

Planting 56 – Sand Farm –Internal Fields – Fall 2002

Approximately 26 acres were planted in November 2002 using forced air spreader with Potash as carrier. Seeds were then rolled in with a cultipacker. About 30 pounds per acre of bulk weight (15 lbs. forb and 15 lbs. little bluestem and some other grasses). The field had been in corn-only for many years. The fields are all surrounded by trees and brush which will shade portions and cause weedy encroachment problems.

(See more below for additional work done on this planting.)

Species list is DRY/MESIC and those marked with an “x” in 2002 column. Also planted were little bluestem and some big bluestem, and Indian grass and Canada rye.

Dry Mesic		2001	2002
Nodding Wild Onion	Allium cernuum	x	5.0 oz
Leadplant	Amorpha canescens	x	3.0 lb
Little blue stem	Andropogon (Schizachyrium)	x	
Thimbleweed	Anemone cylindrica	x	3.0 lb
Pasque Flowers	Anemone patens		0.3 oz
Pussy Toes	Antennaria plantaginifolia		8.0 oz
Stiff Sandwort	Arenaria stricta		5.0 oz
Beach Wormwood	Artemisia caudata (campestris)		3.0 lb
White Sage	Artemisia ludouiciiana gnaphalode		5.0 oz
Whorled milkweed	Asclepias verticillata	x	0.9 oz
Azure Aster	Aster asureas		5.7 oz
Sky Blue Aster	Aster azureus (oolentangiensis)	x	
Heath Aster	Aster ericoides	x	9.0 oz
Smooth Blue Aster	Aster laevis	x	
Stiff Aster	Aster linarifolius	x	
Aromatic Aster	Aster oblongifolius	x	3.8 oz
Silky aster	Aster sericeus	x	
Canada Milk Vetch	Astragalus canadensis		0.1 oz
Cream Wild Indigo	Baptisia leucophaea	x	
White Wild Indigo	Baptista leucantha		14 lb
Side Oats Gramma	Bouteloua curtipendula	x	4.0 lb
Mustache Grass	Boutoloun hirsuta		0.9 oz
Pale Indian Plantain	Cacalia atriplicifolia	x	
Sand Bracted Sedge	Carex muhlenbergii (enervis)	x	
Common Oak Sedge	Carex pennsylvanica	x	
Downy Yellow Painted Cup	Castilleja sessiflora		x
New Jersey tea	Ceanothus americanus	x	6.0 lb
Sand Coreopsis	Coreopsis lanceolata		3.0 lb
Prairie coreopsis	Coreopsis palmata	x	3.0 lb
Tall coreopsis	Coreopsis tripteris	x	12 oz
Cyperus	Cyperus filicumis		6.4 oz
Round Headed Sedge	Cyperus filicumis		x
Poverty Oats	Danthonia spictata	x	15 oz
Showy tick trefoil	Desmodium canadense	x	
Tick Trefoil	Desmodium illinoense		x

