

ECOLOGICAL SITE QUICK REFERENCE

MLRA 102C

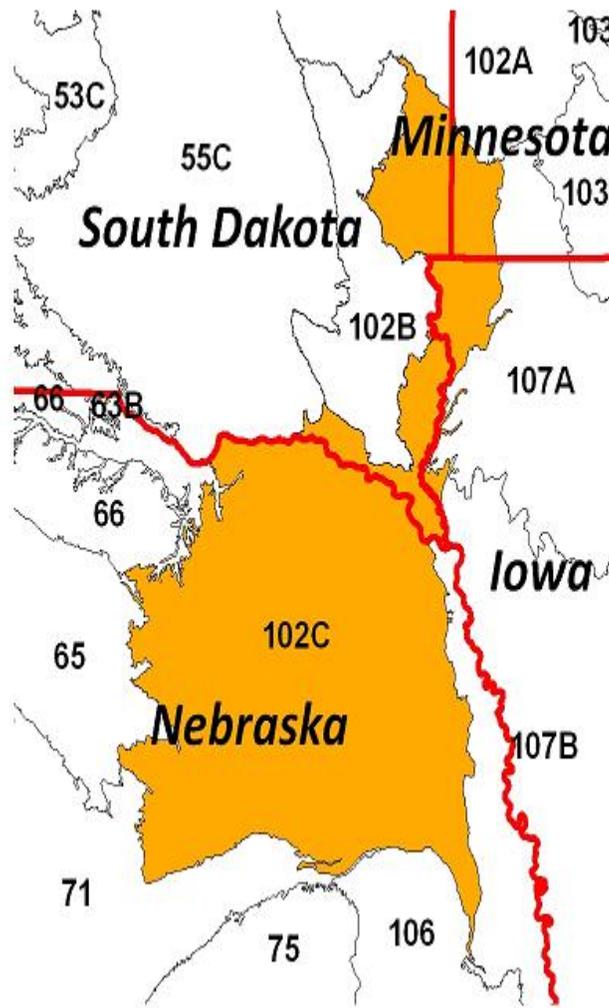


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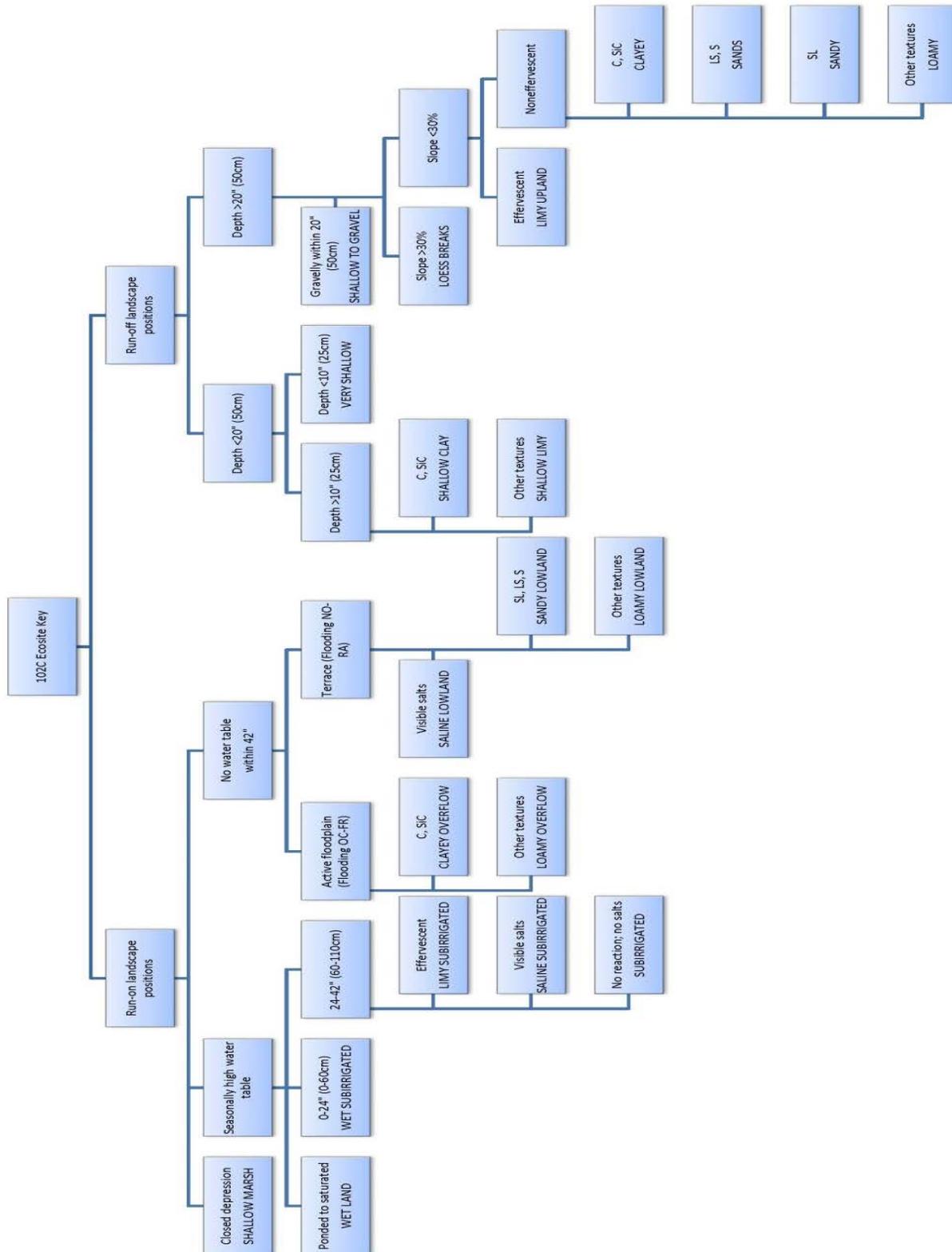
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<u>Clayey</u>	<u>R102CY957NE</u>	<u>Not Developed</u>
<u>Clayey Overflow</u>	<u>R102CY049NE</u>	<u>Not Developed</u>
<u>Closed Depression</u>		<u>Not Developed</u>
<u>Limy Subirrigated</u>	<u>R102CY053NE</u>	<u>Not Developed</u>
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<u>Shallow Clay</u>	<u>R102CY060NE</u>	<u>Not Developed</u>
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Additional information is available at: <https://esis.sc.egov.usda.gov> or click on the site name above to go directly to specific site information.

Location Map for MLRA 102C– Loess Uplands



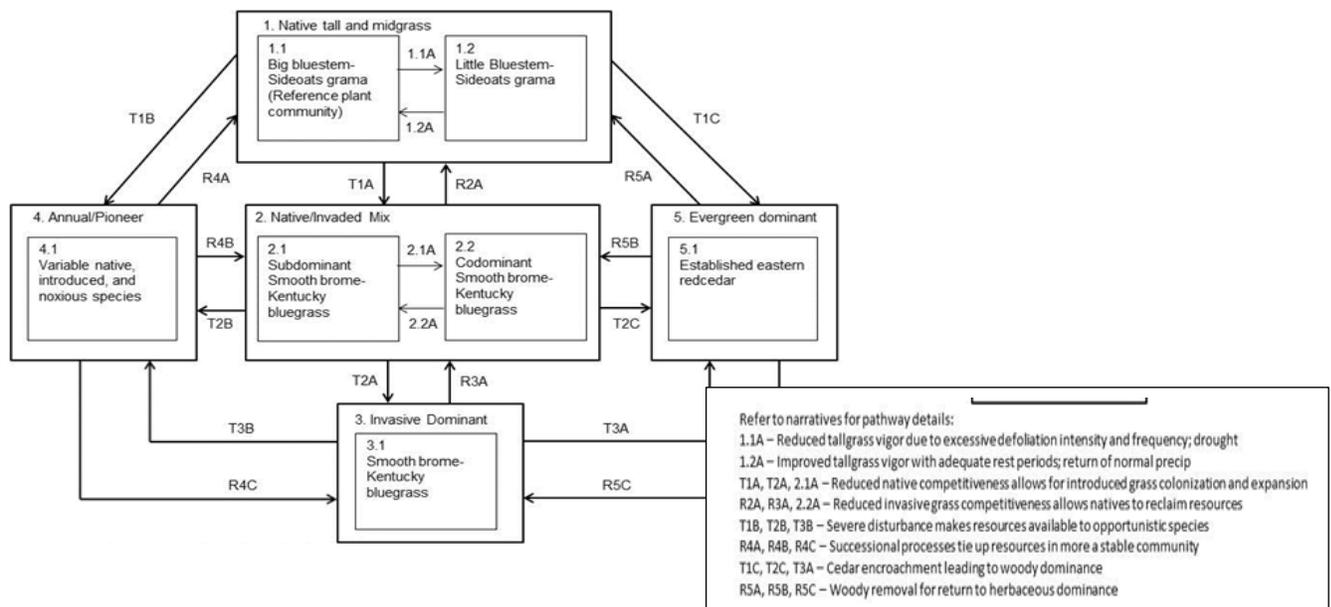
Last Update: 5/1/2014



SITE: LIMY UPLAND R102CY059NE

SITE DESCRIPTION: This site predominantly occurs on nearly level to steep upland hillslopes on interfluves (1-30% slopes). The slope shape is predominantly convex and generates runoff. These are predominantly very deep (moderately deep where residuum is present), well drained soils. The surface is loamy. The foremost diagnostic characteristic is the presence of calcium carbonates (lime) in the upper 10" of the soil profile.

