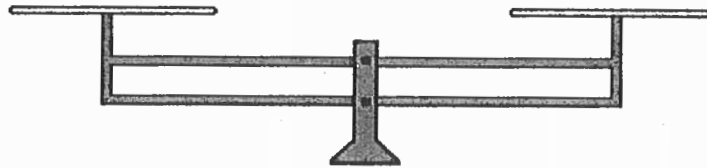


Kansas Prescribed Grazing Plan

FORAGE PRODUCED

ANIMAL NEEDS



FINDING THE BALANCE





**Prescribed Grazing Plan
(Goals and Objectives)**

USDA-NRCS
KS-ECS-528

Name: Ivan Berger
Legal Description: NE 32-4-6
Ident. No.: 040607s2

Date: 8/27/2010
County: Washington/MS
Planner: JW Henry

Goals & Objectives should be clearly stated so the land manager as well as the conservation planner can address resource concerns based on these overall goals and objectives. These goals and objectives should be reviewed throughout the planning process as well as during implementation of the plan to assure that they are being met.

Landowner Goals:

Maintain and improve high quality rangelands with a prescribed grazing system and enrollment in the Grassland Reserve Program.

Planning Considerations:

Soil:

Soils are erosive and will need adequate vegetative cover to maintain good production.

Water:

Ponds will be used for stockwater. Clean water will improve livestock performance.

Air:

Plants (native):

Native plants will need rest during the growing season to maintain health and vigor.

Plants (noxious/invading):

Woody invaders include buckbrush, smooth sumac, dogwood, osage orange, honey locust, and cedar. Cool season grass invaders include Kentucky bluegrass, smooth brome and tall fescue.

Animals (Livestock):

Prescribed grazing will be needed to provide adequate forage for sustainable grazing.

Animals (Wildlife):

Implementing this plan will maintain quality habitat for grassland species.





**Prescribed Grazing Plan
(Livestock-Forage Balance Data Form)**

USDA-NRCS
KS-ECS-528

Name: Ivan Berger
Legal Description: NE 32-4-6

Date: 8/27/2010
County: Washington/MS

Ident. No: 040607s2
Planner: JW Henry

Forage Available

Precipitation: Average

Lbs.

Forage Type	Field Number	Lbs.		Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Tall Grass Prairie	1a	12775	%	0%	5%	30%	33%	18%	10%	4%	0%	0%	0%	0%	0%
			Lbs.	0	639	3833	4216	2300	1278	511	0	0	0	0	0
Tall Grass Prairie	1c	52012.5	%	0%	5%	30%	33%	18%	10%	4%	0%	0%	0%	0%	0%
			Lbs.	0	2601	15804	17164	9362	5201	2081	0	0	0	0	0
Tall Grass Prairie	1d	18250	%	0%	5%	30%	33%	18%	10%	4%	0%	0%	0%	0%	0%
			Lbs.	0	913	5475	6023	3285	1825	730	0	0	0	0	0
Smooth Bromegrass-Spring (with N)	2	37412.5	%	6%	19%	63%	12%	0%	0%	0%	0%	0%	0%	0%	0%
			Lbs.	2245	7108	23570	4490	0	0	0	0	0	0	0	0
		0	%												
		0	Lbs.												
		0	%												
		0	Lbs.												
		0	%												
		0	Lbs.												
		0	%												
		0	Lbs.												
Total Forage Available*		120454		2245	11261	48482	31893	14947	8304	3322	0	0	0	0	0

Forage Need

Livestock	Planned Number	Animal Size (Lbs.)	Lbs. per Month	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Bred Cows	18	1200	19710	0	0	19710	19710	19710	19710	19710	19710	0	0	0	0
February Calf	0			0	0	0	0	0	0	0	0	0	0	0	0
Bulls	0	1600	0			0	0								
Total Forage Need		118260		0	0	19710	19710	19710	19710	19710	19710	0	0	0	0
Substitute Feed 1	Total Feed	0													
Substitute Feed 2	Total Feed	0													
Substitute Feed 3	Total Feed	0													
Difference in Available vs Need (Each Month)		2194		2245	11261	28772	12183	(4763)	(11406)	(16388)	(19710)	0	0	0	0
Accumulative Forage Available		120454		2245	13506	61988	93881	108828	117132	120454	120454	120454	120454	120454	120454
Accumulative Animal Need		118260		0	0	19710	39420	59130	78840	98550	118260	118260	118260	118260	118260
Difference in Available vs Need (Accumulative)		2194		2245	13506	42278	54461	49698	38292	21904	2194	2194	2194	2194	2194

Notes:

*Calculations on this page are all automated and rounded to the nearest whole number. Due to this, the Total Forage Available amount may slightly vary from the Total Forage Available or Total AUMs on other plan pages.