Illinois tick trefoil	Desmodium illnoense	x	
Shooting Star	Dodecatheon meadia	x	2.0 lb
Pale Purple Coneflower	Echinacea pallida	x	92 lb
Rattlesnake master	Eryngium yuccifolium		23 lb
Common Boneset	Eupatorium perfoliatum		4.0 oz
Flowering Spurge	Euphorbia corollata	x	2.0 lb
Bottle Gentain	Gentiana andrewsii		1.6 oz
Prairie gentian	Gentiana purberulenta	x	
Prairie Smoke	Genum triflorum		x
Sweet everlasting	Gnaphaleum obtusifolium		9.0 oz
Rock Rose	Helianthemum bicknellii		0.3 oz
Western sunflower	Helianthus occidentalis	x	8.0 lb
Prairie Sunflower	Helianthus rigidus		5.6 oz
False sunflower	Heliopsis helianthoides	x	2.0 lb
Hairy Hawkweed	Hieracium gronovii	x	x
False boneset	Kuhnia eupatoroides	x	1.0 lb
Dwarf Blazing Star	Latris cylindraceae	x	x
Round Headed Bush Clover	Lespedeza capitata	x	3.0 lb
Rough Blazing Star	Liatris aspera	x	8.0 lb
Grooved yellow flax	Linum sulcatum		x
Hoary Puccoon	Lithosperrmum canescens		0.9 oz
Fringed Puccoon	Lithosperrmum incisum		0.9 oz
Wild Bergamot	Monarda fisculosa		6.0 lb
Horse mint	Monarda punctata villicualis	x	7.0 oz
Sand evening primrose	Oenathera cleandii		x
Marbleseed	Onosmodium hispidissimum		x
Prickly pear cactus	Opuntia macrohiza		x
Violet Wood-sorel	Oxalis videcea		8.0 oz
Scribers Panic Grass	Panicum obligosanthos scribneria		15 lb
White Haired Panic Grass	Panicum villosissmum		15 lb
Wild quinine	Parthenium integrifolium	x	7.0 lb
Foxglove Beard Tongue	Penstemon digitalis	x	11 lb
Large- flowered Beard Tongue	Penstemon grandiflorous		1.0 oz
Hairy Beard Tongue	Penstemon hirsutus	x	x
Pale Beard Tongue	Penstemon pallidus		9.0 oz
Purple prairie clover	Petalostemum (Dalea) purpureum	x	13 lb
White prairie clover	Petalostemum candidum	x	4.0 lb
Purple milkwort	Polygala polygama obtusata	x	
Field Milkwort	Polygala sanguinea		1.0 oz
Prairie Cinquefoil	Potentilla arguta	x	5.0 lb
Mountain Mint	Pycnanthemum virginianum	x	1.0 lb
Yellow coneflower	Ratibida pinnata	x	8.0 lb
Pasture rose	Rosa carolina	x	4.0 lb
Black-eyed susan	Rudbeckia hirta	x	3.0 lb
Sweet black-eyed susan	Rudbeckia subtomentosa	x	2.0 lb
Rosin weed	Silphium integrifolium	x	3.0 lb
Compass Plant	Silphium laciniatum	x	12 lbs
Cup Plant	Silphium perfoliatum		7.0 lb

Prairie Dock	Silphium terebinthaceum	x	3.0 oz
Upright Carrion Flower	Smilax ecirrata		4.0 oz
Missouri Goldenrod	Solidago missouriensis fasciculata	x	
Showy Goldenrod	Solidago speciosa	x	36 lb
Venus Looking Glass	Specularia perfoliata		x
Nodding Ladies tresses	Spiranthes cernua		x
Prairie dropseed	Sporobolus heterolepis	x	13 oz
Porcuoine grass	Stipa spartea		1.0 lb
Goat's Rue	Tephrosia virginiana	x	2.0 oz
Blue Vervain	Verbena hastata		2.0 oz
Hoary vervain	Verbena stricta		7.6 oz
Culver's Root	Veronicastrum virginicum	x	0.6 oz
Kittentails	Wulfenia ballii		4.5 oz
Golden Alexander	Zizia aurea	x	11 oz
Alum Root		x	4.5 oz
Bee Balm		x	
Bicknel Sedge		x	1.0 oz
Blue-eyed grass			2.0 oz
Canada Anemone			1.0 oz
Canada wild rye			303 lb
Common grass leaved goldenrod		x	
Flax Leaved Aster		x	
Frostweed			x
Gayfeather			7.0 oz
Golden Aster		x	x
Ironweed			1.0 oz
June Grass		x	2.0 lb
Juncus (Rushes)			2.0 lb
Lupine		x	x
Milkwort		x	
Old field Goldenrod		x	4.0 lb
Panicum oligosanthes		x	
Spiderwort		x	6.0 lb
Three Awn Grass		x	0.9 oz
White haired panic grass		x	0.5 oz
Wild coffee		x	
Wormwood			0.3 oz

In January of 2004 much of the larger hardwoods were removed by a logging company. This will allow more sunlight to the plantings. Still to be removed however is the large trees between two of the west plantings or the more northern of the two will continue to have shade on its south edge.

Much upkeep will be necessary to ensure that when some of the tree stumps re-sprout that they are killed again.

In 3rd week of February 2004 overseed mixes were planted using the new Vicon spreader, which attaches to the tractor's PTO. In the driest areas (20 acres) a dry mix (1.8 lbs./acre) and little bluestem (1 lb./acre) was

planted and in the moister ground (6 acres) a dry/mesic mix (2 lbs./acre) and little bluestem (2 lbs./acre) was planted. This was done on snow which then melted in the next week.