Plant Community	Community Description	Average Production #/ac	AUM/AC	
			50% Use	60% Use
Big Bluestem / Sideoats Grama	The plant community consists of 75-90% grasses and grass-likes, 5-10% forbs and 1-5% shrubs. Dominant grasses include big bluestem, little bluestem, porcupinegrass, and sideoats grama. Other grasses and grass-likes are blue grama, prairie junegrass, and sedges. Indiangrass and switchgrass contributions are notably sparse compared to Loamy Upland. Forb species are diverse and include prairie clovers, scurfpeas, and goldenrods. Common shrubs include leadplant and New Jersey tea.	3000	0.82	0.99
Little Bluestem / Sideoats Grama	Tall grasses remain an important component, but mid-grasses - typically sideoats grama and little bluestem - dominate site structure and function.	2450	0.67	0.81
Subdominant Smooth Brome / Kentucky Bluegrass	Native grasses still dominate the site, but introduced cool-season species have established a foothold in the system and can be found interspersed throughout the stand. Little bluestem and sideoats grama are the most common native grasses. Big bluestem, Indiangrass, porcupinegrass, blue grama and hairy grama are secondary species. The stand may still have a native tallgrass appearance overall, but bluegrass and/or brome can be easily found.	2100	0.58	0.69
Co-dominant Smooth Brome / Kentucky Bluegrass	This community is comprised of a relatively even mix of native grasses and invasive species overall. The introduced grasses may be dispersed throughout or occur in distinct patches. Forb diversity and abundance is diminished.	1750	0.48	0.58
Smooth Brome / Kentucky Bluegrass	Smooth brome dominates the site. Kentucky bluegrass is interspersed among the brome tillers. Warm-season natives, if present, are sparse yet often conspicuous due to pronounced differences in growth habits.	2300	0.63	0.76
Annual Pioneer	This community is heavily dominated by annual plants that thrive in disturbed areas and often includes snow-on-the-mountain, annual ragweed, Texas croton, nightshades, and/or hoary verbena. Noxious weeds are common including plumeless, musk, and Canada thistles. Leafy spurge becomes more common northward in the MLRA.	400	0.11	0.13
Evergreen Dominant	Cedar trees are a major component of the plant community and the woody canopy severely limits the herbaceous component.	1000	0.27	0.32



Limy Upland – Big Bluestem / Sideoats Grama Plant Community

Common Name	Scientific Name	Symbol	Lbs/acre	% Composition
GRASSES & Grasslikes				
Tall Wam Season Grasses			1050-1800	35-60
Big Bluestem	Andropogon gerardii	ANGE	600-900	20-30
Dropseed	Sporobolus sp.	SPORO	0-150	0-5
Indiangrass	Sorghastrum nutans	SONU2	150-300	5-10
Switchgrass	Panicum virgatum	PAVI2	0-300	0-10
Mid-Wam Season Grasses			1200-1750	40-58
Little Bluestem	Schizachyrium scoparium	SCSC	525-1050	18-35
Plains Muhly	Muhlenbergia cuspidata	MUCU3	0-150	0-5
Sideoats Grama	Bouteloua curtipendula	BOCU	750-1200	25-40
Short Grasses			0-300	0-10
Blue Grama	Bouteloua gracilis	BOGR2	0-300	0-10
Buffalograss	Bouteloua dactyloides	BODA2	0-150	0-5
Hairy Grama	Bouteloua hirsuta	BOHI2	0-150	0-5
Cool Season Grasses			250-650	8-22
Canada Wildrye	Elymus canadensis	ELCA4	0-150	0-5
Fall Rosette Grass	Dichanthelium wilcoxianum	DIWI5	0-150	0-5
Needleandthread	Hesperostipa comata	HECO26	0-150	0-5
Porcupinegrass	Hesperostipa spartea	HESP11	150-300	5-10
Prairie Junegrass	Koeleria macrantha	KOMA	30-150	1-5
Scribner's Panicum	Dichanthelium oligosanthes var. scribnerianum	DIOLS	30-150	1-5
Western Wheatgrass	Pascopyrum smithii	PASM	0-150	0-5
Grasslikes			30-300	1-10
Heavy Sedge	Carex gravida	CAGR4	0-150	0-5
Mead's Sedge	Carex meadii	CAME2	0-150	0-5
Sedge	Carex sp.	CAREX	0-150	0-5
FORBS			175-300	6-10
Baldwin's Ironweed	Vernonia baldwinii	VEBA	0-30	0-1
Black Samson Echinacea	Echinacea angustifolia	ECAN2	0-30	0-1
Canada Goldenrod	Solidago canadensis	SOCA6	0-30	0-1
Canadian Milkvetch	Astragalus canadensis	ASCA11	0-30	0-1
Candle Anemone	Anemone cylindrica	ANCY	0-30	0-1
Compassplant	Silphium laciniatum	SILA3	30-90	1-3
Cuman Ragweed	Ambrosia psilostachya	AMPS	0-30	0-1
Cutleaf Evening Primrose	Oenothera laciniata	OELA	0-30	0-1
Dotted Blazingstar	Liatris punctata	LIPU	0-30	0-1
Field Pussytoes	Antennaria neglecta	ANNE	0-30	0-1
Groundplum Milkvetch	Astragalus crassicaepus	ASCR2	0-30	0-1
Hoary Verbena	Verbena stricta	VEST	0-30	0-1
Missouri Goldenrod	Solidago missouriensis	SOMI2	0-30	0-1
Prairie Blue-eyed Grass	Sisyrinchium campestre	SICA9	0-30	0-1
Prairie Groundsel	Packera plattensis	PAPL12	0-30	0-1
Purple Locoweed	Oxytropis lambertii	OXLA3	0-30	0-1
Purple Prairie Clover	Dalea purpurea	DAPU5	30-90	1-3
Silverleaf Indian Breadroot	Pediomelum argophyllum	PEAR6	0-30	0-1
Snow-on-the-Mountain	Euphorbia marginata	EUMA8	0-30	0-1
Stiff Sunflower	Helianthus pauciflorus	HEPA19	0-30	0-1
Stiff Goldenrod	Oligoneuron rigidum	OLRI	0-30	0-1
Upright Prairie Coneflower	Ratibida columnifera	RACO3	0-30	0-1
Western Marbleseed	Onosmodium bejariense var. occidentale	ONBEO	0-30	0-1
Western Yarrow	Achillea millefolium var. occidentalis	ACMIO	0-30	0-1
White Heath Aster	Symphotrichum ericoides	SYER	0-30	0-1
White Prairie Clover	Dalea canadensis	DACA7	30-90	1-3
White Sagebrush	Artemisia ludoviciana	ARLU	0-30	0-1
SHRUBS			30-150	1-5
Leadplant	Amorpha canescens	AMCA6	30-90	1-3
Jersey Tea	Ceanothus herbaceus	CEHE	0-150	0-5
Prairie Rose	Rosa arkansana	ROAR3	0-150	0-5
Smooth Sumac	Rhus glabra	RHGL	0-30	0-1
Western Snowberry	Symphoricarpos occidentalis	SYOC	0-150	0-5

