

# Prairie Potholes Planting Inventory #8

## July 2, 2005



*Planting No. 8, Ridge Planting Size:~15 acres  
Collected by: Bill Kleiman, Chris Hauser*

<i>Occurrence</i>	<i>Scientific Name</i>	<i>Common Name</i>
Rare	<i>Abutilon theophrasti</i>	Velvetleaf
Rare	<i>Oenothera biennis canescens</i>	Common Evening Primrose
Rare	<i>Lactuca canadensis</i>	Wild Lettuce
Rare	<i>Helianthus occidentalis</i>	Western Sunflower; Naked S.
Rare	<i>Sporobolus heterolepis</i>	Prairie Dropseed
Rare	<i>Polygala polygama obtusata</i>	Purple Milkwort
Rare	<i>Panicum oligosanthos scribneria</i>	Scribner's Panic Grass
Rare	<i>Solidago missouriensis fasciculata</i>	Missouri Goldenrod
Rare	<i>Sporobolus asper</i>	Rough Dropseed
Rare	<i>Equisetum hyemale affine</i>	Tall Scouring Rush
Rare	<i>Ambrosia artemisiifolia elatior</i>	Common Ragweed
Rare	<i>Liatris pycnostachya</i>	Tall Gayfeather; Prairie Blazing Star
Rare	<i>Carex bicknellii</i>	Copper-shouldered oval Sedge
Rare	<i>Stipa spartea</i>	Porcupine Grass
Rare	<i>Medicago sativa</i>	Alfalfa
Rare	<i>Trifolium repens</i>	White Clover
Rare	<i>Chenopodium album (missouriense)</i>	White Goosefoot; Lamb's quarters
Rare	<i>Euphorbia corollata</i>	Flowering Spurge
Rare	<i>Pastinaca sativa</i>	Wild Parsnip
Rare	<i>Penstemon pallidus</i>	Pale Beard Tongue
Rare	<i>Amorpha canescens</i>	Leadplant
Rare	<i>Silphium terebinthaceum</i>	Prairie Dock
Rare	<i>Liatris aspera</i>	Rough Blazing-star (Rough Gayfeather)
Rare	<i>Silphium integrifolium</i>	Rosinweed

\* We were learning Access on this one. Date sorted - funny by occurrence.

0	<i>Eryngium yuccifolium</i>	Rattlesnake master
0	<i>Verbena stricta</i>	hoary verben
0	<i>Melilotus alba</i>	white sweetclover

Occurrence	Scientific Name	Common Name
Rare	<i>Solidago speciosa</i>	Showy Goldenrod
Rare	<i>Dianthus armeria</i>	Deptford Pink
Rare	<i>Chrysopsis camporum (Heterotheca)</i>	Golden Prairie Aster
Rare	<i>Penstemon grandiflorus **</i>	Large-flowered Beard tongue
Rare	<i>Anemone cylindrica</i>	Thimbleweed
Occasional	<i>Trifolium pratense</i>	Red Clover
Occasional	<i>Aster pilosus</i>	Hairy Aster
Occasional	<i>Desmodium illinoense</i>	Ill. Tick Trefoil
Occasional	<i>Baptisia leucantha</i>	White Wild Indigo
Occasional	<i>Asclepias syriaca</i>	Common Milkweed
Occasional	<i>Petalostemum (Dalea) candidum</i>	White Prairie Clover
Occasional	<i>Cirsium discolor</i>	Pasture Thistle
Occasional	<i>Senecio pauperculus</i>	Balsam Ragwort
Occasional	<i>Parthenium integrifolium</i>	Wild Quinine (Feverfew)
Occasional	<i>Monarda fistulosa</i>	Wild Bergamot
Occasional	<i>Daucus carota</i>	Queen Anne's Lace
Occasional	<i>Hypericum punctatum</i>	Spotted St. Johnswort
Occasional	<i>Eragrostis spectabilis</i>	Purple Love Grass
Dominant ?	<i>Melilotus alba</i>	White Sweet Clover
Dominant	<i>Andropogon (Schizachyrium) scoparium</i>	Little Bluestem
Dominant	<i>Echinacea pallida</i>	Pale Purple Coneflower
Common	<i>Ratibida pinnata</i>	Yellow Coneflower
Common	<i>Poa pratensis</i>	Kentucky Blue Grass
Common	<i>Silphium laciniatum</i>	Compass plant
Common	<i>Bromus inermis</i>	Smooth (Hungarian) Brome
Common	<i>Achillea millefolium</i>	Yarrow
Common	<i>Asclepias verticillata</i>	Whorled Milkweed
Common	<i>Lespedeza capitata --</i>	Round-headed Bush Clover
Common	<i>Andropogon gerardii</i>	Big Bluestem; Turkeyfoot
Common	<i>Erigeron strigosus</i>	Daisy Fleabane