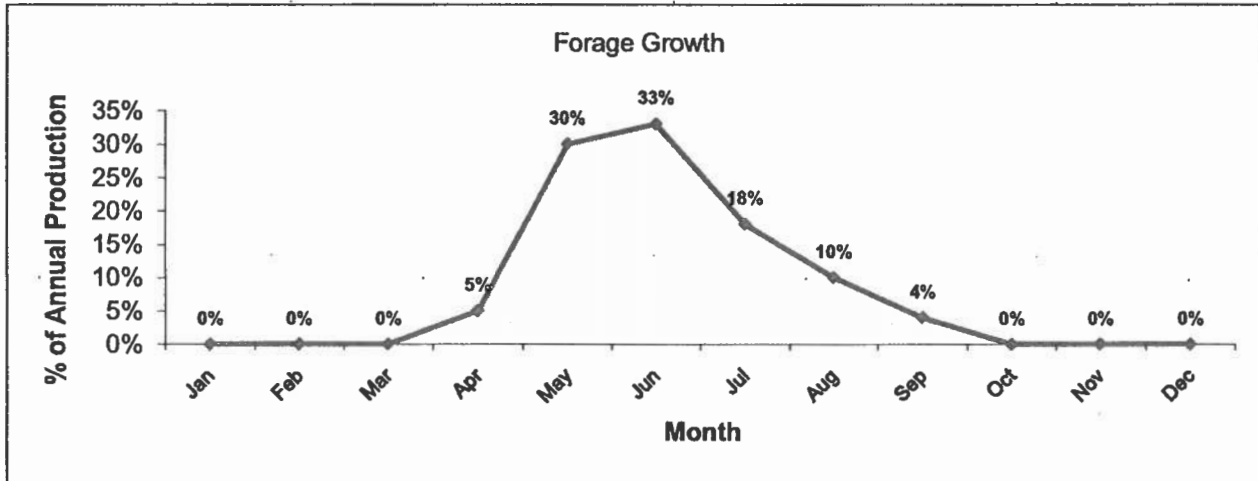
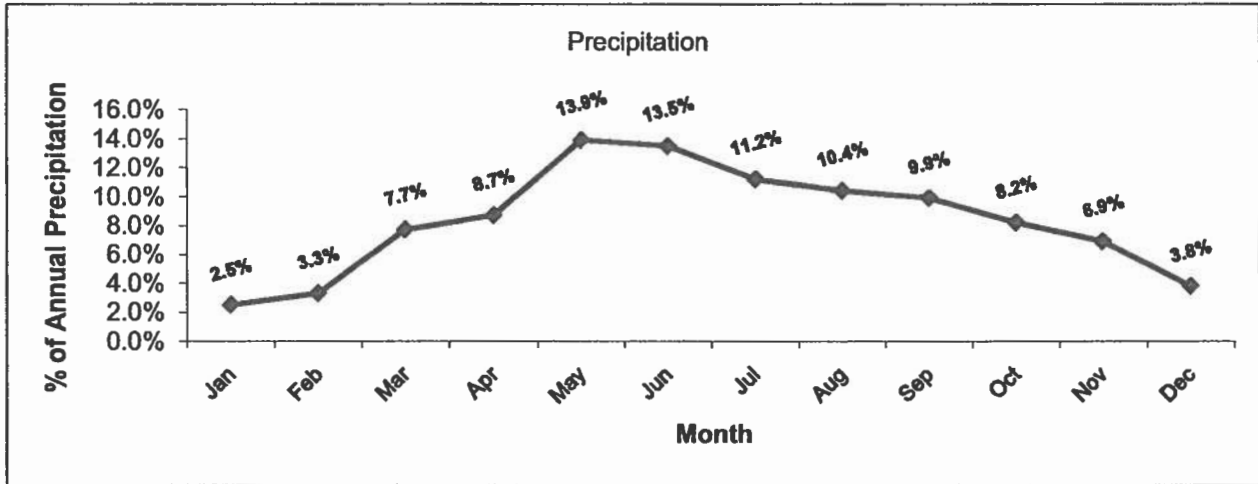


Prescribed Grazing Plan (Contingency Plan)

USDA-NRCS
KS-ECS-528

- November 1**
- Drought Indicator - Less than 80% of the average annual precipitation indicates the beginning of a drought for next season unless the winter is exceptionally wet.
 - Forage Management - End of growing season (no significant forage growth occurs after this date). Remember April 1st residue goal if winter grazing will occur.
 - Contingency Plan Trigger - Measure available forage and calculate winter grazing herd days. Evaluate grazing prescription objectives for next year.