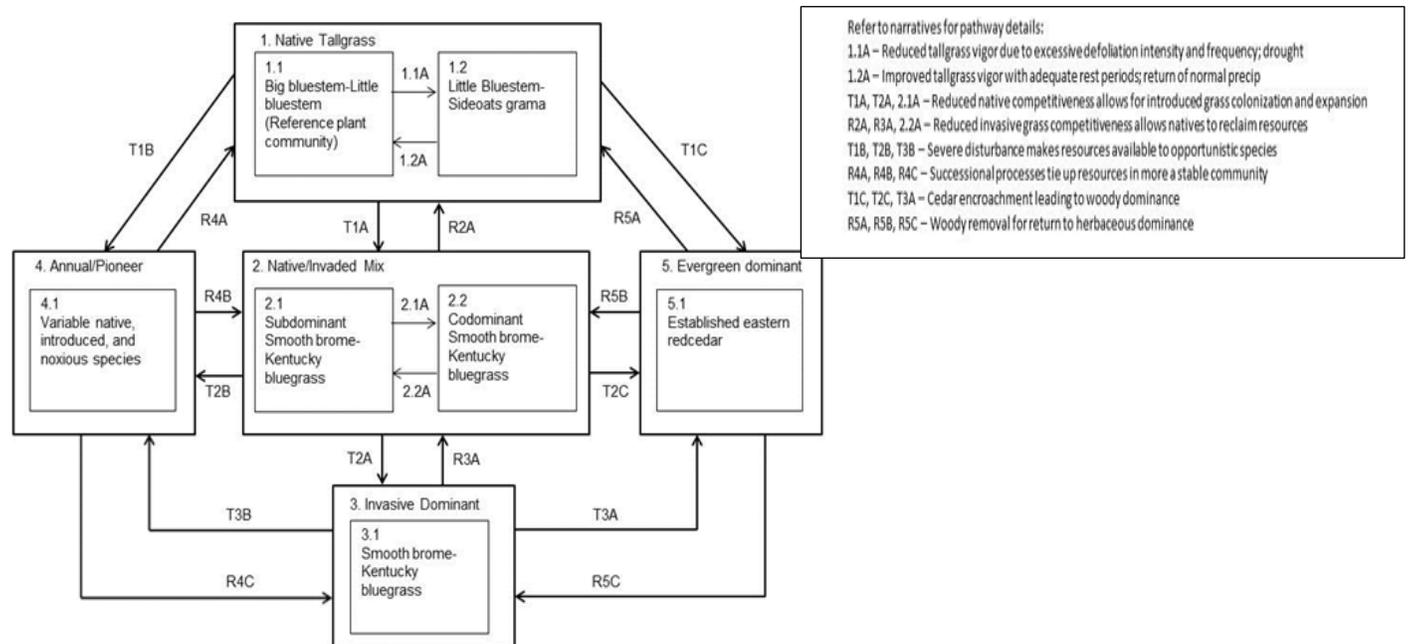
<i>Annual Production lbs./acre</i>	Big Bluestem / Sideoats Grama Community		
	LOW	RV*	HIGH
GRASSES & GRASSLIKES	2030	2685	3030
FORBS	135	225	345
SHRUBS	25	90	165
TOTAL	2190	3000	3540

*This list of plants and their relative proportions are based on near normal years. Fluctuations in species composition and relative production may change from year to year dependent upon precipitation or other climatic fluctuations. *RV = Representative Value.

SITE: LOAMY LOWLAND R102CY050NE

SITE DESCRIPTION: This site predominantly occurs on nearly level to very gently sloping upland drainageways, stream terraces, foot slopes, floodplains, and alluvial fans (0-3% slopes). It predominantly receives runoff from adjacent sites but some sites have a seasonally high water table. Soils are predominantly very deep, moderately well to well drained. Surface textures are predominantly silt loam, clay loam or loam and subsurface is loamy.

Plant Community	Community Description	Average Production #/ac	AUM/AC	
			50% Use	60% Use
Big Bluestem / Little Bluestem	The plant community consists of 85-95% grasses and grass-likes, 5-10% forbs and 0-5% shrubs. Dominant grasses include big bluestem, little bluestem, indiagrass, and switchgrass. Other grasses and grass-likes are sideoats grama, Scribner's panicum, and sedges. Forb species are diverse and include cudweed sagewort, western ragweed, and goldenrods. Common shrubs include western snowberry and leadplant.	4000	1.10	1.32
Little Bluestem / Sideoats Grama	This community largely resembles central Great Plains mixed-grass prairies. Tall grasses remain an important component, but mid-grasses - typically sideoats grama and little bluestem - dominate the site.	3200	0.88	1.06
Sub-dominant Smooth Brome / Kentucky Bluegrass	Native grasses dominate the site, but introduced cool season grasses have established and can be interspersed throughout the stand. The stand may still have a native tall grass appearance, but bluegrass and/or bromegrass can easily be found. Deciduous shrubs and trees may expand into areas where they did not historically persist.	2650	0.73	0.88
Co-dominant Smooth Brome / Kentucky Bluegrass	The mix of native grasses and invasive cool season grasses is relatively even. This may be a well-distributed interspersion of natives and invaders or distinct patches where invasive grasses dominate. Forb diversity and abundance is diminished.	2150	0.59	0.71
Smooth Brome / Kentucky Bluegrass	This community is typically composed of smooth brome with bluegrass interspersed among the brome tillers. Warm-season natives, if present, are sparse yet often conspicuous due to pronounced differences in growth habits and metabolic pathways	2800	0.77	0.92
Annual /Pioneer	This community is heavily dominated by annual plants that thrive in disturbed areas and often includes snow-on-the-mountain, annual ragweed, Texas croton, nightshades, and/or hoary verbena. Noxious weeds are common including plumeless, musk, and Canada thistles. Leafy spurge becomes more common northward in the MLRA.	600	0.16	0.20
Eastern Red Cedar	Cedar trees are a major component of the plant community and the woody canopy severely limits the herbaceous component.	1000	0.27	0.32



Loamy Lowland –Big Bluestem / Little Bluestem Plant Community

Common Name	Scientific Name	Symbol	Lbs/acre	% Composition
GRASSES & Grasslikes				
Tall Wam Season Grasses			3400-3800	85-95
Big Bluestem	Andropogon gerardii	ANGE	1000-1600	25-40
Indiangrass	Sorghastrum nutans	SONU2	200-400	5-10
Prairie Dropseed	Sporobolus heterolepis	SPHE	0-200	0-5
Switchgrass	Panicum virgatum	PAVI2	200-600	5-15
Mid-Wam Season Grasses			600-1000	15-25
Little Bluestem	Schizachyrium scoparium	SCSC	800-1200	20-30
Sideoats Grama	Bouteloua curtipendula	BOCU	200-600	5-15
Short Grasses			0-400	0-10
Blue Grama	Bouteloua gracilis	BOGR2	0-200	0-5
Buffalograss	Bouteloua dactyloides	BODA2	0-200	0-5
Cool Season Grasses			300-1050	8-26
Canada Wildrye	Elymus canadensis	ELCA4	0-200	0-5
Porcupinegrass	Hesperostipa spartea	HESP11	0-200	0-5
Prairie Junegrass	Koeleria macrantha	KOMA	0-200	0-5
Scribner's Panicum	Dchanthelium oligosanthes var. scribnerianum	DIOLS	0-175	0-4
Western Wheatgrass	Pascopyrum smithii	PASM	0-600	0-15
Grasslikes			0-200	0-5
Sedge	Carex sp.	CAREX	0-200	0-5
FORBS			200-400	5-10
Cuman Ragweed	Ambrosia psilostachya	AMPS	0-120	0-3
Dotted Blazingstar	Liatris punctata	LIPU	0-120	0-3
Field Pussytoes	Antennaria neglecta	ANNE	0-120	0-3
False Boneset	Brickellia eupatoriodes	BREU	0-120	0-3
Hoary Verbena	Verbena stricta	VEST	0-120	0-3
Illinois Ticktrefoil	Desmodium illinoense	DEIL2	0-120	0-5
Maximilian Sunflower	Helianthus maximiliani	HEMA2	0-120	0-5
Missouri Goldenrod	Solidago missouriensis	SOMI2	35-120	1-3
Purple Poppy Mallow	Callirhoe involucrata	CAIN2	0-200	0-5
Purple Prairie Clover	Dalea purpurea	DAPU5	0-120	0-3
Rush Skeletonplant	Lygodesmia juncea	LYJU	0-120	0-3
Slimflower Scurfpea	Psoralidium tenuiflorum	PSTE5	0-120	0-3
Stiff Goldenrod	Oligoneuron rigidum	OLRI	0-120	0-3
Tall Blazingstar	Liatris aspera	LIAS	0-120	0-3
Upright Prairie Coneflower	Ratibida columnifera	RACO3	0-120	0-3
Western Yarrow	Achillea millefolium var. occidentalis	ACMIO	0-120	0-3
White Heath Aster	Symphotrichum ericoides	SYER	0-120	0-3
White Sagebrush	Artemisia ludoviciana	ARLU	0-120	0-3
SHRUBS			0-200	0-5
Eastern Poison Ivy	Toxicodendron radicans	TORA2	0-200	0-5
Leadplant	Amorpha canescens	AMCA6	0-200	0-5
Prairie Rose	Rosa arkansana	ROAR3	0-200	0-5
Western Snowberry	Symphoricarpos occidentalis	SYOC	0-200	0-5
Other Shrubs		2SHRUB	0-200	0-5