	<i>Medicago lupulina</i>	black medic
C	<i>Solidago rigida</i>	stiff goldenrod
0	<i>Astragalus canadensis</i>	Canada milkvetch
	<i>Leptidium sp.</i>	

<i>Occurrence</i>	<i>Scientific Name</i>	<i>Common Name</i>
Common	<i>Erigeron annuus</i>	Annual Fleabane
Abundant	<i>Rudbeckia hirta</i>	Black-eyed Susan
Abundant	<i>Sorghastrum nutans</i>	Indian Grass
?	<i>Medicago lupulina</i>	Black Medic
?	<i>Eryngium yuccifolium</i>	Rattlesnake Master
?	<i>Verbena stricta</i>	Hoary Vervain
	<i>Diodia teres</i>	Buttonweed
	<i>Dennstaedia punctilobula</i> *	Hay-scented fern
	<i>Digitaria sanguinalis</i>	Hairy Crab Grass
	<i>Desmodium glabellum</i> (dillenii)	Smooth Tick Trefoil
	<i>Drosera intermedia</i> *	Narrow-leaved Sundew
	<i>Desmodium cuspidatum longifolium</i>	Hairy Bracted Tick Trefoil
	<i>Digitaria filiformis</i>	Slender Crab Grass
	<i>Diervilla lonicera</i>	Dwarf Honeysuckle
	<i>Digitaria ischaemum</i>	Hairy Crab Grass
	<i>Dicentra cucullaria</i>	Dutchman's Breeches
	<i>Dicentra canadensis</i>	Squirrel Corn
	<i>Diarrhena americana</i>	Beak Grass
	<i>Desmodium canadense</i>	Showy Tick Trefoil
	<i>Desmodium cuspidatum</i>	Bracted Tick Trefoil
	<i>Descuriania pinnata brachycarpa</i>	Tansy Mustard
	<i>Descuriania sophia</i>	Flixweed
	<i>Desmodium canescens</i>	Hoary Tick Trefoil
	<i>Desmodium glutinosum</i>	Pointed Tick Trefoil
	<i>Desmodium sessilifolium</i>	Sessile-leaved Tick Trefoil
	<i>Desmodium paniculatum</i>	Panicled Tick Trefoil
	<i>Desmodium nudiflorum</i>	Bare-stemmed Tick Trefoil
	<i>Desmanthus illinoense</i>	Ill. Bundleflower (Sensitive Plant)
	<i>Dentaria laciniata</i>	Toothwort
	<i>Eleocharis acicularis</i>	Needle Spike Rush

**From:** [Chris Hauser](#)  
**To:** [Bill Kleiman](#)  
**Subject:** Re: over seed prairie potholes uplands.  
**Date:** Wednesday, March 19, 2014 1:15:37 AM

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Hi Bill:

Here's what I could reconstruct from my records, and resurrect from my memory:

**Wet-Mesic Seeding:** In late fall 2004(?), Jan Grainger and I hand raked some seed into a half-acre of low-diversity wet-mesic prairie grass. We seeded in *Liatris pycnostachya* (from Green River), *Veronicastrum virginicum* and *Zizia aurea* (from Nachusa). This was about 20 pounds of seed, hand raked into about 30-40 scattered patches, each patch about 5-10 feet in diameter. We did this in the area where that combine had harvested the tall grasses that fall, just south of the upland planting you are talking about. We focused on the interface where the tallgrass and the wool-grass met, which I considered an indicator of wet-mesic soil. We raked the dead grass out of the way, raked to scarified the soil, and put the seed down. I cant remember if this seed was mixed or kept separate, but we had great results and that area looks great now, with those 3 species coming in nicely.

