

Dropseed Hills North Planting (#82) – November, 2008

Mary Vieregg

Site conditions:

Location: Section 10, T22N, R10E, 4th PM
Ogle County, Illinois

Roughly triangular 6.25 acre parcel east and south of Clear Creek; north of Dropseed Hills remnant unit (see attached map). There is a high tension power post located in the southern fourth of the planting.

Soils: As indicated on the attached soil map, there are three soil types represented in the planting.

- 1) Waukee loam (727B) – well drained soil found on the shoulders of outwash plains
- 2) Sawmill silty clay loam (3107A) – poorly drained, organic soil formed from alluvium parent material generally considered hydric and frequently flooded historically
- 3) Warsaw loam (290B) – well drained soil found on the shoulders and summits of outwash plains

Topographic features:

From the southeast corner, there is a gradually sloping downward to the northwest into the Sawmill soil area. Heading directly north from the same corner, the topography is generally level to the northeast corner of the planting. From the northeast corner, there is fairly level ground going to the southwest until about a third of the way when it drops noticeably into the Sawmill soil area. In other words, there is a shallow bowl in the west central portion of the planting where the noticeably different, black Sawmill soils occur.

Agricultural history:

Aerial photos and farmer anecdote suggest that the area has been used for row crops for many decades. A trencher was rented to search for drain tiles since the presence of the hydric Sawmill soil suggested that they might have been installed, but none were found.

Site preparation:

The last crop on the site was corn (2008). The yield in the wet Sawmill soil area was poor; in the wettest area no corn grew at all. After the corn was harvested, the field was burned and harrowed by seasonal techs. The autumn weather was generally wetter than normal, and there was some rutting from the harrowing tractor in the wetter areas.

Seed planting:

The seed was planted using the New Idea Drop Seeder. No foam marker was used. Multiple passes were made in each of three general areas to maximize diversity of species. Dry/mesic, mesic, and wet/mesic mixes were planted according to the soil type and relative topography of different parts of the field. No carrier was used with the seed. The only seeds that were hand planted were those of Stipa spartea, and they were distributed in the higher, drier parts of the field.

The weather the week after the planting was cold and wet. A hard frost followed soon thereafter.

All of the planting work was done by Mary and Jim Vieregg., volunteer stewards.

Seed list:

225 pounds of bulk seed of 176 species were planted on the site. The species list is attached. Species were distributed in three overlapping mixes according to what we think we know about their habitat preferences: dry/mesic, mesic, wet/mesic. Separate weights for each mix were not determined, but the quantities were generally proportional to the sizes of the areas seeded. The average per acre seed weight was 35 pounds. Over-seeding with a diverse seed mix is being planned during the 2009 growing season to discourage weed growth.

Map: See attached.

Follow up notes:

1) Late December, 2008 – An unusually heavy snow accumulation was followed by a thaw and simultaneous heavy rain which created flooding conditions in the planting area and the Clear Creek area generally. Sheet erosion of the black Sawmill soil was observed over the two track that borders the west side of the planting. It was not possible to determine the degree of seed loss. An overseeding with Elymus canadensis was considered, but the decision was made to forgo it and see what germinates in 2009. It's anticipated that over-seeding efforts may need to be extensive over large parts of the planting.