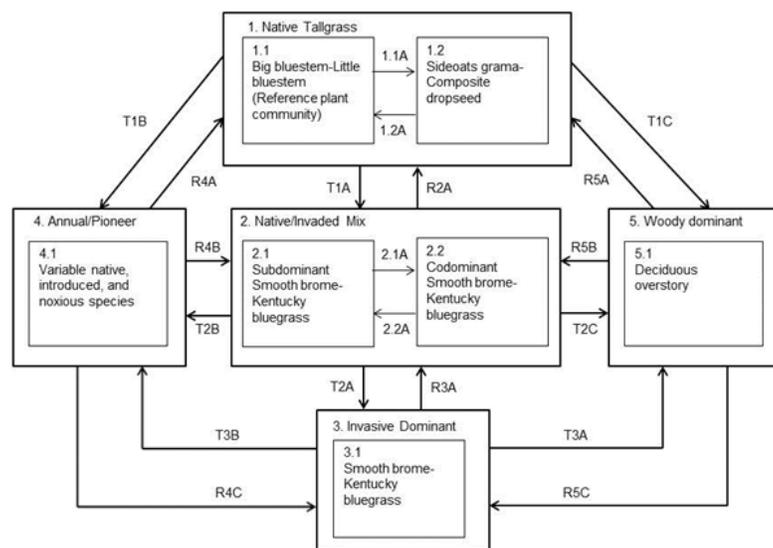
Annual Production lbs./acre	Big Bluestem / Little Bluestem Community		
	LOW	RV*	HIGH
GRASSES & GRASSLIKES	3025	3600	4100
FORBS	175	300	475
SHRUBS	0	100	225
TOTAL	3200	4000	4800

*This list of plants and their relative proportions are based on near normal years. Fluctuations in species composition and relative production may change from year to year dependent upon precipitation or other climatic fluctuations. *RV = Representative Value.

SITE: LOAMY OVERFLOW R102CY068NE

SITE DESCRIPTION: This site predominantly occurs on nearly level to gently sloping floodplains of river valleys, and in drainageways and draws of uplands (0-5% slopes) and are susceptible to occasional or frequent overflow that occurs from flooding of streams or run-in from a higher slope above. It predominantly receives runoff from adjacent sites, some have a seasonally high water table from 94 to 168 centimeters from October-July, while in others the water table is greater than 203 centimeters. These are predominantly very deep, moderately well to well drained soils. The surface texture is predominantly silt loam, silty clay loam, or loam (0-25 cm) and the subsurface texture is loamy.

Plant Community	Community Description	Average Production #/ac	AUM/AC	
			50% Use	60% Use
Big Bluestem / Little Bluestem	The plant community consists of 85-95% grasses and grass-likes, 5-10% forbs and 0-5% shrubs. Dominant grasses include big bluestem, little bluestem, Indiangrass, and switchgrass. Other grasses and grass-likes are sideoats grama, western wheatgrass, and sedges. Forb species are diverse and often include western ragweed and Missouri goldenrod. Common shrubs include western snowberry and eastern poison ivy.	3200	0.88	1.05
Sideoats Grama / Composite Dropseed	Mid-grasses, typically sideoats grama, composite dropseed and little bluestem, dominate the site with tallgrass remnants scattered throughout.	2600	0.71	0.85
Sub-dominant Smooth Brome / Kentucky Bluegrass	Native grasses dominate the site, but introduced cool season grasses have established and can be interspersed throughout the stand. The stand may still have a native tall grass appearance, but bluegrass and/or brome grass can easily be found.	2500	0.69	0.83
Co-dominant Smooth Brome / Kentucky Bluegrass	The mix of native grasses and invasive cool season grasses is relatively even. This may be a well-distributed interspersion of natives and invaders or distinct patches where invasive grasses dominate. Forb diversity and abundance is diminished.	2350	0.64	0.77
Smooth Brome / Kentucky Bluegrass	This community is typically composed of smooth brome with bluegrass interspersed among the brome tillers. Warm-season natives, if present, are sparse yet often conspicuous due to pronounced differences in growth habits and metabolic pathways	2400	0.66	0.79
Annual /Pioneer	This community is heavily dominated by annual plants that thrive in disturbed areas and often includes snow-on-the-mountain, annual ragweed, Texas croton, nightshades, and/or hoary verbena. Noxious weeds are common including plumeless, musk, and Canada thistles. Leafy spurge becomes more common northward in the MLRA.	900	0.25	0.30
Deciduous Overstory	Deciduous woody species have encroached and established, typically with species such as bur oak, box elder, and green ash. Eastern red cedar is not nearly as prominent as on upland sites, but may still occur. Moister, shaded growing conditions under the tree canopy causes a dramatic shift in understory composition towards species such as sedges, Virginia waterleaf, fowl manna grass, and smooth Solomon's seal.	1000	0.27	0.33



Loamy Overflow - Big Bluestem / Little Bluestem Plant Community

Common Name	Scientific Name	Symbol	Lbs/acre	% Composition
GRASSES & Grasslikes				
Tall Wam Season Grasses			2560-2880	80-90
Big Bluestem	Andropogon gerardii	ANGE	640-1120	20-35
Composite Dropseed	Sporobolus compositus	SPCO16	0-175	0-5
Indiangrass	Sorghastrum nutans	SONU2	160-320	5-10
Switchgrass	Panicum virgatum	PAVI2	160-480	5-15
Mid-Wam Season Grasses			480-960	15-30
Little Bluestem	Schizachyrium scoparium	SCSC	320-640	10-20
Sideoats Grama	Bouteloua curtipendula	BOCU	160-320	5-10
Cool Season Grasses			160-640	
Canada Wildrye	Elymus canadensis	ELCA4	0-160	0-5
Prairie Junegrass	Koeleria macrantha	KOMA	0-160	0-5
Scribner's Panicum	Dchanthelium oligosanthes var. scribnerianum	DIOLS	0-160	0-5
Western Wheatgrass	Pascopyrum smithii	PASM	160-640	5-20
Grasslikes			160-320	5-10
Sedge	Carex sp.	CAREX	160-320	5-10
FORBS			160-320	5-10
Baldwin's Ironweed	Vernonia baldwinii	VEBA	0-96	0-3
Blackeyed Susan	Rudbeckia hirta	RUHI2	0-96	0-3
Cuman Ragweed	Ambrosia psilostachya	AMPS	0-96	0-3
Dotted Blazingstar	Liatris punctata	LIPU	0-96	0-3
False Boneset	Brickellia eupatorioides	BREU	0-96	0-3
Hoary Verbena	Verbena stricta	VEST	0-96	0-3
Illinois Ticktrefoil	Desmodium illinoense	DEIL2	0-96	0-3
Meadow Garlic	Allium canadense	ALCA3	0-96	0-3
Missouri Goldenrod	Solidago missouriensis	SOMI2	35-96	1-3
Purple Poppy Mallow	Callirhoe involucrata	CAIN2	0-96	0-3
Purple Prairie Clover	Dalea purpurea	DAPU5	0-96	0-3
Silverleaf Indian Breadroot	Pediomelum argophyllum	PEAR6	0-96	0-3
White Heath Aster	Symphotrichum ericoides	SYER	0-96	0-3
White Sagebrush	Artemisia ludoviciana	ARLU	0-96	0-3
SHRUBS			0-160	0-5
Eastern Poison Ivy	Toxicodendron radicans	TORA2	0-160	0-5
Leadplant	Amorpha canescens	AMCA6	0-160	0-5
Prairie Rose	Rosa arkansana	ROAR3	0-160	0-5
Western Snowberry	Symphoricarpos occidentalis	SYOC	0-160	0-5
Other Shrubs		2SHRUB	0-160	0-5

