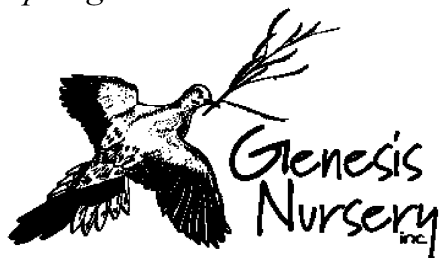


*Detention /Urban Disturbed Wetlands  
Spring 2010*



**Urban Wetland/Floodplain Seed Mixture**

**Genesis Nursery, Inc. Tampico IL**

**Illinois Permit #3669**

**PLS where applicable**

A seed mix for urban floodplains, tolerant of dirty storm water, some siltation, dolls heads and bleach bottles. Sun or partial shade. A mix for the Box Elder barrens. Best dormant seeded, but most wetland mixes are planted as soon as the wetland is constructed. Waiting may mean seeding on frozen ground or costly pumping to expose the area.

Species	lb/ac
Agrostis alba (A. gigantea) Red Top Grass	0.500
Agrostis alba palustris Bent Grass	1.000
Asclepias incarnata Swamp Milkweed	0.250
Boehmeria cylindrica False Nettle	0.063
Carex bebbii Bebb's Sedge	0.250
Carex scoparia Pointed Broom Sedge	0.250
Carex stipata Awl-fruited Sedge	0.063
Carex vulpinoidea Fox Sedge	1.000
Clematis virginiana Virgin's Bower	0.015
Cyperus Species Flat Sedge Species	0.031
Echinochloa crusgalli Barnyard Grass	4.000
Eleocharis Species Spike Rush Species	0.015
Elymus virginicus Virginia Wild Rye	3.000
Glyceria striata Fowl Manna Grass	0.125
Helianthus grosseserratus Sunflower from Hell	0.015
Juncus tenuis Path Rush	0.006
Juncus torreyi Torrey's Rush	0.006
Leersia oryzoides Rice Cut Grass	0.250
Lycopus americanus Common Water Horehound	0.125
Panicum dichotomiflorum Knee Grass	1.000
Penthorum sedoides Ditch Stonecrop	0.006
Rudbeckia laciniata Coneflower from Hell	0.063
Rumex altissimus Pale Dock	0.063
Scirpus atrovirens Dark Green Rush	0.625
Scirpus pendulus Red Bulrush	0.031
Scirpus validus (Schoenoplectus tabernaemontani) Great Bulrush	0.063
Silphium perfoliatum Cup Plant	0.125
Teucrium canadensis Germander	0.031
Verbena hastata Blue Vervain	0.250

v120709

total 13.221  
permanent matrix 11.721

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

**Sedge Ghetto TNG**

**Genesis Nursery, Inc. Tampico IL**

**Illinois Permit #3669**

**PLS where applicable**

A new and improved version of the original "beater wetland", native grasses, sedges, rushes, and forbs adapted to fluctuating, dirty water urban wetland mitigations, and other urban hydrologies. Best dormant seeded, but plant as the site becomes available, especially if the designer didn't put in a draw-down structure. Orthodox wetland seeds are best stored in/on the soil.

Species	lb/ac
Agrostis alba palustris Bent Grass	5.000
Alisma subcordatum Common Water Plantain	0.750
Ammannia robusta Scarlet Loosestrife	0.015
Amorpha fruticosa Indigo Bush	0.031
Asclepias incarnata Swamp Milkweed	0.250
Aster novae-angliae (Symphyotrichum n.) New England Aster	0.125
Aster simplex (Symphyotrichum lanceolatum) Panicked Aster	0.063
Bidens cernua Nodding Bur Marigold	0.094
Bidens frondosa Common Beggar's Tick	0.031
Boltonia asteroides False Aster	0.188
Carex bebbii Bebb's Sedge	0.500
Carex lupuliformis Knobbed Hop Sedge	0.063
Carex scoparia Pointed Broom Sedge	0.250
Carex stipata Awl-fruited Sedge	0.125
Carex vulpinoidea Fox Sedge	1.000
Echinochloa crusgalli Barnyard Grass	0.500
Eleocharis Species Spike Rush Species	0.063
Elymus virginicus Virginia Wild Rye	2.000
Eupatorium maculatum (Eutrochium m.) Spotted Joe Pye Weed	0.125
Glyceria striata Fowl Manna Grass	0.125
Helenium autumnale Sneezeweed	0.063
Juncus Species Rush Species	0.063
Leersia oryzoides Rice Cut Grass	0.094
Mimulus ringens Monkey Flower	0.031
Penthorum sedoides Ditch Stonecrop	0.001
Rudbeckia laciniata Coneflower from Hell	0.125
Sagittaria latifolia Duck Potato	0.063
Scirpus atrovirens Dark Green Rush	1.250
Scirpus fluviatilis (Bulboschoenus f.) River Bulrush	0.125
Scirpus pendulus Red Bulrush	0.031
Scirpus validus (Schoenoplectus tabernaemontani) Great Bulrush	0.125

