Planting #132
2019 Planting History
Prepared by Amanda Contreras and Tyler Pellegrini

Name: Didier Corner Planting
0.5 acres total
Dry Mesic: 0.5 acres

Site Conditions

General Location – Located on the north west edge of the Didier Tract in the Tellabs Management Unit.
GPS: 41°53'55.47"N, 89°22'46.59"W
Elevation: 703 ft.
County: Lee

Soil Types

According to the Web Soil Survey for the planting area, soil types include:

Soil Type	Acres in AOI	Percent of AOI
Martinsville silt loam, 0 to 2 percent slopes	0.4	53.9%
Eleva fine sandy loam, 15 to 35 percent slopes	0.3	46.1%
Total for Area of Interest	**0.7**	**100.0%**

Figure 1. Soil types present within the planting. Source: NRCS.

*Above are basic descriptions, a complete soil test is needed to determine specific soil characteristics. For additional information, see Soil Web Survey website: http://websoilsurvey.nrcs.usda.gov/app/

Topography

Simply put, the topography of the planting site is a flat, open area. There are no geographic features worth noting. The half-acre is surrounded by woodland on three sides and the neighbor's row crop to the west.

Agricultural History

The site had been in agriculture for years before planting. It was planted in corn when planting began. Cody Considine disked the site the week before to prep and smooth the soil. These preparations made for easy driving when it came time to seed.

Site Preparations

The 2019 season was overall very wet, especially early spring. At the time of planting, temperatures were fluctuating above average for the time of year. The ground was not frozen but luckily, the site was dry. The corn was harvested just prior to planting time and the soil was then disked soon thereafter. There was no need to mow or burn any remaining corn stubble.

Planting the Seed

Planting began on Tuesday, November 26th, 2019 and was completed in approximately 45 minutes. The weather conditions consisted of an overcast day, with little to no wind. Temperatures ranged in the low 40's with scattered rain expected later that day.

The site was planted using the pendulum seeder attached to the Kubota tractor. Tyler Pellegrini was the sole human planter for this prairie planting. The pendulum seeder was 50% open for the duration of planting. Tyler made a single pass over the site by driving in concentric circles. Once the first pass was complete, he made random passes over the area to deposit the remaining seed.

Once the prairie seed mix was deposited, the western edge of the planting site was seeded with Canada rye in a 10-foot wide strip (The western edge is adjacent to our neighbor's agricultural field. T posts were installed the same day to indicate the boundary line). This strip consisted of two barrels of Canada rye seed or approximately 35-40 lbs of seed.

Planting Mixes

Planting 132 Seed Mix	
Paul Say's Prairie Seed Mix	50.5 lbs
Bernie's Mesic Mix	9 lbs
Byron Prairie Mix	8.8 lbs
Aster Combine Mix	20 lbs
Little Blue + Liatris Combine Mix	20.95 lbs
Woodland Seed Mix	28 lbs
Brome (Boone County Conservation District)	15.55 lbs
Grand Total	**152.8 lbs**

Figure 2. The different types of seed mixtures present in the Planting 132 seed mix.

Only one seed mix was used for this prairie planting. This seed mix was not entirely hand collected by the 2019 crew but instead consisted of seed collected by Nachusa stewards, the crew, and donations from Nachusa partners. A big thank you to Paul Say, Bernie Buchholz, Byron Forest Preserve, and Boone County Conservation District for these donations.

The donated seed was weighed and combined with Nachusa's own hand-collected and combine seed. The Woodland Seed Mix was hand-collected by the 2019 crew while the Aster and Little Blue + Liatris Mixes were combined on-site by Cody Considine. Refer to **Figure 2** for the different mixes that comprise the Planting 132 Seed Mix. The site was planted at a heavy rate, approximately 50 lbs. for the half-acre.

Paul Say is the official steward of the Didier Woods management unit located on the west end of Stone Barn Savannah. His personal, hand-collected prairie seed mix is composed of the species listed below in **Figure 3.** Bernie Buchholz, the official steward of the Gobbler Ridge management unit, donated a seed mix of various mesic species. Byron Forest Preserve donated a general prairie seed mix (**Figure 4**) and Boone County Conservation District provided a healthy amount of wild brome seed. The Nachusa crew hand collected the Woodland Seed Mix, and that species list can be found on Page 6.