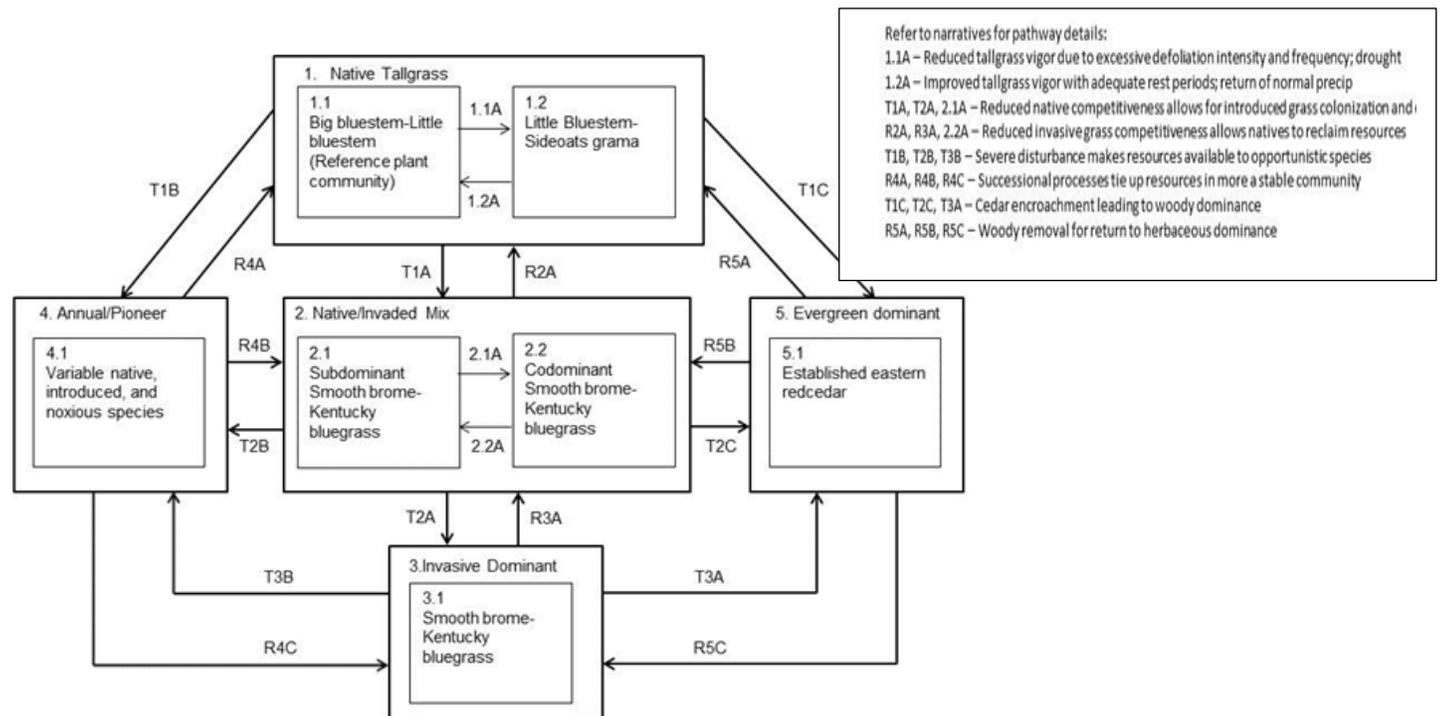
Annual Production lbs./acre	Big Bluestem / Little Bluestem Community		
	LOW	RV*	HIGH
GRASSES & GRASSLIKES	2511	2880	3194
FORBS	145	240	370
SHRUBS	0	80	180
TOTAL	2656	3200	3744

*This list of plants and their relative proportions are based on near normal years. Fluctuations in species composition and relative production may change from year to year dependent upon precipitation or other climatic fluctuations. *RV = Representative Value.

SITE: LOAMY UPLAND R102CY058NE

SITE DESCRIPTION: This site predominantly occurs on nearly level to moderately steep hills, foot slopes, till plains, and interfluves (0-20% slopes). Soils are predominantly very deep (moderately deep where residuum is present), well to somewhat excessively drained soils. The surface texture is predominantly silty clay loam, silt loam, or loam (0-19cm) and the subsurface texture is loamy.

Plant Community	Community Description	Average Production #/ac	AUM/AC	
			50% Use	60% Use
Big Bluestem / Little Bluestem	The plant community consists of 75-90% grasses and grass-like, 5-10% forbs and 1-5% shrubs. Dominant grasses include big bluestem, little bluestem, porcupinegrass, and sideoats grama. Other grasses and grass-like are Indiangrass, blue grama, prairie junegrass, and sedges. Forb species are diverse and include prairie clovers, scurfpeas, and goldenrods. Common shrubs include leadplant and New Jersey tea	3500	0.96	1.15
Little Bluestem / Sideoats Grama	This community largely resembles central Great Plains mixed-grass prairies where rainfall is more limiting and overall conditions are relatively drier. Tallgrasses remain an important component, but mid-grasses - typically sideoats grama and little bluestem - dominate site structure and function	3000	0.82	0.98
Sub-dominant Smooth Brome / Kentucky Bluegrass	Native grasses dominate the site, but introduced cool season grasses have established and can be interspersed throughout the stand. The sand may still have a native tall grass appearance, but bluegrass and/or brome grass can easily be found. Deciduous shrubs and trees may expand into areas where they did not historically persist.	2700	0.74	0.89
Co-dominant Smooth Brome / Kentucky Bluegrass	The mix of native grasses and invasive cool season grasses is relatively even. This may be a well-distributed interspersion of natives and invaders or distinct patches where invasive grasses dominate. Forb diversity and abundance is diminished.	2400	0.66	0.79
Smooth Brome / Kentucky Bluegrass	This community is typically composed of smooth brome with bluegrass interspersed among the brome tillers. Warm-season natives, if present, are sparse yet often conspicuous due to pronounced differences in growth habits and metabolic pathways	2750	0.75	0.9
Annual / Pioneer	This community is heavily dominated by annual plants that thrive in disturbed areas and often includes snow-on-the-mountain, annual ragweed, Texas croton, nightshades, and/or hoary verbena. Noxious weeds are common including plumeless, musk, and Canada thistles. Leafy spurge becomes more common northward in the MLRA.	400	0.11	0.13
Eastern Red Cedar	Cedar trees are a major component of the plant community and the woody canopy severely limits the herbaceous component.	1000	0.27	0.33



Loamy Upland - Big Bluestem / Little Bluestem Plant Community

Common Name	Scientific Name	Symbol	Lbs/acre	% Composition
GRASSES & Grasslikes				
Tall Wam Season Grasses			1575-2100	45-60
Big Bluestem	Andropogon gerardii	ANGE	700-1050	20-30
Composite Dropseed	Sporobolus compositus	SPCO16	0-175	0-5
Indiangrass	Sorghastrum nutans	SONU2	175-350	5-10
Prairie Dropseed	Sporobolus heterolepis	SPHE	0-175	0-5
Switchgrass	Panicum virgatum	PAVI2	175-350	5-10
Mid-Wam Season Grasses			875-1750	25-50
Little Bluestem	Schizachyrium scoparium	SCSC	525-1050	15-30
Purple lovegrass	Eragrostis spectabilis	ERSP	0-175	0-5
Sideoats Grama	Bouteloua curtipendula	BOCU	175-525	5-15
Short Grasses			0-350	0-10
Blue Grama	Bouteloua gracilis	BOGR2	0-350	0-10
Buffalograss	Bouteloua dactyloides	BODA2	0-175	0-5
Cool Season Grasses			300-1050	9-30
Canada Wildrye	Elymus canadensis	ELCA4	0-175	0-5
Fall Rosette Grass	Dichanthelium wilcoxianum	DIWI5	0-175	0-5
Green Needlegrass	Nassella viridula	NAVI4	0-175	0-5
Needleandthread	Hesperostipa comata	HECO26	0-350	0-10
Porcupinegrass	Hesperostipa spartea	HESP11	0-525	0-15
Prairie Junegrass	Koeleria macrantha	KOMA	0-175	0-5
Scribner's Panicum	Dichanthelium oligosanthes var. scribnerianum	DIOLS	0-175	0-5
Western Wheatgrass	Pascopyrum smithii	PASM	175-350	5-10
Grasslikes			175-350	5-10
Heavy Sedge	Carex grvida	CAGR4	0-175	0-5
Mead's Sedge	Carex meadii	CAME2	0-175	0-5
Sedge	Carex sp.	CAREX	0-175	0-5
Sun Sedge	Carex inops ssp. heliophila	CAINH2	0-175	0-5
FORBS			175-350	5-10
Aromatic Aster	Symphotrichum oblongifolium	SYOB	0-105	0-3
Baldwin's Ironweed	Vernonia baldwinii	VEBA	35-175	1-5
Black Samson Echinacea	Echinacea angustifolia	ECAN2	0-105	0-3
Candle Anemone	Anemone cylindrica	ANCY	0-105	0-3
Compassplant	Silphium laciniatum	SILA3	0-105	0-3
Cuman Ragweed	Ambrosia psilostachya	AMPS	0-105	0-3
Dotted Blazingstar	Liatris punctata	LIPU	0-150	0-3
Field Pussytoes	Antennaria neglecta	ANNE	0-105	0-3
False Boneset	Brickellia eupatorioides	BREU	0-105	0-3
Groundplum Milkvetch	Astragalus crassicaarpus	ASCR2	0-105	0-3
Hoary Verbena	Verbena stricta	VEST	0-105	0-3
Illinois ticktrefoil	Desmodium illinoense	DEIL2	0-105	0-3
Large Beardtongue	Penstemon grandiflorus	PEGR7	0-105	0-3
Large Indian Breadroot	Pediomelum esculentum	PEES	0-105	0-3
Maximilian Sunflower	Helianthus maximiliani	HEMA2	0-105	0-3
Missouri Goldenrod	Solidago missouriensis	SOMI2	35-105	1-3
Prairie Blue-eyed Grass	Sisyrinchium campestre	SICA9	0-105	0-3
Prairie Groundsel	Packera plattensis	PAPL12	0-105	0-3
Purple Locoweed	Oxytropis lambertii	OXLA3	0-105	0-3
Purple Prairie Clover	Dalea purpurea	DAPU5	0-105	0-3
Silverleaf Indian Breadroot	Pediomelum argophyllum	PEAR6	0-105	0-3
Stiff Goldenrod	Oligoneuron rigidum	OLRI	0-150	0-3
Stiff Sunflower	Helianthus pauciflorus	HEPA19	0-105	0-3
Upright Prairie Coneflower	Ratibida columnifera	RACO3	0-105	0-3
Western Marbleseed	Onosmodium bejariense var. occidentale	ONBEO	0-105	0-3
Western Yarrow	Achillea millefolium var. occidentalis	ACMIO	0-105	0-3
White Heath Aster	Symphotrichum ericoides	SYER	0-105	0-3
White Prairie Clover	Dalea canadensis	DACA7	0-105	0-3
White Sagebrush	Artemisia ludoviciana	ARLU	0-105	0-3
SHRUBS			175-350	5-10
Leadplant	Amorpha canescens	AMCA6	0-105	0-3
Jersey Tea	Ceanothus herbaceus	CEHE	0-175	0-5
Prairie Rose	Rosa arkansana	ROAR3	0-175	0-5
Smooth Sumac	Rhus glabra	RHGL	0-105	0-3