Seed mix lists to follow:

Gravel or Sand (Dry)		2001	2002	2003
Leadplant	<i>Amorpha canescens</i>	x		3.5 lb
Little blue stem	<i>Andropogon (Schizachyrium)</i>	x		
Thimbleweed	<i>Anemone cylindrica</i>	x		12 oz
Pussy Toes	<i>Antennaria plantaginifolia</i>			1.8 oz
Stiff Sandwort	<i>Arenaria stricta</i>			3.0 oz
Three Awn Grass	<i>Aristida dichotoma</i>	x		
Chokeberry	<i>Aronia prunifolia</i>	x		
Beach Wormwood	<i>Artemisia caudata</i>	x		
Whorled milkweed	<i>Asclepias verticillata</i>	x		5.5 oz
Sky Blue Aster	<i>Aster azureus (oolentangiensis)</i>	x		
Heath Aster	<i>Aster ericoides</i>	x		
Smooth Blue Aster	<i>Aster laevis</i>	x		
Flax Leaved Aster	<i>Aster linariifolius</i>	x		
Stiff Aster	<i>Aster linarilifolius</i>	x		
Aromatic Aster	<i>Aster oblongifolius</i>	x		
Silky aster	<i>Aster sericeus</i>	x		
Aster mix	<i>Aster sp.</i>			4.8 oz
Canada Milk Vetch	<i>Astragalus canadensis</i>			1.1 oz
White Wild Indigo	<i>Baptisia leucantha</i>			1.8 lb
Cream Indigo	<i>Baptisia leucophaea</i>	x		0.1 oz
Side Oats	<i>Bouteloua curtipendula</i>	x		4.3 lb
Copper-shouldered oval Sedge	<i>Carex bicknellii</i>			12 oz
Bicknel Sedge	<i>Carex bicknellii</i>	x		
Sand Bracted Sedge	<i>Carex muhlenbergii (enervis)</i>	x		12 oz
Common Oak Sedge	<i>Carex pennsylvanica</i>	x		
Carex sp.	<i>Carex sp.</i>			0.9 oz
Golden aster	<i>Chrysopsis camporum</i>	x		7 oz
False Toadflax	<i>Comandra umbellata</i>			1.4 oz
Prairie coreopsis	<i>Coreopsis palmata</i>	x		1.0 lb
Slender Sand Sedge	<i>Cyperus filiculmis</i>			1.0 lb
Poverty Oats	<i>Danthonia spicata</i>	x		1.0 lb
Illinois tick trefoil	<i>Desmodium illnoense</i>	x		9.5 oz
Shooting Star	<i>Dodecatheon meadia</i>	x		8.0 oz
Pale Purple Coneflower	<i>Echinacea pallida</i>	x		1.8 lb
Flowering Spurge	<i>Euphorbia corollata</i>	x		
Prairie gentian	<i>Gentiana purberulenta</i>	x		
Frostweed	<i>Helianthemum canadense</i>	x		
Stiff Haired Sunflower	<i>Helianthus hirsuta</i>			6.0 oz
Western sunflower	<i>Helianthus occidentalis</i>	x		1.2 lb
Alum Root	<i>Heuchera richardsonii grayana</i>	x		
Hairy hawkweed	<i>Hieracium gronovii</i>	x		3.47 oz
Inland Rush	<i>Juncus interior</i>			8.8 oz
June Grass	<i>Koeleria cristata</i>	x		15.6 oz

