

## PLANT COMMUNITY TRANSECT DATA

Brad & Leslea Hodgson, Big bluestem pasture transect data

Monitoring Site: MN10401030001

Control (Not Grazed)

<u>Plant Name</u>	2011		2013
	<u>July</u>	<u>Sept</u>	<u>July</u>
Duff/litter	9	9	1
<b>NON-NATIVE GRASSES/LEGUMES</b>			
Kentucky Bluegrass ( <i>Poa pratensis</i> )	2	2	4
Smooth brome ( <i>Bromus inermis</i> )	2	1	
<b>NATIVE WARM SEASON GRASSES</b>			
Big bluestem ( <i>Andropogon gerardii</i> )	281	253	273
Indiangrass ( <i>Sorghastrum nutans</i> )	12	52	10
<b>FORBS</b>			
Red clover ( <i>Trifolium pratense</i> )	3	1	
Broadleaf plantain ( <i>Plantago major</i> )	1		
Annual fleabane ( <i>Erigeron annuus</i> )	1	1	
Canada goldenrod ( <i>Solidago canadensis</i> )	28	36	47
Wild parsnip ( <i>Pastinaca sativa</i> )	4	1	3
Dandelion ( <i>Taraxacum officinale</i> )	10		
Common burdock ( <i>Arctium minus</i> )		1	
White heath aster ( <i>Aster pilosus</i> )		3	
Common milkweed ( <i>Asclepias syriaca</i> )			2
Crownvetch ( <i>Coronilla varia</i> )	44	36	60
Alfalfa ( <i>Medicago sativa</i> )		1	
Ragweed ( <i>Ambrosia artemisiifolia</i> )	1		
Platte thistle ( <i>Cirsium canescens</i> )	1	1	
Canada thistle ( <i>Cirsium arvense</i> )		1	
<b>WOODY SPECIES</b>			
Boxelder ( <i>Acer negundo</i> )	1		

Monitoring Site: MN10401030002

Grazed

<u>Plant Name</u>	2011		2013
	<u>July</u>	<u>Sept</u>	<u>July</u>
Duff/litter	4	1	
Soil		2	
<b>NON-NATIVE GRASSES/LEGUMES</b>			
Kentucky Bluegrass ( <i>Poa pratensis</i> )	5	2	
<b>NATIVE WARM SEASON GRASSES</b>			
Big bluestem ( <i>Andropogon gerardii</i> )	319	344	328
Indiangrass ( <i>Sorghastrum nutans</i> )	4	13	20
<b>FORBS</b>			
Red clover ( <i>Trifolium pratense</i> )	3	3	
Broadleaf plantain ( <i>Plantago major</i> )	1		
Annual fleabane ( <i>Erigeron annuus</i> )	2		
Canada goldenrod ( <i>Solidago canadensis</i> )	48	31	34
Wild parsnip ( <i>Pastinaca sativa</i> )	8	1	5
Dandelion ( <i>Taraxacum officinale</i> )	3		
Common burdock ( <i>Arctium minus</i> )	1		1
White heath aster ( <i>Aster pilosus</i> )		1	
Common milkweed ( <i>Asclepias syriaca</i> )			1
Curly dock ( <i>Rumex crispus</i> )	2	1	
Hedge mustard ( <i>Sisymbrium</i> )			1

## PLANT COMMUNITY TRANSECT DATA

### Brad & Leslea Hodgson, big bluestem pasture clipping data

<u>CONTROL</u>	lb/ac	lb/ac	lb/ac
Monitoring Site MN 10401030001	<b>6-Jul</b>	<b>19-Sep</b>	<b>19-Jul</b>
<u>Plant Name</u>	<u>2011</u>	<u>2011</u>	<u>2013</u>
Indian grass ( <i>Sorghastrum nutans</i> )		159.9	
Big bluestem ( <i>Andropogon gerardii</i> )	4189.7	2167.3	3152.4
Kentucky bluegrass ( <i>Poa pratensis</i> )	72.5	30.9	222.8
Quackgrass ( <i>Agropyron repens</i> )	4.3		
Subtotal - Grass	<b>4266.5</b>	<b>2358.1</b>	<b>3375.2</b>
Canada goldenrod ( <i>Solidago canadensis</i> )	29.9		19.2
Red clover ( <i>Trifolium pratense</i> )	1.1		
White clover ( <i>Trifolium repens</i> )	1.6		
Dandelion ( <i>Taraxacum officinale</i> )	25.6	2.1	38.4
Broadleaf plantain ( <i>Plantago major</i> )	7.5		
White heath aster ( <i>Aster pilosus</i> )		7.5	
Mouseear chickweed ( <i>Cerastium vulgatum</i> )	38.4		
Wild parsnip ( <i>Pastinaca sativa</i> )	10.7		
Subtotal - Forbs	<b>114.8</b>	<b>9.6</b>	<b>57.6</b>

<u>GRAZED</u>	lb/ac	lb/ac	lb/ac
Monitoring Site MN 104 01030002	<b>6-Jul</b>	<b>19-Sep</b>	<b>19-Jul</b>
<u>Plant Name</u>	<u>2011</u>	<u>2011</u>	<u>2013</u>
Indiangrass ( <i>Sorghastrum nutans</i> )	106.6		
Big bluestem ( <i>Andropogon gerardii</i> )	2556.5	3512.7	5052.3
Kentucky bluegrass ( <i>Poa pratensis</i> )	102.3	11.7	255.9
Subtotal - Grass	<b>2765.4</b>	<b>3524.4</b>	<b>5308.2</b>
Canada goldenrod ( <i>Solidago canadensis</i> )	27.7		
Red clover ( <i>Trifolium pratense</i> )	295.3	2.1	
White clover ( <i>Trifolium repens</i> )		2.1	
Dandelion ( <i>Taraxacum officinale</i> )	24.0	1.1	
Broadleaf plantain ( <i>Plantago major</i> )		1.1	
Smallflower buttercup ( <i>Ranunculus abortivus</i> )		4.3	
Smallflower galinsoga ( <i>Galinsoga parviflora</i> )		4.3	4.3
Subtotal - Forbs	<b>347</b>	<b>15.0</b>	<b>4.3</b>