Aster novae-angliae (Symphyotrichum n.) New England Aster	0.125
Aster puniceus (Symphyotrichum puniceum) Swamp Aster	0.031
Bidens cernua Nodding Bur Marigold	0.031
Cacalia suaveolens Sweet Indian Grass Plantain	0.031
Calamagrostis canadensis Blue Joint Grass	0.031
Carex annectens xanthocarpa Yellow-fruited Sedge	0.125
Carex bebbii Bebb's Sedge	0.250
Carex comosa Bottlebrush Sedge	0.188
Carex granularis Meadow Sedge	0.031
Carex hystericina Porcupine Sedge	0.250
Carex lupuliformis Knobbed Hop Sedge	0.125
Carex projecta Necklace Sedge	0.125
Carex scoparia Pointed Broom Sedge	0.250

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 www.natseed.com

Carex vulpinoidea Fox Sedge	0.500
Eleocharis Species Spike Rush Species	0.125
Elymus canadensis Canada Wild Rye	1.000
Elymus virginicus Virginia Wild Rye	2.000
Eupatorium maculatum (Eutrochium m.) Spotted Joe Pye Weed	0.063
Eupatorium perfoliatum Boneset	0.031
Gentiana andrewsii Bottle Gentian	0.125
Helenium autumnale Sneezeweed	0.063
Juncus dudleyi Dudley's Rush	0.031
Juncus effusus Common Rush	0.031
Juncus torreyi Torrey's Rush	0.031
Liatris spicata Spiked Gayfeather	0.125
Leersia oryzoides Rice Cut Grass	0.125
Lycopus americanus Common Water Horehound	0.063
Lysimachia hybrida River Loosestrife	0.031
Lythrum alatum Winged Loosestrife	0.015
Mimulus ringens Monkey Flower	0.015
Monarda fistulosa Bergamot	0.125
Napaea dioica Glade Mallow	0.125
Penstemon digitalis Foxglove Beardtongue	0.125
Penthorum sedoides Ditch Stonecrop	0.031
Physostegia virginiana False Dragonhead	0.063
Poa palustris Marsh Blue Grass	0.375
Pycnanthemum tenuifolium Slender Mt mint	0.063
Pycnanthemum virginianum Common Mt. Mint	0.125
Rosa palustris Swamp Rose	0.015
Rudbeckia subtomentosa Sweet Coneflower	0.188
Scirpus atrovirens Dark Green Rush	0.375
Scirpus cyperinus Wool Grass	0.063
Solidago gigantea Late Goldenrod	0.063
Solidago ohioensis (Oligoneuron o.) Ohio Goldenrod	0.015
Solidago riddellii (Oligoneuron r.) Riddell's Goldenrod	0.125
Spartina pectinata Cord Grass	0.500
Thalictrum dasycarpum Purple Meadow Rue	0.125
Verbena hastata Blue Vervain	0.500
Vernonia fasciculata Common Ironweed	0.125
Zizia aurea Golden Alexander	0.063
v112109	
total	9.187
permanent matrix	9.187

This seed mix is intended for in situ soils, not constructed soils at building sites. Never for primary detention!

All items subject to availability. Mix composition may vary seasonally.

**NATIONAL SEED**

All items subject to availability. Mix composition may vary seasonally.

**Vegetated Drainage Swale Seed Mix**

**Genesis Nursery, Inc. Tampico IL**

**Illinois Permit# 3669**

**PLS where applicable**

A grass, sedge, and forb seed mix for low areas where water collects or runs after heavy rains, and the soil remains moist between rains. An integral part of any native landscape. If drainage is from parking lots, salted roads, etc, or chemically laden, toxic turf, use Sedge Ghetto or Urban wetland/floodplain. Best if dormant seeded.