Paul Say's Prairie Seed Mix	
Species Common Name	**lbs.**
Spiderwort	0.25
Pale purple coneflower	17
Prairie cinquefoil (2012)	2
Illinois tick trefoil (2012)	0.9
Field anemone	≤ 0.5
Black eyed susan	3.5
Coreopsis palmata	2
Wild quinine	
Western sunflower	
Rosinweed	4
Leadplant	1.3
Prairie coreopsis	1.5
Wild quinine	5.5
Flowering spurge	2.5
Prairie cinquefoil	1.3
Marbleseed	≤ 0.5
Prairie blazing star	2.5
Sweet black eyed susan	≤ 0.5
Ironweed	0.75
Tellabs rushes/sedges mix	2.5
Missouri goldenrod	
Mountain mint	
Grass leaf goldenrod	
Heath aster	
Showy goldenrod	1
Sensitive fern	
Pale Indian plantain	
Rough blazing star	1
Culver's root	1
Early horse gentian	
Marbleseed	
Approximate Total	**52 lbs.**

Figure 3. The species found in Paul Say's Prairie Seed Mix. Please note that some species were milled together and so their weights are listed as a combined total weight.

Byron Forest Preserve Seed Mix	
Scientific Name	**Common Name**
Allium cernuum	nodding onion
Amorpha canescens	leadplant
Anemone cylindrica	thimbleweed
Anemone patens	pasque-flower
Antennaria neglecta	cats-foot
Antennaria plantaginifolia	pussy-toes
Arnoglossum atriplicifolium	indian-plantain
Asclepias tuberosa	butterfly-weed
Asclepias verticillata	whorled milkweed
Asclepias viridiflora	green milkweed
Baptisia alba var. macrophylla	white wild indigo
Baptisia bracteata	cream wild indigo
Bouteloua curtipendula	side-oats grama
Carex bicknellii	Bicknell's sedge
Carex meadii	montana sedge
Carex muehlenbergii	Muhlenberg's sedge
Ceanothus americanus	new jersey tea
Coreopsis palmata	prairie tickseed
Coreopsis tripteris	tall tickseed
Dalea candida	white prairie-clover
Dalea purpurea	purple prairie-clover
Desmodium canadense	showy tick-trefoil
Desmodium illinoense	Illinois tick-trefoil
Dichanthelium oligosanthes	hellers rosette grass
Dodecatheon meadia	pride-of-ohio
Drymocallis arguta	prairie cinquefoil
Echinacea pallida	pale coneflower
Eryngium yuccifolium	button eryngo
Euphorbia corollata	flowering spurge
Euthamia graminifolia	flat-top goldentop
Gentiana puberulenta	downy gentian
Helianthus occidentalis	few-leaf sunflower
Helianthus pauciflorus	prairie sunflower
Heserostipa spartea	porcupine grass
Heuchera richardsonii	Richardson's alumroot
Hieracium longipilum	long-beard hawkweed
Ionactis linariifolius	flax-leaf aster
Lespedeza capitata	round-head bush-clover
Lespedeza leptostachya	prairie bush-clover
Liatris aspera	rough gayfeather
Lithospermum canescens	hoary puccoon
Lithospermum incisum	fringed puccoon
Lobelia spicata	pale-spike lobelia