Silphium perfoliatum Cup Plant	0.063
Verbena hastata Blue Vervain	0.500
Vernonia fasciculata Common Ironweed	0.063
v120709	
total lbs	13.892
permanent matrix	8.892

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

### Tough Native Shoreline

**Genesis Nursery, Inc. Tampico IL**

**Illinois Permit #3669**

**PLS where applicable**

A mix of wetland grasses, sedges, rushes, smartweeds and nurse crop for the harsh environment of detention basins, with many species tolerant of periodic low water. Actually, many wetland species are dependent on periodic low water, mudflats and droughts! Dormant seed. No western crap! This mix is intended to supplement a plug planting.

Species	lb/ac
Agrostis alba (A. gigantea) Red Top Grass	1.000
Agrostis alba palustris Bent Grass	0.125
Alisma subcordatum Common Water Plantain	0.250
Asclepias incarnata Swamp Milkweed	0.250
Bidens Species Bidens Species	0.250
Carex bebbii Bebb's Sedge	0.500
Carex stipata Awl-fruited Sedge	0.125
Carex vulpinoidea Fox Sedge	1.000
Cyperus Species Flat Sedge Species	0.375
Echinochloa crusgalli Barnyard Grass	0.500
Eleocharis obtusa Blunt Spike Rush	0.125
Eleocharis palustris Marsh Spike Rush	0.125
Glyceria striata Fowl Manna Grass	0.125
Juncus Species Rush Species	0.125
Leersia oryzoides Rice Cut Grass	0.250
Lycopus americanus Common Water Horehound	0.063
Panicum virgatum Switch Grass	1.000
Sagittaria latifolia Duck Potato	0.250
Scirpus atrovirens Dark Green Rush	0.500
Scirpus validus (Schoenoplectus tabernaemontani) Great Bulrush	0.125
Sparganium eurycarpum Bur Reed	1.000
Verbena hastata Blue Vervain	0.250
v120709	
total	8.313
permanent matrix	7.188

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

### Native Grassy Detention Mix

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

**Illinois Permit #3669**

**PLS where applicable**

A graminoid dominated mix of wetland grasses, sedges, rushes, smartweeds and nurse crop for the harsh environment of urban pond shorelines. Tolerant of less than optimal growing conditions. Hardy natives to help prevent shoreline erosion. Best dormant seeded and netted.

Species	lb/ac
Agrostis alba (A. gigantea) Red Top Grass	0.500
Agrostis alba palustris Bent Grass	2.000
Carex bebbii Bebb's Sedge	0.500
Carex granularis Meadow Sedge	0.063
Carex lupuliformis Knobbed Hop Sedge	0.063
Carex scoparia Pointed Broom Sedge	0.500
Carex stipata Awl-fruited Sedge	0.063
Carex vulpinoidea Fox Sedge	1.000
Cyperus Species Flat Sedge Species	0.031
Echinochloa crusgalli Barnyard Grass	5.000
Eleocharis Species Spike Rush Species	0.015
Elymus canadensis Nodding Wild Rye	2.000
Elymus virginicus Virginia Wild Rye	2.000
Glyceria striata Fowl Manna Grass	0.125
Juncus effusus Soft Rush	0.031
Juncus tenuis Path Rush	0.015
Juncus torreyi Torrey's Rush	0.015
Leersia oryzoides Rice Cut Grass	0.188
Panicum dichotomiflorum Knee Grass	1.000
Panicum virgatum Prairie Switch Grass	0.250
Poa palustris Marsh Blue Grass	0.500
Scirpus atrovirens Dark Green Rush	0.625
Scirpus cyperinus Wool Grass	0.125
Scirpus fluviatilis (Bulboschoenus f.) River Bulrush	0.125
Scirpus pendulus Red Bulrush	0.015
Scirpus pungens (Schoenoplectus p.) Chairmakers Rush	0.625
Scirpus validus (Schoenoplectus tabernaemontani) Great Bulrush	0.031
v111909	
total	17.404
permanent matrix	14.904

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

Do not pass go, do not collect \$200, go directly to jail.