Dropseed Hills North Planting #81



Gobbler Ridge

Dropseed Hills

0 180 360 720 Feet



Map created by Cody Considine 2009



<u>Common name</u>	<u>Scientific name</u>	<u>Weight</u>
Wingstem	Actinomeris alternifolia	
Purple gerardia	Agalinis purpurea	
Tall agrimony	Agrimonia gryposepala	
Swamp agrimony	Agrimonia parviflora	
Nodding wild onion	Allium cernuum	
Leadplant	Amorpha canescens	
Indigo bush	Amorpha fruticosa	
Big bluestem	Andropogon gerardii	
Little bluestem	Andropogon scoparius	15 lbs
Meadow anemone	Anemone canadensis	
Thimbleweed	Anemone cylindrica	
Tall thimbleweed	Anemone virginiana	
Field cat's foot	Antennaria neglecta	
Pussytoes	Antennaria plantaginifolia	
Stiff sandwort	Arenaria stricta	
Arrow feather	Aristida purpurascens	
Beach wormwood	Artemisia caudata	
Tall green milkweed	Asclepias hirtella	
Swamp milkweed	Asclepias incarnata	
Sullivant's milkweed	Asclepias sullivantii	
Common milkweed	Asclepias syriaca	
Whorled milkweed	Asclepias verticillata	
Short green milkweed	Asclepias viridiflora	
Sky-blue aster	Aster azureus	
Heather aster	Aster ericoides	
Smooth blue aster	Aster laevis	
Flax-leaved aster	Aster linariifolius	
New England aster	Aster novae-angliae	
Aromatic aster	Aster oblongifolius	
Hairy aster	Aster pilosus	
White aster	Aster ptarmicoides	
Swamp aster	Aster puniceus	
Silky aster	Aster sericeus	
Flat-topped aster	Aster umbellatus	
Canadian milk vetch	Astragalus canadensis	
White wild indigo	Baptisia leucantha	
Cream wild indigo	Baptisia leucophaea	
Sideoats grama	Bouteloua curipendula	
Hairy grama	Bouteloua hirsuta	
Pale Indian plantain	Cacalia atriplicifolia	
Sweet-scented Indian plantain	Cacalia suaveolens	
Clustered poppy mallow	Callirhoe triangulata	
Copper-shouldered oval sedge	Carex bicknellii	
Porcupine sedge	Carex hystericina	
Sand bracted sedge	Carex mulenbergii	
Common oak sedge	Carex pennsylvanica	
Wild senna	Cassia hebecarpa	
Downy yellow painted cup	Castilleja sessiliflora	
New Jersey tea	Ceanothus americanus	
Golden prairie aster	Chrysopsis camporum	
False toadflax	Comandra umbellata	

<u>Common name</u>	<u>Scientific name</u>	<u>Weight</u>
Sand coreopsis	Coreopsis lanceolata	
Prairie coreopsis	Coreopsis palmata	
Tall coreopsis	Coreopsis tripteris	
Slender sand sedge	Cyperus filiculmis	
Poverty oat grass	Danthonia spicata	
Showy tick trefoil	Desmodium canadense	
Illinois tick trefoil	Desmodium illinoense	
Shooting star	Dodecatheon meadia	
Pale purple coneflower	Echinacea pallida	
Prairie wild rye	Elymus canadensis	
Virginia wild rye	Elymus virginicus	
Cinnamon willow herb	Epilobium coloratum	
Purple love grass	Eragrostis spectabilis	
Rattlesnake master	Eryngium yuccifolium	
Tall boneset	Eupatorium altissimum	
Spotted Joe pye weed	Eupatorium maculatum	
Boneset	Eupatorium perfoliatum	
Upland boneset	Eupatorium sessilifolium	
Flowering spurge	Euphorbia corollata	
Biennial gaura	Gaura biennis	
Bottle gentian	Gentiana andrewsii	
Fringed gentian	Gentiana crinita	
Cream gentian	Gentiana flavida	
Prairie gentian	Gentiana purberulenta	
Prairie smoke	Geum triflorum	
Sweet everlasting	Gnaphalium obtusifolium	
Sneezeweed	Helenium autumnale	
Common rockrose	Helianthemum canadense	
Pale sunflower	Helianthus decapetalus	
Western sunflower	Helianthus occidentalis	
Prairie sunflower	Helianthus rigidus	
False sunflower	Heliopsis helianthoides	
Alumroot	Heuchera richardsonii	
Hairy hawkweed	Hieracium gronovii	
Long-bearded hawkweed	Hieracium longipilum	
Long-leaved bluets	Houstonia longifolia	
Spotted St. Johnswort	Hypericum punctatum	
Great St. Johns wort	Hypericum pyramidatum	
Round-fruited St. Johnswort	Hypericum sphaerocarpum	
Bottlebrush grass	Hystrix patula	
Common rush	Juncus effusus solutus	
Greene's rush	Juncus greenei	
Inland rush	Juncus interior	
Prairie June grass	Koeleria cristata	
False dandelion	Krigia biflora	
Dwarf dandelion	Krigia virginica	
False boneset	Kuhnia eupatoroides	
Blue lettuce	Lactuca floridana	
Bushy pinweed	Lechea stricta	
Slender leaved pinweed	Lechea tenuifolia	
Hairy pinweed	Lechea villosa	