Western Snowberry	Symphoricarpos occidentalis	SYOC	0-175	0-5
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<i>Annual Production lbs./acre</i>	Big Bluestem / Little Bluestem Community		
	LOW	RV*	HIGH
GRASSES & GRASSLIKES	2100	2975	3500
FORBS	150	263	400
SHRUBS	150	262	400
TOTAL	2400	3500	4300

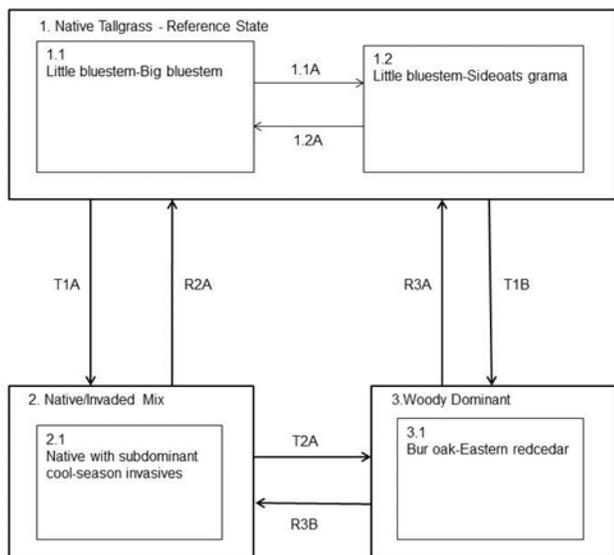
*This list of plants and their relative proportions are based on near normal years. Fluctuations in species composition and relative production may change from year to year dependent upon precipitation or other climatic fluctuations. *RV = Representative Value.

SITE: LOESS UPLANDS R102CY063NE

SITE DESCRIPTION: This site predominantly occurs on very steep loess hills and side slopes on dissected till plains, (>30% slopes) that have been dissected by geologic erosion. The slope shape is predominantly convex and generates runoff. These are predominantly very deep, well drained soils. The surface texture is predominantly silt loam or silty clay loam (0-15 cm) and the subsurface texture loamy.

Plant Community	Community Description	Average Production #/ac	AUM/AC	
			50% Use	60% Use
Little Bluestem / Big Bluestem	The plant community consists of 75-90% grasses and grass-likes, 5-10% forbs and 1-5% shrubs. Dominant grasses include little bluestem, big bluestem, sideoats grama, and plains muhly. Other grasses and grass-likes are Indiangrass, blue grama, prairie junegrass, and switchgrass. Forb species are diverse and include prairie clovers, and goldenrods, and black samson. Common shrubs include leadplant and New Jersey tea.	2400	0.66	0.79
Little Bluestem / Sideoats Grama	This community largely resembles central Great Plains mixed-grass prairies where rainfall is more limiting and overall conditions are relatively drier. Tall grasses remain an important component, but mid-grasses - typically sideoats grama and little bluestem - dominate site structure and function	2100	0.58	0.70
Native w/ Sub-dominant Cool Season Invasives	While native grasses still dominate the site, introduced cool-season species have established a foothold in the system and can be found interspersed throughout the stand. The stand may still have a native tall and mid-grass appearance overall, but bluegrass and/or brome can be easily found. Deciduous shrub/tree species may also have begun to expand into areas where they did not persist historically	1600	0.44	0.53
Bur Oak / Eastern Red Cedar	Bur oak is the most common tree species, although mulberry, ash, and black walnut can often be found in lesser numbers. A profound shift in herbaceous plants is seen as a near total loss of warm-season tall grasses towards native and/or introduced cool-season species such as Carex spp., and wild ryes, as well as smooth brome and Kentucky bluegrass if present. Eastern red cedar can also be prominent, either as a subdominant component of deciduous woodland or as the dominant with few to no interspersed deciduous.	800	0.22	0.26

R102CY063NE Loess Breaks



Loess Upland – Little Bluestem / Big Bluestem Plant Community

Common Name	Scientific Name	Symbol	Lbs/acre	% Composition
GRASSES & Grasslikes				
Tall Wam Season Grasses			480-1200	20-50
Big Bluestem	Andropogon gerardii	ANGE	360-480	15-20
Composite Dropseed	Sporobolus compositus	SPCO16	0-120	0-5
Indiangrass	Sorghastrum nutans	SONU2	0-240	0-10
Prairie Sandreed	Calamovilfa longifolia	CALO	0-120	0-5
Switchgrass	Panicum virgatum	PAVI2	0-120	0-5
Mid-Wam Season Grasses			840-1560	35-65
Little Bluestem	Schizachyrium scoparium	SCSC	480-640	20-35
Plains Muhly	Muhlenbergia cuspidata	MUCU3	120-240	5-10
Sideoats Grama	Bouteloua curtipendula	BOCU	240-480	10-20
Short Grasses			24-240	1-10
Blue Grama	Bouteloua gracilis	BOGR2	24-120	1-5
Buffalograss	Bouteloua dactyloides	BODA2	0-120	0-5
Cool Season Grasses			24-240	1-10
Canada Wildrye	Elymus canadensis	ELCA4	0-120	0-5
Needleandthread	Hesperostipa comata comata	HECO26	0-120	0-5
Porcupinegrass	Hesperostipa spartea	HESP11	0-120	0-5
Prairie Junegrass	Koeleria macrantha	KOMA	0-120	0-5
Scribner's Panicum	Dchanthelium oligosanthes var. scribnerianum	DIOLS	0-120	0-5
Grasslikes			24-240	1-10
Heavy Sedge	Carex gravida	CAGR4	0-120	0-5
Long-stolon Sedge	Carex inops	CAIN9	0-72	0-3
Sedge	Carex sp.	CAREX	24-120	1-5
Shortbeak Sedge	Carex brevior	CABR10	0-120	0-5
FORBS			120-240	5-10
Baldwin's Ironweed	Vernonia baldwinii	VEBA	0-120	0-5
Black Samson Echinacea	Echinacea angustifolia	ECAN2	0-120	0-5
Cumin Ragweed	Ambrosia psilostachya	AMPS	0-120	0-5
Dotted Blazingstar	Liatris punctata	LIPU	0-120	0-5
Field Pussytoes	Antennaria neglecta	ANNE	0-72	0-3
Large Beardtongue	Penstemon grandiflorus	PEGR7	0-120	0-5
Missouri Goldenrod	Solidago missouriensis	SOMI2	24-120	1-5
Nineanther Prairie Clover	Dalea enneandra	DAEN	0-72	0-3
Prairie Groundsel	Packera plattensis	PAPL12	0-120	0-5
Purple Locoweed	Oxytropis lambertii	OXLA3	0-120	0-5
Purple Prairie Clover	Dalea purpurea	DAPU5	0-120	0-5
Rush Skeletonplant	Lygodesmia juncea	LYJU	0-120	0-5
Scarlet Beeblossom	Gaura coccinea	GACO5	0-72	0-3
Silverleaf Indian Breadroot	Pediomelum argophyllum	PEAR6	0-120	0-5
Stiff Goldenrod	Oligoneuron rigidum	OLRI	0-120	0-5
Upright Prairie Coneflower	Ratibida columnifera	RACO3	0-120	0-5
White Heath Aster	Symphyotrichum ericoides	SYER	0-120	0-5
White Prairie Clover	Dalea candida	DACA7	0-120	0-5
SHRUBS			120-240	5-10
Leadplant	Amorpha canescens	AMCA6	0-120	0-5
Prairie Rose	Rosa arkansana	ROAR3	0-120	0-5
Smooth Sumac	Rhus glabra	RHGL	0-120	0-5
Western Snowberry	Symphoricarpos occidentalis	SYOC	0-120	0-5
Other Shrubs		2SHRUB	0-120	0-5