Monarda fistulosa	oswego-tea
Monarda punctata	spotted beebalm
Oxalis violacea	purple wood-sorrel
Parthenium integrifolium	wild quinine
Pedicularis canadensis	canadian lousewort
Penstemon digitalis	foxglove beardtongue
Penstemon hirsutus	hairy beardstongue
Penstemon pallidus	pale beardtongue
Pseudognaphalium obtusifolium	sweet everlasting
Ratibida pinnata	yellow coneflower
Rosa carolina	carolina rose
Rudbeckia hirta	black-eyed-susan
Ruellia humilis	fringe-leaf wild petunia
Schizachyrium scoparium	little false bluestem
Silphium integrifolium	entire-leaf rosinweed
Silphium laciniatum	compass-plant
Silphium terebinthinaceum	prairie dock
Sisyrinchium campestre	prairie blue-eyed-grass
Solidago juncea	early goldenrod
Solidago nemoralis	gray goldenrod
Solidago ptarmicoides	stiff goldenrod
Solidago rigida	hard-leaf flat-top-goldenrod
Solidago speciosa	showy goldenrod
Sorghastrum nutans	yellow indian grass
Spiranthes magnicamporum	great plains ladies-tresses
Sporobolus heterolepis	prairie dropseed
Symphyotrichum ericoides	white heath american-aster
Symphyotrichum laeve	smooth blue american-aster
Symphyotrichum oblongifolium	oblong-leaf aster
Symphyotrichum oolentangiense	azure aster
Symphyotrichum sericeum	silky aster
Tephrosia virginiana	goats-rue
Tradescantia ohiensis	bluejacket
Verbena stricta	hoary vervain
Viola pedata	bird-foot violet
Viola pedatifida	crow-foot violet
Zizia aptera	heart-leaf alexanders
Zizia aurea	golden alexanders

Figure 4. A list of the scientific and common names of the species in the general prairie seed mix generously donated from Byron Forest Preserve.

Woodland Seed Species List

Scientific Name	Common Name	Total lbs.
Actea rubra	Red Baneberry	0.005
Agastache scrophulariaefolia	Purple Giant Hyssop	3.900
Allium tricoccum	Wild Leek	0.033
Amphicarpaea bracteate	American Hog Peanut	0.049
Arisaema triphyllum	Jack-In-The-Pulpit	2.220
Brachyelytrum erectum	Long Awned Wood Grass	0.850
Campanulastrum americana	American Bellflower	0.073
Carex davisii	Awned Graceful Sedge	0.008
Celastrus scandens	American Bittersweet	0.045
Cinna arundinacea	Common Wood Reed	2.250
Clematis virginiana	Virgin's Bowers	0.364
Dicentra cucullaria	Dutchman's Breeches	0.014
Echinocystis lobata	Wild Cucumber	0.005
Elymus villosus	Silky Wild Rye	0.395
Elymus virginicus	Virginia Wild Rye	0.395
Eurybia furcatus	Forked Aster	0.002
Festuca subverticillata	Nodding Fescue	0.572
Geranium maculatum	Wild Geranium	0.088
Hedeoma hispida	Rough Pennyroyal	0.008
Helianthus tuberosus	Jerusalem Artichoke	7.157
Hylodesmum glutinosum	Pointed Tick Trefoil	0.083
Mertensia virginica	Virginia Bluebells	0.034
Polemonium reptans	Jacob's Ladder	0.002
Polygonatum biflorum	Smooth Solomon's Seal	0.261
Prenanthes alba	Lion's Foot	0.213
Prunus virginiana	Chokecherry	0.026
Scrophularia lanceolata	Early Figwort	7.048
Scutellaria ovata versicolor	Heart-leaved Skullcap	0.110
Silene stellata	Starry Campion	0.014
Smilacina racemosa	Feathery False Solomon's Seal	0.723
Smilacina stellata	Starry False Solomon's Seal	0.186
Teucrium canadense	American Germander	0.002
Verbena urticifolia	Hairy White Vervain	0.297
Grand Total		**27.43 lbs.**

Figure 5. Listed above are the 33 woodland species and the corresponding amounts hand-collected by the 2019 Nachusa crew. These species were added to the general Planting 132 Seed Mix.

Lessons Learned

This planting was pretty straight forward and was completed without issue. A good safety note to keep in mind is to watch for low branches when driving the Kubota tractor through the woods.

Maps

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
570A	Martinsville silt loam, 0 to 2 percent slopes	0.4	53.9%
761F	Eleva fine sandy loam, 15 to 35 percent slopes	0.3	46.1%
Totals for Area of Interest		**0.7**	**100.0%**

Figure 5. The different soil types found within the planting. (Source: NCRS)

Figure 5. A colorful map showing the planting boundary (in bold green) and the seed mix distribution.