<u>Common name</u>	<u>Scientific name</u>	<u>Weight</u>
Round-headed bush clover	<i>Lespedeza capitata</i>	
Rough blazing star	<i>Liatris aspera</i>	
Dwarf blazingstar	<i>Liatris cylindracea</i>	
Tall gayfeather	<i>Liatris pycnostachya</i>	
Blue toadflax	<i>Linaria canadensis</i>	
Grooved yellow flax	<i>Linum sulcatum</i>	
Hoary puccoon	<i>Lithospermum canescens</i>	
Fringed puccoon	<i>Lithospermum incisum</i>	
Wild lupine	<i>Lupinus perennis</i>	
Whorled loosestrife	<i>Lysimachia quadrifolia</i>	
Wild bergamot	<i>Monarda fistulosa</i>	
Horse mint	<i>Monarda punctata</i>	
Marbleseed	<i>Onosmodium hispidissimum</i>	
Prairie panic grass	<i>Panicum leibergii</i>	
Scribner's panic grass	<i>Panicum oligosanthes scribneria</i>	
Long-stalked panic grass	<i>Panicum perlongum</i>	
White-haired panic grass	<i>Panicum villosissimum</i>	
Prairie switch grass	<i>Panicum virgatum</i>	
Wild quinine	<i>Parthenium integrifolium</i>	
Hairy lens grass	<i>Paspalum ciliatifolium</i>	
Lousewort	<i>Pedicularis lanceolata</i>	
Foxglove beardtongue	<i>Penstemon digitalis</i>	
Hairy beard tongue	<i>Penstemon hirsutus</i>	
Pale beard tongue	<i>Penstemon pallidus</i>	
White prairie clover	<i>Petalostemum candida</i>	
Purple prairie clover	<i>Petalostemum purpureum</i>	
Ninebark	<i>Physocarpus opulifolius</i>	
Pink milkwort	<i>Polygala incarnata</i>	
Purple milkwort	<i>Polygala polygama</i>	
Field milkwort	<i>Polygala sanguinea</i>	
Prairie cinquefoil	<i>Potentilla arguta</i>	
Slender mountain mint	<i>Pycnanthemum tenuifolium</i>	
Mountain mint	<i>Pycnanthemum virginanum</i>	
Yellow coneflower	<i>Ratibida pinnata</i>	
Meadow beauty	<i>Rhexia virginica</i>	
Smooth sumac	<i>Rhus glabra</i>	
Pasture rose	<i>Rosa carolina</i>	
Black-eyed Susan	<i>Rudbeckia hirta</i>	
Sweet black-eyed Susan	<i>Rudbeckia subtomentosa</i>	
Wild petunia	<i>Ruellia humilis</i>	
Wool grass	<i>Scirpus cyperinus</i>	
Early figwort	<i>Scophularia lanceolata</i>	
Small skullcap	<i>Scutellaria parvula</i>	
Prairie ragwort	<i>Senecio plattensis</i>	
Sleepy catchfly	<i>Silene antirrhina</i>	
Starry campion	<i>Silene stellata</i>	
Rosinweed	<i>Silphium integrifolium</i>	
Compass planat	<i>Silphium laciniatum</i>	
Cup plant	<i>Silphium perfoliatum</i>	
Prairie dock	<i>Silphium terebinthaceum</i>	
Common blue-eyed grass	<i>Sisyrinchium albidum</i>	