**Dry-Mesic Seeding:** In fall 2005(?) I harrowed that upland area with a tractor and seeded with the pendulum broadcaster. I'm not sure, but I think harrowed first, then seeded, then harrowed again. I put in about 30-40 pounds of dry-mesic seed, heavy on the "purple prairie flowers" that Doug Taron said is preferred by the Regal Fritillary butterfly for nectaring: *Echinacea pallida*, *Liatris aspera*, *Verbena stricta*, *Dalea purpurea*, etc. Also, some additional upland species like wild quinine, white baptisia, and rosinweed. Initially, I was disappointed that all the 4-6 inch rocks were "flicked" out of the ground with the harrow (and then were in the way when we mowed that area in the summer to control white sweet clover), but in the spring, there was an amazing flush of *Rudbeckia hirta* (not in the seed mix) and *Echinacea pallida*. If I remember correctly, there were about 5-10 *Rudbeckia* seedlings per square foot, and about 1-2 *Echinacea* seedlings per square foot... it was very heavy recruitment. I don't remember this planting area in particular, but in other planting areas at Nachusa I get very good results from interseeding white baptisia, so I assume there was good recruitment of white baptisia. I remember that this heavy harrowing did not result in any additional weeds that summer: white sweet clover, red clover, or spotted st. john's wort.

**Wet-Mesic seeding:** Same year as previous (fall 2005?), I seeded a lot of wet-mesic species, in an area along the S edge of the Potholes unit, near Mike Adolf's "low oaks". I didn't harrow, since there was a lot more bare ground. I seeded about half a barrel, common mesic stuff like penstemon, with some others. I don't remember the mix well, and I don't have any records for that. I do remember the results were not very good there.

**Wetland Seeding:** I think it was fall/winter 2006, when you and I wandered through the Potholes wetland, hand seeding a barrel of wetland seed: tons of spotted joe-pye

weed, a lot of swamp milkweed, a lot of swamp goldenrod, some culvers root, sedges and bullrushes, some flat-top aster and some turtlehead. Not sure of the year, but it was after a fall burn that skipped across the Potholes wetland, I think the first time the Potholes wetland had burned completely. You and I focused the hand seeding into the few areas of bare soil/mud out there.

**Dry-Mesic Plugs:** In late early spring 2006, we had a workday with about 6-8 people and we planted 314 plants of *Coreopsis palmata* and 760 plants of *Sporobolus heterolepis*, all planted in one morning using a Stihl hand-held planting auger we borrowed from Byron FPD. We planted in a pattern that created natural-looking clumps of Dropseed, but with a regular/uniform spacing of *Coreopsis*. Some of the Dropseed seed and some of the *Coreopsis* seed had come from a very cool mesic railroad prairie NW of Amboy, and the rest had come from Nachusa, collected in summer/fall 2004. Larry Creekmur had grown them over 2005. These plants were dormant when we planted them, and I had spray painted them bright orange so we could see where they had been planted (and check their survival rate) during the first summer. We got a consistent spring and summer rains that year, and we had good survival until the fall. At the time, I had assumed that if the plant survived until the end of the first fall, they would live a long time, and it sounds like that has happened.

**Wet-Mesic Liatris Corms:** In late winter 2006, we planted 1200 dormant corms of *Liatris pynostachya*, grown from seed from the same mesic railroad prairie NW of Amboy. I was disappointed that none of them survived, because I wanted to introduce some non-Green River genetics to Nachusa. I used a 3-point mounted tree planter to slice through the soil to make it easier to plant the corms, then we planted the corms during a work day, and at the end of the workday I drove a tractor tire along the planting rows, which probably killed all the corms. I wish I had left half the rows un-compacted as a back up.

That was the main planting work. Also, I did a lot of other smaller (experimental) planting work, with all sorts of wetland species (vanilla grass, skunk cabbage, tussock sedge, dogwood, etc etc). Also, I did some some mesic/upland areas: I transplanted a few clumps of *Commandra*, *Coreopsis*, *Asclepias sullivantii*, and I tried/failed to grow Hill's thistle, prairie willow, and New Jersey tea. Also the wood betony seeding areas, with the conservative species that I added to the betony patches.

Chris.

On Saturday, March 15, 2014 8:43 AM, Bill Kleiman <bkleiman@TNC.ORG> wrote:

I am working on a GRN blog and want to put the attached photo and a short story about your overseeding this planting. I can't find anything about the weight and seed mix you put out there. I remember you scoured the planting with a harrow, seeded, and the harrowing proved to not seem to harm any plants there and likely allowed seed to contract soil much better.

And you grew plugs and put them in. Dropseed, *coreopsis palmate*.....? The plugs took and we can find them.

We don't know if the over seed took. Sometime when you are here in the summer we can do a list again of the planting.

If you have anything written already perhaps you can share and I will save it to the planting folder. If you don't have anything feel free to quickly type in some brief comments. This will be a few paragraphs on the blog.

I attach an inventory we did of the planting too.