Dwarf Dandelion	Krigia virginica			1.4 oz
False Boneset	Kuhnia Eupatoides			2.4 lb
Slender-leaved Pinweed	Lechea tenuifolia			0.9 oz
Round Headed Bush Clover	Lespedeza capitata	x		1.15 lb
Rough Blazing Star	Liatris aspera	x		1.55 lb
Dwarf Blazingstar	Liatris cylidracea			7.25 oz
Cylindrical Blazing Star (Dwarf)	Liatris cylindracea	x		
Grooved Yellow Flax	Linum sulcatum			1.6 oz
Fringed Puccoon	Lithospermum incisum			3.4 oz
Lupine	Lupinus perennis	x		
Horse mint	Monarda punctata villicualis	x		12.8 oz
Violet Wood Sorrel	Oxalis violacea			1.2 oz
Scribner's Panic Grass	Panicum oligosanthos scribneria	x		
Panic grass	Panicum sp.			1..75 oz
White haired panic grass	Panicum villosissimum	x		
Wild quinine	Parthenium integrifolium	x		2.67 lb
Hairy lens grass	Paspalum ciliatifolium muhlenben	x		
Hairy Beard Tongue	Penstemon hirsutus	x		
White prairie clover	Petalostemum (Dalea) candidum	x		
Purple prairie clover	Petalostemum (Dalea) purpureum	x		4.9 lb
Purple milkwort	Polygala polygama obtusata	x		
Field Milkwort	Polygala sanguinea			1.8 oz
Milkwort	Polygala sp.	x		
Prairie Cinquefoil	Potentilla arguta	x		2.4 lb
Yellow Coneflower	Ratibida pinnata			0.4 oz
Sunshine Rose	Rosa arkansana var. sulfata			3.2 oz
Pasture rose	Rosa carolina	x		1.95 lb
Black-eyed Susan	Rudbeckia hirta	x		
Sweet black-eyed susan	Rudbeckia subtomentosa			4.0 oz
Rosinweed	Silphium integrifolium			6.4 oz
Prairie Dock	Silphium terebinthaceum			1.0 oz
Common Blue-eyed Grass	Sisyrinchium albidum			5.6 oz
Common grass leaved goldenrod	Solidago gymnospermoides	x		1.9 lb
Missouri Goldenrod	Solidago missouriensis fasciculata	x		11.2 oz
Old field Goldenrod	Solidago nemoralis	x		11.2 oz
Showy Goldenrod	Solidago speciosa	x		4.8 lb
Northern Dropseed	Sporobolus	x		7.2 oz
Sand Dropseed	Sporobolus cryptandrus			10.4 oz
Porcupine Grass	Stipa spartea			6.4 oz
Sand Fameflower	Talinum rugospermum			1.0 oz
Goat's Rue	Tephrosia virginiana	x		9.6 oz
Spiderwort	Tradescantia ohiensis	x		
Wild coffee	Triosteum aurantiacum	x		
Hoary Vervain	Verbena stricta			10.8 oz
Kittentail	Wulfenia bullii	x		
Golden Alexander	Zizia aurea			2.6 oz

89 Plants

Dry/Mesic mix	2001	2002	2003
Allium cernuum	x	5.0 oz	2.8 oz
Amorpha canescens	x	3.0 lb	3.5 lb
Amorpha fruticosa			8.4 oz
Andropogon (Schizachyrium)	x		
Anemone canadensis		1.0 oz	
Anemone cylindrica	x	3.0 lb	12 oz
Anemone patens		0.3 oz	
Antennaria plantaginifolia		8.0 oz	0.5 oz
Arenaria stricta		5.0 oz	0.2 oz
Aristida dichotoma	x	0.9 oz	
Artemisia caudata		0.3 oz	
Artemisia caudata (campestris)		3.0 lb	
Artemisia ludouiciana gnaphalode		5.0 oz	
Asclepias verticillata	x	0.9 oz	5.5 oz
Aster asureas		5.7 oz	
Aster azureus (oolentangiensis)	x		
Aster ericoides	x	9.0 oz	
Aster laevis	x		
Aster linariifolius	x		
Aster linariifolius	x		
Aster oblongifolius	x	3.8 oz	
Aster sericeus	x		
Aster sp.			1.2 oz
Astragalus canadensis		0.1 oz	8.8 oz
Baptisia leucophaea	x		
Baptista leucantha		14 lb	7.2 lb
Bouteloua curtipendula	x	4.0 lb	5.9 lb
Boutoloun hirsuta		0.9 oz	
Cacalia atriplicifolia	x		
Carex bicknellii			12 oz
Carex bicknellii	x	1.0 oz	
Carex muhlenbergii (enervis)	x		12 oz
Carex pennsylvanica	x		
Carex sp.			0.1 oz
Castilleja sessiflora		x	
Ceanothus americanus	x	6.0 lb	
Chrysopsis camporum	x	x	2.4 oz
Coreopsis lanceolata		3.0 lb	
Coreopsis palmata	x	3.0 lb	3.0 oz
Coreopsis tripteris	x	12 oz	4.0 oz
Cyperus filicumis		6.4 oz	
Cyperus filicumis		x	4.0 oz
Danthonia spictata	x	15 oz	