2008 Dropseed North Seed Mix
Vieregg (176 species)

<u>Common name</u>	<u>Scientific name</u>	<u>Weight</u>
Grass-leaved goldenrod	<i>Solidago graminifolia</i>	
Viscid bushy goldenrod	<i>Solidago gymnospermoides</i>	
Early goldenrod	<i>Solidago juncea</i>	
Missouri goldenrod	<i>Solidago missouriensis</i>	
Old field goldenrod	<i>Solidago nemoralis</i>	
Showy goldenrod	<i>Solidago speciosa</i>	
Indian grass	<i>Sorghastrum nutans</i>	
Meadowsweet	<i>Spiraea alba</i>	
Prairie dropseed	<i>Sporobolus heterolepis</i>	
Porcupine grass	<i>Stipa spartea</i>	
Sand fameflower	<i>Talinum rugospermum</i>	
Goat's rue	<i>Tephrosia virginiana</i>	
American germander	<i>Teucrium canadense</i>	
Ohio spiderwort	<i>Tradescantia ohiensis</i>	
Blue vervain	<i>Verbena hastata</i>	
Hoary vervain	<i>Verbena stricta</i>	
Hairy white vervain	<i>Verbena urticifolia</i>	
Common ironweed	<i>Vernonia fasciculata</i>	
Culver's root	<i>Veronicastrum virginicum</i>	
Birdsfoot violet	<i>Viola pedata</i>	
Arrow-leaved violet	<i>Viola sagittata</i>	
Kittentails	<i>Wulfenia bullii</i>	
Golden alexander	<i>Zizia aurea</i>	
		<u>210 lbs</u>
		235 lbs.

<u>Common name</u>	<u>Scientific name</u>	<u>Weight</u>
Wingstem	Actinomeris alternifolia	
Purple gerardia	Agalinis purpurea	
Tall agrimony	Agrimonia gryposepala	
Swamp agrimony	Agrimonia parviflora	
Nodding wild onion	Allium cernuum	
Leadplant	Amorpha canescens	
Indigo bush	Amorpha fruticosa	
Big bluestem	Andropogon gerardii	
Little bluestem	Andropogon scoparius	
Thimbleweed	Anemone cylindrica	
Field cat's foot	Antennaria neglecta	
Pussytoes	Antennaria plantaginifolia	
Stiff sandwort	Arenaria stricta	
Swamp milkweed	Asclepias incarnata	
Common milkweed	Asclepias syriaca	
Whorled milkweed	Asclepias verticillata	
Heather aster	Aster ericoides	
New England aster	Aster novae-angliae	
Swamp aster	Aster puniceus	
Silky aster	Aster sericeus	
Canadian milk vetch	Astragalus canadensis	
White wild indigo	Baptisia leucantha	
Cream wild indigo	Baptisia leucophaea	
Sideoats grama	Bouteloua curipendula	
Hairy grama	Bouteloua hirsuta	
Pale Indian plantain	Cacalia atriplicifolia	
Sweet-scented Indian plantain	Cacalia suaveolens	
Copper-shouldered oval sedge	Carex bicknellii	
Porcupine sedge	Carex hystericina	
Sand bracted sedge	Carex mulenbergii	
Common oak sedge	Carex pennsylvanica	
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New Jersey tea	Ceanothus americanus	
Golden prairie aster	Chrysopsis camporum	
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Tall coreopsis	Coreopsis tripteris	
Slender sand sedge	Cyperus filiculmis	
Poverty oat grass	Danthonia spicetata	
Showy tick trefoil	Desmodium canadense	
Illinois tick trefoil	Desmodium illinoense	
Shooting star	Dodecatheon meadia	
Pale purple coneflower	Echinacea pallida	
Prairie wild rye	Elymus canadensis	
Virginia wild rye	Elymus virginicus	
Cinnamon willow herb	Epilobium coloratum	
Purple love grass	Eragrostis spectabilis	
Rattlesnake master	Eryngium yuccifolium	
Tall boneset	Eupatorium altissimum	
Spotted Joe pye weed	Eupatorium maculatum	