**Native Lo Pro Detention / Floodplain Mix**

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

**Illinois Permit #3669**

**PLS where applicable**

A mix of shorter wetland grasses, sedges, rushes, and forbs for the harsh environment of detention basins. Tolerant of less than optimum growing conditions. A "Low Pro Beater Wetland". Obviously, dormant seed for maximum diversity.

Species	lb/ac
Agrostis alba (A. gigantea) Red Top Grass	0.500
Agrostis alba palustris Bent Grass	1.500
Alisma subcordatum Common Water Plantain	0.375
Asclepias incarnata Swamp Milkweed	0.188
Aster novae-angliae (Symphyotrichum n.) New England Aster	0.125
Aster simplex (Symphyotrichum lanceolatum) Panicked Aster	0.031
Bidens cernua Nodding Bur Marigold	0.313
Bidens frondosa Common Beggar's Tick	0.125
Boehmeria cylindrica False Nettle	0.015
Boltonia asteroides False Aster	0.063
Carex bebbii Bebb's Sedge	0.500
Carex granularis Meadow Sedge	0.125
Carex lupuliformis Knobbed Hop Sedge	0.063
Carex scoparia Pointed Broom Sedge	0.313
Carex stipata Awl-fruited Sedge	0.063
Carex vulpinoidea Fox Sedge	0.500
Cyperus Species Flat Sedge Species	0.063
Echinochloa crusgalli Barnyard Grass	2.500
Eleocharis Species Spike Rush Species	0.015
Elymus canadensis Nodding Wild Rye	1.000
Elymus virginicus Virginia Wild Rye	2.000
Glyceria striata Fowl Manna Grass	0.125
Helenium autumnale Sneezeweed	0.094
Juncus effusus Soft Rush	0.015
Juncus tenuis Path Rush	0.015
Juncus torreyi Torrey's Rush	0.015
Leersia oryzoides Rice Cut Grass	0.188
Mimulus ringens Monkey Flower	0.031
Panicum dichotomiflorum Knee Grass	0.250
Penthorum sedoides Ditch Stonecrop	0.006
Poa palustris Marsh Blue Grass	0.250
Sagittaria latifolia Duck Potato	0.063
Scirpus atrovirens Dark Green Rush	0.750
Scirpus pendulus Red Bulrush	0.125
Scirpus pungens (Schoenoplectus p.) Chairmakers Rush	0.625
Teucrium canadensis Germander	0.031
Verbena hastata Blue Vervain	1.000

An urban floodplain, by any other name, is a detention basin, with only two banks, not four.

v111909

total 13.958  
permanent matrix 11.958

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

**Native Diverse Detention Mix**

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

**Illinois Permit #3669**

**PLS where applicable**

A diverse mix of wetland grasses, sedges, rushes, and forbs for the harsh environment of detention basins. Tolerant of less than optimum growing conditions. "In diversity is strength and steadfastness" More diversity if dormant seeded.

Species	lb/ac
Agrostis alba (A. gigantea) Red Top Grass	0.500
Agrostis alba palustris Bent Grass	2.000
Alisma subcordatum Common Water Plantain	0.375
Amorpha fruticosa Indigo Bush	0.031
Asclepias incarnata Swamp Milkweed	0.188
Aster novae-angliae (Symphyotrichum n.) New England Aster	0.125
Aster simplex (Symphyotrichum lanceolatum) Panicked Aster	0.063
Bidens cernua Nodding Bur Marigold	0.313
Bidens frondosa Common Beggar's Tick	0.125
Boehmeria cylindrica False Nettle	0.015
Boltonia asteroides False Aster	0.125
Carex bebbii Bebb's Sedge	0.500
Carex granularis Meadow Sedge	0.125
Carex lupuliformis Knobbed Hop Sedge	0.063
Carex scoparia Pointed Broom Sedge	0.500
Carex stipata Awl-fruited Sedge	0.063
Carex vulpinoidea Fox Sedge	1.000
Cephalanthus occidentalis Button Bush	0.150
Clematis virginiana Virgin's Bower	0.015
Cyperus Species Flat/Nut Sedge Species	0.031
Echinochloa crusgalli Barnyard Grass	2.500
Eleocharis Species Spike Rush Species	0.125
Elymus canadensis Nodding Wild Rye	2.000
Elymus virginicus Virginia Wild Rye	2.000
Eupatorium maculatum (Eutrochium m.) Spotted Joe Pye Weed	0.063
Glyceria striata Fowl Manna Grass	0.125
Helenium autumnale Sneezeweed	0.063
Helianthus grosseserratus Saw Tooth Sunflower	0.015
Juncus effusus Soft Rush	0.015
Juncus tenuis Path Rush	0.015