Desmodium canadense	x		
Desmodium illinoense		x	9.5 oz
Desmodium illnoense	x		
Dodecatheon meadia	x	2.0 lb	8.0 oz
Echinacea pallida	x	92 lb	15 lb
Elymus canadensis		303 lb	39.6 lb
Eryngium yuccifolium		23 lb	15.4 oz
Eupatorium perfoliatum		4.0 oz	2.4 oz
Euphorbia corollata	x	2.0 lb	1.75 lb
Gentiana andrewsii		1.6 oz	
Gentiana purberulenta	x		
Genum triflorum		x	
Gnaphaleum obtusifolium		9.0 oz	
Helianthemum bicknellii		0.3 oz	
Helianthemum canadense		x	
Helianthus hirsuta			11 oz
Helianthus occidentalis	x	8.0 lb	12.8 oz
Helianthus rigidus		5.6 oz	
Heliopsis helianthoides	x	2.0 lb	2.25 lb
Heuchera richardsonii grayana	x	4.5 oz	
Hieracium gronovii	x	x	2.73 oz
Juncus sp.		2.0 lb	2.2 lb
Koeleria cristata	x	2.0 lb	5.2 lb
Kuhnia eupatoroides	x	1.0 lb	9.6 lb
Lechea tenuifolia			0.03 oz
Lespedeza capitata	x	3.0 lb	11.65 lb
Liatris aspera	x	8.0 lb	3.75 lb
Liatris cylindraceae	x	x	0.4 oz
Liatris pycnostachya		7.0 oz	5.6 oz
Linum sulcatum		x	0.2 oz
Lithosperrmum canescens		0.9 oz	
Lithosperrmum incisum		0.9 oz	
Lupinus perennis	x	x	
Monarda fisculosa		6.0 lb	3.25 lb
Monarda fistulosa	x		
Monarda punctata villicualis	x	7.0 oz	3.2 oz
Oenathera biennis canescens			12 oz
Oenathera cleandii		x	
Onosmodium hispidissimum		x	
Opuntia macrohiza		x	
Oxalis videcea		8.0 oz	
Panicum obligosanthes scribneria		15 lb	
Panicum oligosanthes scribneria	x		
Panicum sp.			1.75 oz
Panicum villosissimum	x	0.5 oz	
Panicum villosissmum		15 lb	
Parthenium integrifolium	x	7.0 lb	2.67 lb
Penstemon digitalis	x	11 lb	5.25 lb

Penstemon grandiflorous		1.0 oz	
Penstemon hirsutus	x	x	
Penstemon pallidus		9.0 oz	
Petalostemum (Dalea) purpureum	x	13 lb	4.9 lb
Petalostemum candidum	x	4.0 lb	1.85 lb
Physocarpus opulifolius			10.8 oz
Polygala polygama obtusata	x		1.0 oz
Polygala sanguinea		1.0 oz	0.2 oz
Polygala sp.	x		
Potentilla arguta	x	5.0 lb	5.42 lb
Pycnanthemum tenuifolium			2.4 oz
Pycnanthemum virginianum	x	1.0 lb	
Ratibida pinnata	x	8.0 lb	2.1 lb
Rosa arkansana var. sulfata			0.8 oz
Rosa carolina	x	4.0 lb	1.3 lb
Rudbeckia hirta	x	3.0 lb	11.45 lb
Rudbeckia subtomentosa	x	2.0 lb	4.75 lb
Silphium integrifolium	x	3.0 lb	1.42 lb
Silphium laciniatum	x	12 lbs	14.4 oz
Silphium perfoliatum		7.0 lb	0.4 oz
Silphium terebinthaceum	x	3.0 oz	3.0 oz
Sisyrinchium albidum		2.0 oz	2.8 oz
Smilax ecirrata		4.0 oz	
Solidago gymnospermoides	x		1.4 lb
Solidago missouriensis fasciculata	x		1.5 lb
Solidago nemoralis			1.5 lb
Solidago nemoralis	x	4.0 lb	
Solidago speciosa	x	36 lb	5.2 lb
Specularia perfoliata		x	
Spiranthes cernua		x	
Sporobolus cryptandrus			1.25 lb
Sporobolus heterolepis	x	13 oz	
Stipa spartea		1.0 lb	9.6 oz
Tephrosia virginiana	x	2.0 oz	2.4 lb
Tradescantia ohiensis	x	6.0 lb	5.95 lb
Triosteum aurantiacum	x		1.5 oz
Verbena hastata		2.0 oz	
Verbena stricta		7.6 oz	2.1 lb
Veronica fasciculata		1.0 oz	
Veronicastrum virginicum	x	0.6 oz	
Wulfenia ballii		4.5 oz	
Zizia aurea	x	11 oz	1.3 lb

70 Plants 101 Plants