Species	Lb/ac
Agrostis alba palustris Bent Grass	2.000
Carex bebbii Bebb's Sedge	0.500
Carex cristatella Crested Sedge	0.125
Carex stipata Awl-fruited Sedge	0.125
Carex scoparia Pointed Broom Sedge	0.188
Carex vulpinoidea Fox Sedge	0.500
Eleocharis Species Spike Rush Species	0.063
Elymus canadensis Nodding Wild Rye	1.000
Elymus virginicus Virginia Wild Rye	2.000
Glyceria striata Fowl Manna Grass	0.250
Juncus balticus littoralis Lake Shore Rush	0.063
Juncus Species Rush Species	0.063
Leersia oryzoides Rice Cut Grass	0.063
Scirpus atrovirens Dark Green Rush	0.250
Scirpus cyperinus Wool Grass	0.125
Scirpus pendulus Red Bulrush	0.015
Spartina pectinata Cord Grass	0.500
Acorus americanus Sweet Flag	0.063
Alisma subcordatum Water Plantain	0.188
Asclepias incarnata Swamp Milkweed	0.125
Bidens Species Bidens Species	0.063
Eupatorium maculatum (Eutrochium m.) Spotted Joe Pye Weed	0.125
Helenium autumnale Sneezeweed	0.188
Iris virginica shrevei Blue Flag Iris	0.063
Liatris pycnostachya Prairie Blazingstar	0.125
Lobelia Species Lobelia Species	0.094
Mimulus ringens Monkey Flower	0.031
Pycnanthemum virginianum Common Mt Mint	0.125
Rumex altissimus Pale Dock	0.125
Silphium perfoliatum Cup Plant	0.125
Solidago gigantea Late Goldenrod	0.063
Verbena hastata Blue Vervain	0.250
Vernonia fasciculata Common Ironweed	0.250
v112109	
total	9.831
permanent matrix	7.831

**Low Profile Vegetated Drainage Swale Seed Mix**

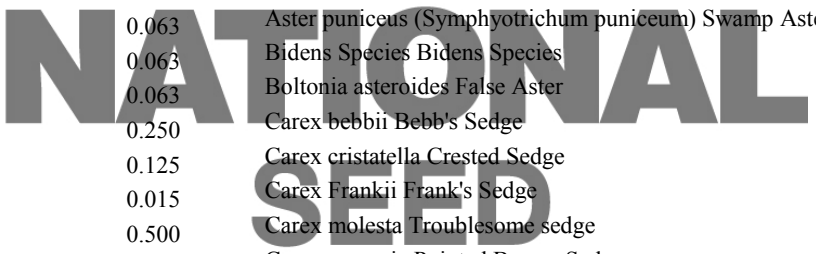
**Genesis Nursery, Inc. Tampico IL**

**Illinois Permit# 3669**

**PLS where applicable**

A mix of medium to low grasses, sedges, rushes, and forb seed for low areas where water collects or runs after heavy rains, and the soil is moist fall, winter and spring. An integral part of any native landscape. If drainage is from parking lots, salted roads, etc, or chemically laden, toxic turf, use Sedge Ghetto or Urban wetland/floodplain. Best if dormant seeded and straw netted, but if the water will have a lot of energy, seed and net in spring. Height depends on fertility and age of stand. Low profile for those toilet trained at gun point who think plants in a hole should be short. And we aint talking bioretention here either, folks.

species	Lb/ac
Agrostis alba palustris Bent Grass	2.000
Acorus americanus Sweet Flag	0.063
Alisma subcordatum Water Plantain	0.500
Asclepias incarnata Swamp Milkweed	0.250
Aster novae-angliae (Symphyotrichum n.) New England Aster	0.188
Aster puniceus (Symphyotrichum puniceum) Swamp Aster	0.063
Bidens Species Bidens Species	0.063
Boltonia asteroides False Aster	0.125
Carex bebbii Bebb's Sedge	0.375
Carex cristatella Crested Sedge	0.125
Carex Frankii Frank's Sedge	0.250
Carex molesta Troublesome sedge	0.188
Carex scoparia Pointed Broom Sedge	0.375
Carex stipata Awl-fruited Sedge	0.125
Carex vulpinoidea Fox Sedge	0.500
Eleocharis Species Spike Rush Species	0.063
Elymus canadensis Nodding Wild Rye	2.000
Elymus virginicus Virginia Wild Rye	2.000
Eupatorium perfoliatum Boneset	0.125
Glyceria striata Fowl Manna Grass	0.500
Helenium autumnale Sneezeweed	0.125
Iris virginica shrevei Blue Flag Iris	0.063
Juncus Species Rush Species	0.125
Leersia oryzoides Rice Cut Grass	0.063
Liatris spicata Spiked Gayfeather	0.375
Lobelia Species Lobelia Species	0.094
Mimulus ringens Monkey Flower	0.031
Pycnanthemum virginianum Common Mt Mint	0.188
Scirpus atrovirens Dark Green Rush	0.250
Scirpus cyperinus Wool Grass	0.125
Scirpus pendulus Red Bulrush	0.015
Solidago gigantea Late Goldenrod	0.125



Verbena hastata Blue Vervain	0.500
Vernonia fasciculata Common Ironweed	0.188
v120709	
total	12.144
permanent matrix	10.144

All items subject to availability. Mix composition may vary seasonally.