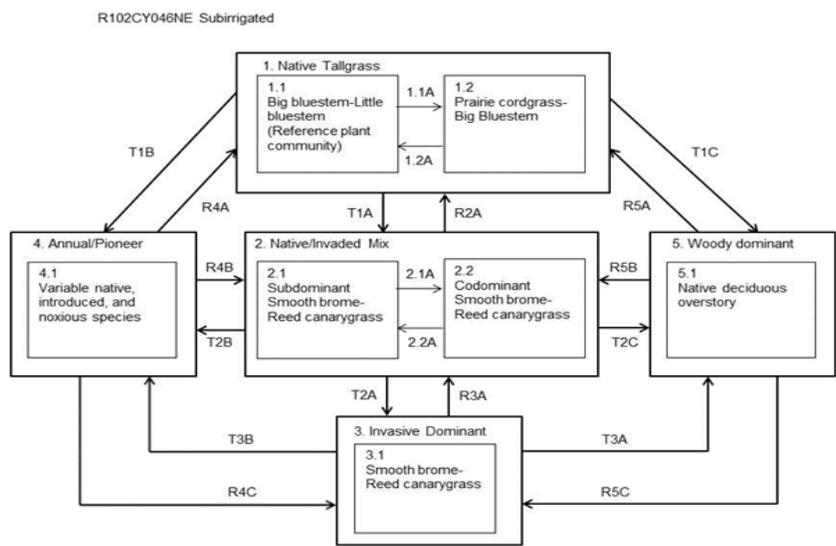
Annual Production lbs./acre	Little Bluestem / Big Bluestem Community		
	LOW	RV*	HIGH
GRASSES & GRASSLIKES	1398	2040	2378
FORBS	105	180	275
SHRUBS	105	180	275
TOTAL	1608	2400	2928

*This list of plants and their relative proportions are based on near normal years. Fluctuations in species composition and relative production may change from year to year dependent upon precipitation or other climatic fluctuations. *RV = Representative Value.

SITE: SUBIRRIGATED R102CY046NE

SITE DESCRIPTION: This site has a seasonally high water table from 1.5 to 3.5 feet, with additional moisture received from higher adjacent areas as run-on. The site occurs on nearly level to gently sloping flood plains, interdunes and swales. Slopes range from 0-3%. The soils are very deep, somewhat poorly to moderately well drained soils. Surface texture is predominately silt loam, loam or silty clay loam.

Plant Community	Community Description	Average Production #/ac	AUM/AC	
			50% Use	60% Use
Big Bluestem / Little Bluestem	The plant community consists of 80-95% grasses and grass-like, 5-10% forbs and 0-5% shrubs. Dominant grasses include big bluestem, Indiangrass, and switchgrass. Other grasses and grass-like are little bluestem, sideoats grama, western wheatgrass, and sedges. Forb species are diverse and often include western ragweed and Missouri goldenrod.	5100	1.40	1.68
Prairie Cordgrass / Big Bluestem	Prairie cordgrass has replaced big bluestem as the dominant species. Other species, such as reed canarygrass, little bluestem, and western wheatgrass have also increased. While still within the range of natural variability, energy capture, nutrient cycling, and hydrology are not functioning at their full potential relative to the reference condition.	3500	0.96	1.35
Sub-dominant Smooth Bromegrass / Reed Canarygrass	Native warm-season grasses still dominate the site. Introduced cool-season grasses are found interspersed throughout the site. The stand may have the appearance of a native, tall-grass prairie but smooth bromegrass and / or reed canarygrass can easily be found.	2550	0.70	0.84
Co-dominant Smooth Bromegrass / Reed Canarygrass	Native warm-season grasses are still present in significant amounts, but introduced cool-season grasses make up nearly 50% of the total grass production. The introduced grasses can be scattered throughout or in distinct patches.	2000	0.55	0.66
Smooth Bromegrass / Reed Canarygrass	Introduced cool-season grasses (smooth bromegrass and reed canary grass or Kentucky bluegrass) dominate the plant community. Native species if present are present in negligible amounts. The community may be a monoculture or mixture of introduced cool season grasses.	2100	0.58	0.69
Annual / Pioneer	The dominant species are annual plants such as annual ragweed, hoary verbena, and amaranths. Noxious weeds may invade including musk thistle, Canada thistle and leafy spurge.	1000	0.27	0.33
Native Deciduous Overstory	Deciduous woody species have encroached and established. Common species include maples, cottonwood, box elder, green ash, and swamp oak. Eastern red cedar may also establish, but it is not usually as dominant as seen on drier sites.	1000	0.27	0.33



Subirrigated – Big Bluestem / Little Bluestem Plant Community

Common Name	Scientific Name	Symbol	Lbs/acre	% Composition
GRASSES & Grasslikes				
Tall Warm Season Grasses			2295-3825	45-75
Big Bluestem	Andropogon gerardii	ANGE	1275-2040	25-40
Indiangrass	Sorghastrum nutans	SONU2	510-1020	10-20
Prairie Cordgrass	Spartina pectinata	SPPE	255-510	5-10
Switchgrass	Panicum virgatum	PAVI2	255-765	5-15
Mid-Warm Season Grasses			765-1785	15-35
Little Bluestem	Schizachyrium scoparium	SCSC	765-1020	15-20
Sideoats Grama	Bouteloua curtipendula	BOCU	0-510	0-10
Cool Season Grasses			255-1020	5-20
Canada Wildrye	Elymus canadensis	ELCA4	0-255	0-5
Foxtail Barley	Hordeum jubatum	HOJU	0-255	0-5
Needleandthread	Hesperostipa comata	HECO26	0-105	0-2
Porcupinegrass	Hesperostipa spartea	HESP11	0-255	0-5
Prairie Junegrass	Koeleria macrantha	KOMA	0-105	0-2
Prairie Wedgescale	Sphenopholis obtusata	SPOB	0-105	0-2
Reed Canarygrass	Phalaris arundinacea	PHAR3	0-255	0-5
Scribner's Panicum	Dchanthelium oligosanthes var. scribnerianum	DIOLS	0-105	0-2
Western Wheatgrass	Pascopyrum smithii	PASM	0-255	0-5
Grass-likes			255-510	5-10
Awlfruit Sedge	Carex stipata	CAST5	0-255	0-5
Broom Sedge	Carex scoparia	CASC11	0-255	0-5
Common Threesquare	Schoenoplectus pungens	SCPU10	0-255	0-5
Cloaked Bulrush	Scirpus pallidus	SCPA8	0-255	0-5
Rush	Juncus sp.	JUNCU	0-255	0-5
Sedge	Carex sp.	CAREX	0-255	0-5
Other Graminoids		2GRAM	51-255	1-5
FORBS			255-510	5-10
American Licorice	Glycyrrhiza lepidota	GLLE3	0-255	0-5
Blackeyed Susan	Rudbeckia hirta	RUHI2	0-255	0-5
Cuman Ragweed	Ambrosia psilostachya	AMPS	0-255	0-5
False Boneset	Brickellia eupatorioides	BREU	0-105	0-2
Giant Goldenrod	Solidago gigantea	SOGI	0-255	0-5
Maximilian Sunflower	Helianthus maximiliani	HEMA2	0-255	0-5
Onion	Allium sp.	ALLIU	0-105	0-2
Pennsylvania smartweed	Polygonum pensylvanicum	POPE2	0-255	0-5
Prairie Bundleflower	Desmanthus illinoensis	DEIL	0-255	0-5
Scouringrush Horsetail	Equisetum hyemale	EQHY	0-255	0-5
Stiff Goldenrod	Oligoneuron rigidum	OLRI	0-105	0-2
Stiff Sunflower	Helianthus pauciflorus	HEPA19	0-255	0-5
Swamp Verbena	Verbena hastata	VEHA2	0-255	0-5
Upright Prairie Coneflower	Ratibida columnifera	RACO3	0-105	0-2
Violet Prairie Clover	Dalea purpurea	DAPU5	0-105	0-2
Virginia Strawberry	Fragaria virginiana	FRVI	0-105	0-2
White Prairie Clover	Dalea candida	DACA7	0-105	0-2
White Heath Aster	Symphyotrichum ericoides	SYER	0-105	0-2
White Sagebrush	Artemisia ludoviciana	ARLU	0-105	0-2
Other Perennial Forbs		2FP	0-255	0-5
SHRUBS			0-255	0-5
Eastern Poison Ivy	Toxicodendron radicans	TORA2	0-175	0-3
Leadplant	Amorpha canescens	AMCA6	0-255	0-5
Prairie Rose	Rosa arkansana	ROAR3	0-175	0-3
Western Snowberry	Symphoricarpos occidentalis	SYOC	0-255	0-5
Other Shrubs		2SHRUB	0-255	0-5