<u>Common name</u>	<u>Scientific name</u>	<u>Weight</u>
Boneset	Eupatorium perfoliatum	
Upland boneset	Eupatorium sessilifolium	
Flowering spurge	Euphorbia corollata	
Queen-of-the-prairie	Filipendula rubra	
Biennial gaura	Gaura biennis	
Fringed gentian	Gentiana crinita	
Prairie gentian	Gentiana purberulenta	
Prairie smoke	Geum triflorum	
Sweet everlasting	Gnaphalium obtusifolium	
Sneezeweed	Helenium autumnale	
Common rockrose	Helianthemum canadense	
Western sunflower	Helianthus occidentalis	
Prairie sunflower	Helianthus rigidus	
False sunflower	Heliopsis helianthoides	
Alumroot	Heuchera richardsonii	
Hairy hawkweed	Hieracium gronovii	
Long-bearded hawkweed	Hieracium longipilum	
Long-leaved bluets	Houstonia longifolia	
Great St. Johns wort	Hypericum pyramidatum	
Bottlebrush grass	Hystrix patula	
Common rush	Juncus effusus solutus	
Greene's rush	Juncus greenei	
Inland rush	Juncus interior	
Prairie June grass	Koeleria cristata	
False dandelion	Krigia biflora	
Dwarf dandelion	Krigia virginica	
False boneset	Kuhnia eupatoroides	
Round-headed bush clover	Lespedeza capitata	
Rough blazing star	Liatris aspera	
Tall gayfeather	Liatris pycnostachya	
Blue toadflax	Linaria canadensis	
Grooved yellow flax	Linum sulcatum	
Wild lupine	Lupinus perennis	
Whorled loosestrife	Lysimachia quadrifolia	
Wild bergamot	Monarda fistulosa	
Horse mint	Monarda punctata	
Marbleseed	Onosmodium hispidissimum	
Prairie panic grass	Panicum leibergii	
Scribner's panic grass	Panicum oligosanthos scribneria	
Long-stalked panic grass	Panicum perlongum	
White-haired panic grass	Panicum villosissimum	
Prairie switch grass	Panicum virgatum	
Wild quinine	Parthenium integrifolium	
Foxglove beardtongue	Penstemon digitalis	
Hairy beard tongue	Penstemon hirsutus	
Pale beard tongue	Penstemon pallidus	
White prairie clover	Petalostemum candida	
Purple prairie clover	Petalostemum purpureum	
Pink milkwort	Polygala incarnata	
Purple milkwort	Polygala polygama	
Field milkwort	Polygala sanguinea	

<u>Common name</u>	<u>Scientific name</u>	<u>Weight</u>
Prairie cinquefoil	Potentilla arguta	
Jacob's ladder	Polemonium reptans	
Mountain mint	Pycnanthemum virginanum	
Yellow coneflower	Ratibida pinnata	
Pasture rose	Rosa carolina	
Black-eyed Susan	Rudbeckia hirta	
Sweet black-eyed Susan	Rudbeckia subtomentosa	
Wild petunia	Ruellia humilis	
Wool grass	Scirpus cyperinus	
Early figwort	Scrophularia lanceolata	
Small skullcap	Scutellaria parvula	
Prairie ragwort	Senecio plattensis	
Sleepy catchfly	Silene antirrhina	
Starry campion	Silene stellata	
Rosinweed	Silphium integrifolium	
Compass planat	Silphium laciniatum	
Cup plant	Silphium perfoliatum	
Prairie dock	Silphium terebinthaceum	
Common blue-eyed grass	Sisyrinchium albidum	
Grass-leaved goldenrod	Solidago graminifolia	
Viscid bushy goldenrod	Solidago gymnospermoides	
Early goldenrod	Solidago juncea	
Missouri goldenrod	Solidago missouriensis	
Old field goldenrod	Solidago nemoralis	
Showy goldenrod	Solidago speciosa	
Indian grass	Sorghastrum nutans	
Prairie dropseed	Sporobolus heterolepis	
Porcupine grass	Stipa spartea	
Sand fameflower	Talinum rugospermum	
Goat's rue	Tephrosia virginiana	
American germander	Teucrium canadense	
Ohio spiderwort	Tradescantia ohioensis	
Blue vervain	Verbena hastata	
Hoary vervain	Verbena stricta	
Common ironweed	Vernonia fasciculata	
Culver's root	Veronicastrum virginicum	
Birdsfoot violet	Viola pedata	
Arrow-leaved violet	Viola sagittata	
Kittentails	Wulfenia bullii	
Golden alexander	Zizia aurea	
		<u>23.5 lbs</u>
		(14 lbs dry mix 4.5 lbs. wet mix 5 lbs. mesic mix)

2009 – Planting #81 – Dropseed North

32 1-gallon container plants of *Filipendula rubra* were planted in seven groups of four in the wettest area of the planting on Dec. 4 just before the ground froze by Mary and Jim Vieregg.

The plants were obtained from Pizzo Associates as a donation of extra stock. Kyle Baner (kyle@pizzo.info) was the contact person.