Producer:
 Decision:



* Keeping records of precipitation events and documenting grass production on critical dates during a growing season allows producers the opportunity to make adjustments in grazing plans and avoid damaging their grazing land resource. After being grazed, grasses use the remaining leaf area and stored energy reserves to produce new leaf tissue and build roots. Critical times are during initial spring growth, during regrowth after leaf removal from a grazing event, and during the last 60 days of the growing season. The more severely a grass plant is defoliated the slower the plant will recover to produce additional leaves and roots and build energy reserves. During drought conditions, a plant that has continually (during one or several years) suffered severe leaf removal is less capable of surviving prolonged drought. Write down your contingency plan if precipitation or forage production should become limiting and don't forget to write down the decisions you made based on actual conditions so future contingency plans can be improved.



Grassland Reserve Program

Customer(s): IVAN R. BERGER
District: WASHINGTON COUNTY CONSERVATION DISTRICT
Legal: NE 32-4-6 (Marshall Co)

Field Office: WASHINGTON SERVICE CENTER
Agency: NRCS
Assisted By: EASEMENT PROGRAMS TEAM
State and County: KS, MARSHALL



Legend

-  Gate
-  Ingress-Egress
-  GRP_boundary
-  Incidental_Area
-  psss_a_ks117



GRASSLAND RESERVE PROGRAM
Baseline Inventory Report

IVAN R. BERGER and DELVIN L. BERGER
2112 1ST RD
WATERVILLE, KS
66548

GENERAL

Ivan R. Berger and Delvin L. Berger shall enroll 98.1 acres into the Grassland Reserve Program (GRP) administered by the United States Department of Agriculture' Natural Resources Conservation Service (NRCS). GRP is a voluntary program which will allow Ivan R. Berger and Delvin L. Berger and NRCS to conserve, restore and enhance certain grasslands and rangelands through the acquisition of a permanent conservation easement. The purpose of this Report is to document the characteristics, attributes, functions, and conservation values of the rangeland and other lands identified by the GRP conservation easement deed, including critical habitat for declining populations of grassland dependent birds and animals. The Report also describes and identifies the location of those facilities, roads and structures that are included as part of the easement area and are present at the time of the easement acquisition. The facilities may be maintained by the landowner and assigns for purposes of conducting livestock-related operations. The landowner has agreed to conserve and manage these lands according to a GRP Grassland Resources Conservation Plan developed by the landowner and NRCS.

Ivan R. Berger and Delvin L. Berger will enroll 98.1 acres of land into GRP consisting of 91.1 acres of tall grass prairie with the remaining 7.0 acres consisting of incidental woodlands.

The Ivan R. Berger and Delvin L. Berger property is located from Waterville, KS, south 1.5 miles on Hwy 77, west 1.0 miles on Wildcat Rd. The current livestock operation for the ranch includes summer grazing of 18 bred cows for fall calving. The ranch also supports a small population of white-tail deer. A population of prairie chickens, a declining grassland dependent species, has been observed on the ranch.

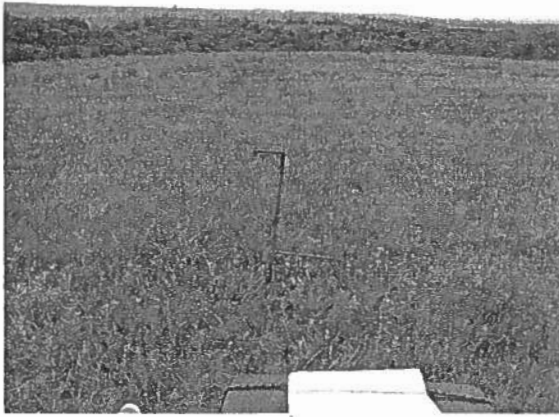
In past years the property has been managed as 3 pastures. The pastures are grazed in a rotation with cattle going in July 1st and out October 31st. A moderate stocking rate is used. The pastures are in excellent range condition with an upward trend. In the Range Health Evaluation the three attributes of soil/site stability, hydrologic function, and biotic integrity all rated in the "none to slight" category indicating high quality rangeland. The three pastures are grazed in conjunction with 25 acres of highly productive smooth brome grass that is utilized in the spring and early summer. Prescribed burning is done at least every 3 years to control invasive species. Mechanical and chemical brush management has been done in recent years to control woody species.



Landscape and Soils Site Description

The majority of the landscape contains slopes of 10-20% or greater. The soils are predominately silty loams with a land capability class of VIe. Vegetative production is limited by low available water holding capacity and rapid runoff. All the offered acres of the ranch produce a plant community typical of a tall grass prairie in near Historic Climax Condition. Ecological site is Limy Upland.