Juncus torreyi Torrey's Rush	0.015
Leersia oryzoides Rice Cut Grass	0.188
Mimulus ringens Monkey Flower	0.250
Panicum dichotomiflorum Knee Grass	0.125
Panicum virgatum Prairie Switch Grass	0.006
Penthorum sedoides Ditch Stonecrop	0.250
Poa palustris Marsh Blue Grass	0.063
Rudbeckia laciniata Coneflower from Hell	0.063
Rumex altissimus Pale Dock	0.063
Sagittaria latifolia Duck Potato	0.625
Scirpus atrovirens Dark Green Rush	0.125
Scirpus fluviatilis (Bulboschoenus f.) River Bulrush	0.125
Scirpus pendulus Red Bulrush	0.063
Scirpus pungens (Schoenoplectus p.) Chairmakers Rush	0.031
Scirpus validus (Schoenoplectus tabernaemontani) Great Bulrush	0.063
Silphium perfoliatum Cup Plant	0.063
Verbena hastata Blue Vervain	0.500
Vernonia fasciculata Common Ironweed	0.063
v120709	
total	15.906
permanent matrix	13.406

Note! Shoreline or emergent seed mixes which are installed in pumped down basins that return to normal waterlevel, never to draw down again are a waste of seed and money. They stand a snowball's chance in hell of any, let alone, long term success.

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

**Salt Tolerant Wetland / Detention Mix**

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

**Illinois Permit # 3669**

**PLS where applicable**

Species	lb/ac
Alisma subcordatum Common Water Plantain	0.250
Aster simplex (Symphyotrichum lanceolatum) Panicked Aster	0.250
Bidens cernua Nodding Bur Marigold	0.250
Carex nebraskensis Nebraska Sedge	0.125
Carex praegracilis Expressway Sedge	0.063
Carex stipata Awl-fruited Sedge	0.063
Carex vulpinoidea Fox Sedge	1.000
Cephalanthus occidentalis Button Bush	0.063
Distichlis stricta Salt Grass	1.000
Eleocharis palustris Creeping Spike Rush	0.063
Juncus balticus littoralis Lake Shore Rush	0.188
Juncus effusus Common Rush	0.063
Juncus nodosus Joint Rush	0.031
Polygonum pensylvanicum Giant Smartweed	0.031

Scirpus acutus (Schoenoplectus a.) Hard Stem Bulrush	0.500
Scirpus fluviatilis (Bulboschoenus f.) River Bulrush	0.125
Scirpus pungens (Schoenoplectus p.) Chairmakers Rush	0.125
Scirpus paludosus (Bulboschoenus maritimus) Alkali Bulrush	0.250
Scirpus validus (Schoenoplectus tabernaemontani) Great Bulrush	0.500
Spartina pectinata Cord Grass	1.000
Verbena hastata Blue Vervain	1.000
Agrostis alba (A. gigantea) Red Top Grass	3.000
Avena sativa Seed Oats	32.000
Lolium multiflorum Italian Rye	5.000
Agrostis alba palustris Creeping Bent	2.000
Puccinellia distans Alkali Grass	5.000
v111909	
total	53.94
permanent matrix	5.940

A mix of salt tolerant natives, western US adventives (and nurse crops) that are known to occur on alkaline roadside wetlands in the Chicago Region.

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

**Low Profile Salt Tolerant Wetland / Detention Mix**

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

**Illinois Permit # 3669**

**PLS where applicable**

Species	lb/ac
Alisma subcordatum Common Water Plantain	0.250
Aster simplex (Symphyotrichum lanceolatum) Panicked Aster	0.250
Bidens cernua Nodding Bur Marigold	0.250
Carex nebraskensis Nebraska Sedge	0.063
Carex praegracilis Expressway Sedge	0.063
Carex stipata Awl-fruited Sedge	0.063
Carex vulpinoidea Fox Sedge	1.000
Distichlis stricta Salt Grass	1.000
Eleocharis palustris Creeping Spike Rush	0.063
Juncus balticus littoralis Lake Shore Rush	0.188
Juncus effusus Common Rush	0.031
Juncus nodosus Joint Rush	0.031
Scirpus paludosus (Bulboschoenus maritimus) Alkali Bulrush	0.375
Scirpus pungens (Schoenoplectus p.) Chairmakers Rush	0.250
Verbena hastata Blue Vervain	0.500
Agrostis alba (A. gigantea) Red Top Grass	3.000
Avena sativa Seed Oats	32.000
Lolium multiflorum Italian Rye	5.000
Agrostis alba palustris Creeping Bent	2.000
Puccinellia distans Alkali Grass	5.000