Annual Production lbs./acre	Big Bluestem / Little Bluestem Community		
	LOW	RV*	HIGH
GRASSES & GRASSLIKES	4115	4590	4710
FORBS	220	382	610
SHRUBS	0	128	290
TOTAL	4335	5100	5610

MLRA 102C PLANT LIST

(The following plants are listed in the MLRA-102C plant tables and are common in the MLRA. This is not a complete list of all plants that may be found in the MLRA.)

<i>Grasses</i>			
<i>Common Name</i>	<i>Scientific Name</i>	<i>SYMBOL</i>	<i>Other Common Names</i>
Big Bluestem	Andropogon gerardii	ANGE	
Blue Grama	Bouteloua gracilis	BOGR2	
Buffalograss	Bouteloua dactyloides	BODA2	
Canada Wildrye	Elymus canadensis	ELCA4	
Composite Dropseed	Sporobolus compositus var. compositus	SPCOC2	<i>Tall Dropseed</i>
Dropseed	Sporobolus sp.	SPORP	
Fall Rosette Grass	Dichanthelium wilcoxianum	DIWI5	
Foxtail Barley	Hordeum jubatum	HOJU	
Green Needlegrass	Nassella viridula	NAVI4	
Hairy Grama	Bouteloua hirsuta	BOHI2	
Indiangrass	Sorghastrum nutans	SONU2	
Kentucky Bluegrass	Poa pratensis	POPR	
Little Bluestem	Schizachyrium scoparium	SCSC	
Needleandthread	Hesperostipa comata ssp. comata	HECOC	
Plains Muhly	Muhlenbergia cuspidata	MUCU3	
Porcupinegrass	Hesperostipa spartea	HESP11	
Prairie Dropseed	Sporobolus heterolepis	SPHE	
Prairie Cordgrass	Spartina pectinata	SPPE	
Prairie Junegrass	Koeleria macrantha	KOMA	
Prairie Wedgescale	Sphenopholis obtusata	SPOB	
Prairie Sandreed	Calamovilfa longifolia	CALO	
Purple Lovegrass	Eragrostis spectabilis	ERSP	
Reed Canarygrass	Phalaris arundinacea	PHAR3	
Scribner's Panicum	Dichanthelium oligosanthes var. scribnerianum	DIOLS	
Sideoats Grama	Bouteloua curtipendula	BOCU	
Smooth Bromegrass	Bromus inermis	BRIN2	
Switchgrass	Panicum virgatum	PAVI2	
Western Wheatgrass	Pascopyrum smithii	PASM	
<i>Grasslikes</i>			
<i>Common Name</i>	<i>Scientific Name</i>	<i>SYMBOL</i>	<i>Other Common Names</i>
Awlfruit Sedge	Carex stipata	CAST5	
Broom Sedge	Carex scoparia	CASC11	
Cloaked Bulrush	Scirpus pallidus	SCPA8	
Common Threesquare	Schoenoplectus pungens	SCPU10	
Heavy Sedge	Carex gravida	CAGR4	
Long-stolon Sedge	Carex inops	CAIN9	
Mead's Sedge	Carex meadii	CAME2	
Rush	Juncus sp.	JUNCU	
Sedge	Carex sp.	CAREX	
Shortbeak Sedge	Carex brevior	CABR10	
Sun Sedge	Carex inops ssp. heliophila	CAINH2	
<i>Forbs</i>			

<i>Common Name</i>	<i>Scientific Name</i>	<i>SYMBOL</i>	<i>Other Common Names</i>
American Licorice	Glycyrrhiza lepidota	GLLE3	
Aromatic Aster	Symphyotrichum oblongifolium	SYOB	
Baldwin's Ironweed	Vernonia baldwinii	VEBA	
Blackeyed Susan	Rudbeckia hirta	RUHI2	
Black Samson Echinacea	Echinacea angustifolia	ECAN2	
Canada Goldenrod	Solidago canadensis	SOCA6	
Canadian Milkvetch	Astragalus canadensis	ASCA11	
Candle Anemone	Anemone cylindrica	ANCY	
Compassplant	Siphium laciniatum	SILA3	
Cuman Ragweed	Ambrosia psilostachya	AMPS	<i>Western Ragweed</i>
Cutleaf Evening Primrose	Oenothera laciniata	OELA	
Dotted Blazingstar	Liatris punctata	LIPU	<i>Dotted Gayfeather</i>
False Boneset	Brickellia eupatoriodes	BREU	
Field Pussytoes	Antennaria neglecta	ANNE	
Giant Goldenrod	Solidago gigantea	SOGI	
Groundplum Milkvetch	Astragalus crassicaulus	ASCR2	
Hoary Verbena	Verbena stricta	VEST	<i>Woolly Verbena or Vervain</i>
Illinois Ticktrefoil	Desmodium illinoense	DEIL2	
Maximilian Sunflower	Helianthus maximiliani	HEMA2	
Large Beardtongue	Penstemon grandiflorus	PEGR7	
Large Indian Breadroot	Pediomelum esculentum	PEES	
Maximilian Sunflower	Helianthus maximiliani	HEMA2	
Missouri Goldenrod	Solidago missouriensis	SOMI2	
Meadow Garlic	Allium canadense	ALCA3	
Nineanther Prairie /Clover	Dalea enneandra	DAEN	
Onion	Allium sp.	ALLIU	
Pennsylvania Smartweed	Polygonum pennsylvanicum	POPE2	
Prairie Blue-eyed Grass	Sisyrinchium campestre	SICA9	
Prairie Bundleflower	Desmanthus illinoensis	DEIL	<i>Illinois Bundleflower</i>
Prairie Groundsel	Packera plattensis	PAPL12	<i>Platte's Groundsel</i>
Purple Locoweed	Oxytropis lambertii	OXLA3	<i>Lambert's Crazyweed</i>
Purple Poppy Mallow	Callirhoe involucrata	CAIN2	
Purple Prairie Clover	Dalea purpurea	DAPU5	<i>Violet Prairie Clover</i>
Rush Skeletonplant	Lygodesmia juncea	LYJU	
Scarlet Beeblossom	Gaura coccinea	GACO5	<i>Scarlet gaura</i>
Scouringrush Horsetail	Equisetum hyemale	EQHY	
Silverleaf Indian breadroot	Pediomelum argophyllum	PEAR6	<i>Silverleaf Scurfpea</i>
Snow-on-the-Mountain	Euphorbia marginata	EUMA8	
Stiff Goldenrod	Oligoneuron rigidum	OLRI	
Stiff Sunflower	Helianthus pauciflorus	HEPA19	
Swamp Verbena	Verbena hastata	VEHA2	
Tall Blazingstar	Liatris aspera	LIAS	
Upright Prairie Coneflower	Ratibida columnifera	RACO3	
Virginia Strawberry	Fragaria virginiana	FRVI	
Western Marbleseed	Onosmodium bejariense var. occidentale	ONBEO	
Western Yarrow	Achillea millefolium var. occidentalis	ACMIO	
White Heath Aster	Symphyotrichum ericoides	SYER	
White Prairie Clover	Dalea canadensis	DACA7	

TREES & SHRUBS

<i>Common Name</i>	<i>Scientific Name</i>	<i>Symbol</i>	<i>Other Common Names</i>
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Eastern Poison Ivy	<i>Toxicodendron radicans</i>	TORA2	
Jersey Tea	<i>Ceanothus herbaceus</i>	CEHE	
Leadplant	<i>Amorpha canescens</i>	AMCA6	
Prairie Rose	<i>Rosa arkansana</i>	ROAR3	
Smooth Sumac	<i>Rhus glabra</i>	RHGL	
Western Snowberry	<i>Symphoricarpos occidentalis</i>	SYOC	