VEGETATIVE RESOURCE



Location of transect #18 in pasture 1D. Range condition class is "Excellent" with 79% of the Historic Climax species present.

GPS Location:
-96.771770 39.667266



Location of transect #20 in pasture 1C. Range condition class is "Excellent" with 83% of the Historic Climax species present.

GPS Location:
-96.774060 39.662069





Location of transect #19 in pasture 1C. Range condition class is "Excellent" with 81% of the Historic Climax species present.

GPS Location:
-96.771088 39.663812



Location of transect #21 in pasture 1A. Range condition class is "Excellent" with 76% of the Historic Climax species present.

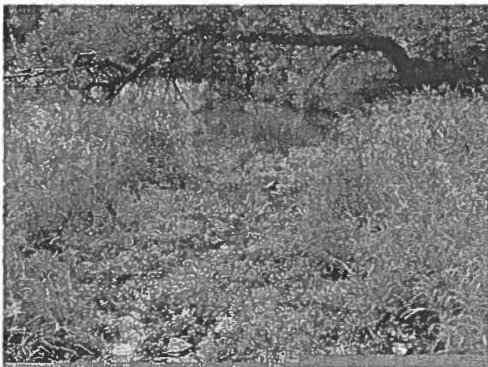
GPS Location:
-96.778401 39.663952

INVASIVE SPECIES

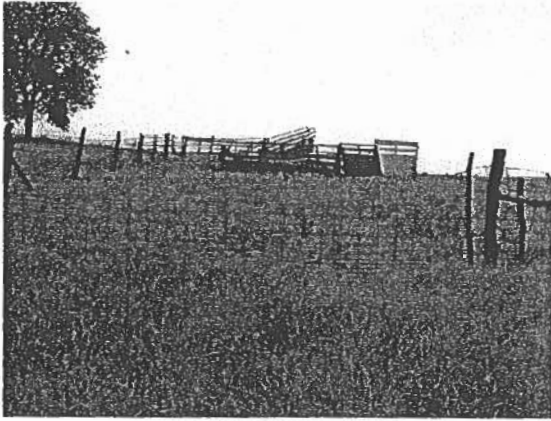


Cedar encroachment in pasture 1D. Smaller cedars are controlled with prescribed burning.

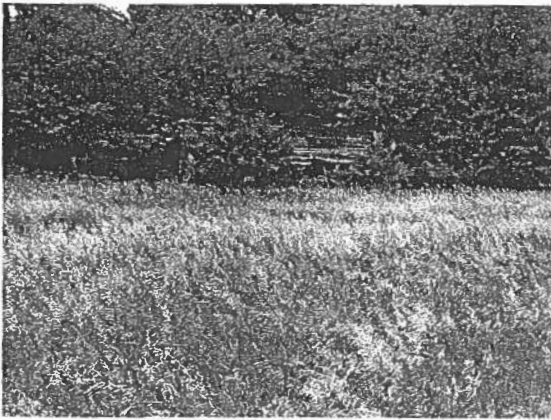
WATER RESOURCES



Stock water is supplied by perennial streams that are available to all 3 pastures.



Corral and livestock working facilities in the northeast corner of pasture 1D.



Old abandon barn in pasture 1D.

There are no other buildings, structures or improvements on the offered acres.

X

John W. Henry
Rangeland Management Specialist

X *Ivan R. Berger*

Ivan R. Berger
Landowner

X *Delvin L. Berger*

Delvin L. Berger
Landowner





Prescribed Grazing Plan
(Signature Page)

USDA-NRCS
KS-ECS-528

Name: Ivan Berger
Legal Description: NE 32-4-6
Ident. No: 040607s2

Date: 8/27/2010
County: Washington/MS
Planner: JW Henry

Check Those Documents that have been discussed with the producer.

- Goals
- Field Inventory
- Stocking Rate Calculator
- Rest Calculator
- Balance Sheet
- Rotation Schedule
- Contingency Plan
- Monitoring Plan

Technical Service Provider

J.W. Henry
Layout By
J.W. Henry
Designed By
Don Minge
Checked By
J.W. Henry
Approved By

8-27-10
Date
8-27-10
Date
8/27/10
Date
8-27-10
Date

Producer's Statement

The design of this practice has been discussed with me, and I concur with the design. No substitutions are allowed without the approval of the technical service provider.

Ivan R Berger 9-1-10
Signature Date
Ivan R Berger 9-1-10
Signature Date

Certification

This applied practice meets Kansas standards and specifications.

Technical Service Provider

Date

This practice has been applied as designed.

Producer

Date