The term drainage swale is a relative term that denotes a topographic low in the landscape that periodically receives excess runoff precipitation. It has no connotation of long-term soil moisture or the type of vegetation that will grow in the swale. The above mix is for soils that are moist most of the growing season. The following mix is for those not-so-wet swales.

**Mesic to Wet Stormwater Swale Seed Mix New**

**Genesis Nursery, Inc. Tampico, IL**

**Illinois Permit# 3669**

**PLS where applicable**

A seed mix for mesic to slightly wet, occasionally inundated ditches and drainage swales.

Species	lb/acre
Andropogon gerardii Big Bluestem	2.000
Carex bebbii Bebb's Sedge	0.500
Carex molesta Troublesome Sedge	0.250
Carex scoparia Pointed Broom Sedge	0.500
Elymus canadensis Canada Wild Rye	2.000
Elymus virginicus Virginia Wild Rye	2.000
Juncus tenuis Roadside Rush	0.125
Scirpus atrovirens Dark Green Rush	0.250
Sorghastrum nutans Indian Grass	3.000
Aster laevis (Symphyotrichum laeve) Smooth Blue Aster	0.250
Aster novae-angliae (Symphyotrichum n.) New England Aster	0.250
Aster simplex (Symphyotrichum lanceolatum) Panicked Aster	0.125
Eupatorium perfoliatum Thoroughwort	0.094
Silphium perfoliatum Cup Plant	0.031
Solidago gigantea Late Goldenrod	0.094
Verbena hastata Blue Vervain	0.312
Vernonia fasciculata Common Ironweed	0.125
Zizia aurea Golden Alexander	0.125
v120709	
total	12.031
permanent matrix	12.031

All items subject to availability. Mix composition may vary seasonally.

**Streamside Wetland Seed Mix**

**Genesis Nursery, Inc. Tampico, IL**

**Illinois Permit# 3669**

**PLS where applicable**

A mix of grasses, sedges, and forbs for level areas of rich soil immediately adjacent to clean, meandering streams in sensitive areas. This mix will not grow on stream banks, sand bars, or gravel bars, and should not be seeded there. Tolerant of occasional, or seasonal clean high water, not the toilet bowl flushes of urban streams. The antithesis of the Urban Floodplain. Best dormant seeded.

Species	lb/acre
Agrostis alba palustris Bent Grass	0.500
Alisma subcordatum Common Water Plantain	0.250
Angelica atropurpurea Angelica	0.250
Asclepias incarnata Swamp Milkweed	0.063
Aster novae-angliae (Symphyotrichum n.) New England Aster	0.015
Aster puniceus (Symphyotrichum puniceum) Swamp Aster	0.063
Bidens cernua Nodding Bur Marigold	0.063
Carex comosa Bottlebrush sedge	0.188
Carex cristatella Crested Sedge	0.188
Carex stipata Awl-fruited Sedge	0.125
Carex scoparia Pointed Broom Sedge	0.250
Carex vulpinoidea Fox Sedge	0.750
Chelone glabra Turtlehead	0.031
Clematis virginiana Virgin's Bower	0.031
Echinochloa crusgalli Barnyard Grass	1.000
Eleocharis Species Spikerush Species	0.125
Eupatorium maculatum (Eutrochium m.) Spotted Joe Pye Weed	0.063
Eupatorium perfoliatum Boneset	0.015
Glyceria striata Fowl Manna Grass	0.500
Heracleum maximum Cow Parsnip	0.250
Hibiscus palustris Swamp Rose Mallow	0.063
Impatiens capensis Orange Jewelweed	0.063
Iris virginica shrevei Blue Flag Iris	0.063
Leersia oryzoides Rice Cut Grass	1.000
Lobelia cardinalis Cardinal Flower	0.015
Lobelia siphilitica Great Blue Lobelia	0.015
Mimulus ringens Monkey Flower	0.015
Poa palustris Marsh Blue Grass	0.250
Rudbeckia laciniata Green Coneflower	0.031
Sagittaria latifolia Duck Potato	0.125
Sparganium eurycarpum Bur Reed	1.000
Thalictrum dasycarpum Purple Meadow Rue	0.125
Verbena hastata Blue Vervain	0.313
v112109	

total	7.798
permanent matrix	7.298

All items subject to availability. Mix composition may vary seasonally.



# NATIONAL SEED