MANAGEMENT SYSTEM TEMPLATE

B. CONSERVATION MANAGEMENT SYSTEM OPTIONS WORKSHEET

1	STATE	OKLAHOMA
2	FIELD OFFICE	Antlers, Atoka, Durant, Hugo, Idabel, Tishomingo
3	MLRA	133B
4.	COMMON RESOURCE AREA (CRA)	133B.40.001
5	RESOURCE INTERPRETATIONS	*see Section II FOTG for interpretations*
5.1	SOIL	FOTG, SECTION I - EROSION PREDICTION FOTG, SECTION II - SOILS LEGENDS FOTG, SECTION II - SOIL DESCRIPTIONS - NONTECHNICAL FOTG, SECTION II - SOIL DESCRIPTIONS - TECHNICAL FOTG, SECTION II - HYDRIC SOIL INTERPRETATIONS FOTG, SECTION II - ENGINEERING INTERPRETATIONS FOTG, SECTION III - RESOURCE MANAGEMENT SYSTEMS - SOIL FOTG, SECTION V-A-1 - EFFECTS FOR CMS FORMULATION - SOIL FOTG, SECTION V-A-2 - EFFECTS FOR GUIDANCE DOCUMENTS
5.2	WATER	FOTG, SECTION I - CLIMATIC DATA FOTG, SECTION I - STATE/LOCAL LAWS, ORDINANCES, REGULATIONS FOTG, SECTION II - WATER QUANTITY AND QUALITY INTERPRETATIONS FOTG, SECTION III - RESOURCE MANAGEMENT SYSTEMS - WATER FOTG, SECTION V-A-1 - EFFECTS FOR CMS FORMULATION - WATER FOTG, SECTION V-A-2 - EFFECTS FOR GUIDANCE DOCUMENTS
5.3	AIR	FOTG, SECTION I - CLIMATIC DATA FOTG, SECTION I - STATE/LOCAL LAWS, ORDINANCES, REGULATIONS FOTG, SECTION III - RESOURCE MANAGEMENT SYSTEMS - AIR FOTG, SECTION V-A-1 - EFFECTS FOR CMS FORMULATION - AIR FOTG, SECTION V-A-2 - EFFECTS FOR GUIDANCE DOCUMENTS
5.4	PLANT	FOTG, SECTION I - THREATENED AND ENDANGERED SPECIES FOTG, SECTION II - RANGELAND, GRAZED FORESTLAND, NATIVE PASTURELAND INTERPRETATIONS FOTG, SECTION III - RESOURCE MANAGEMENT SYSTEMS - PLANTS FOTG, SECTION V-A-1 - EFFECTS FOR CMS FORMULATION - PLANTS FOTG, SECTION V-A-2 - EFFECTS FOR GUIDANCE DOCUMENTS
5.5	ANIMAL	FOTG, SECTION I - THREATENED AND ENDANGERED SPECIES FOTG, SECTION II - WILDLIFE INTERPRETATIONS FOTG, SECTION III - RESOURCE MANAGEMENT SYSTEMS - ANIMALS FOTG, SECTION V-A-1 - EFFECTS FOR CMS FORMULATION - ANIMALS FOTG, SECTION V-A-2 - EFFECTS FOR GUIDANCE DOCUMENTS FOTG, SECTION V-B-1 - EFFECTS FOR DECISIONMAKING - PRODUCER EXPERIENCES
5.6	HUMAN	FOTG, SECTION I - COST DATA FOTG, SECTION I - CULTURAL RESOURCE INFORMATION FOTG, SECTION I - STATE/LOCAL LAWS, ORDINANCES, REGULATIONS FOTG, SECTION V-B-1 - EFFECTS FOR DECISIONMAKING - PRODUCER EXPERIENCES
6	HYDROLOGIC UNIT	
7	SYSTEM TEMPLATE LABEL	SAIZ1
8	SYSTEM NAME	NATIVE OR NATURALIZED PASTURE
9	PLANNING PHASE	NON-BENCHMARK
10	PLANNING LEVEL	RMS
11	NRCS LANDUSE	NATIVE PASTURE

12	PLANNED CONSERVATION PRACTICES	*enter code / name of practice*
	1. 314 - Brush Management 2. 338 - Prescribed Burning 3. 342 - Critical Area Planting 4. 362 - Diversion 5. 378 - Pond 6. 382 - Fencing 7. 391 - Riparian Forest Buffer 8. 394 - Firebreak 9. 410 - Grade Stabilization Structure 10. 472 - Use Exclusion	11. 512 - Pasture and Hayland Planting 12. 516 - Pipeline 13. 528-A - Prescribed Grazing 14. 550 - Range Seeding 15. 590 - Nutrient Management 16. 595 - Pest Management 17. 614 - Trough or Tank 18. 642 - Well 19. 645 - Wildlife Upland Habitat Management

13	SYSTEM NARRATIVE	*describe how the practices work together as a system*
	By properly grazing forage and establishing quality native grass plants where quality forage is lacking, low quality invader and increaser native grass species can be reduced to minimum levels. Properly grazing forage, light applications of fertilizer and establishment of quality native grasses will improve plant productivity and also improve plant health and vigor. Resprouting of hardwood trees and broadleaf weeds will be controlled by chemical or mechanical means when there are 3 or more stem per square foot or when canopy cover exceeds 50 percent. By properly stocking and grazing native forage and improving native forage quality, less hay and supplemental feed will be required by livestock and ranch efficiency should improve. Additional ponds will be constructed in areas where existing ponds, streams, springs, etc. do not supply adequate livestock water or where better grazing distribution is needed. Livestock numbers and forage requirements will be balanced with forage production using prescribed grazing techniques. Regularly scheduled preventative treatment for parasites of livestock will maintain and/or improve animal health and performance. Proper grazing heights will also help reduce the spread of intestinal parasites by reducing the risk of ingestion of parasite eggs.	

14	RESOURCE CONCERNS	MAGNITUDE/EFFECTS	IMPACTS
	1. Plants Unsuitable for Intended Use	1. In situations where adequate seed sources of decreaser species are not available, decreaser species will be established according to NRCS standards and specifications.	1. Improved plant composition, forage production and palatability of forage.
	2. Plants Productivity	2. On areas predominated by invader and increaser species, suitable decreaser species will be established and limited amounts of fertilizer will be applied to aid in establishment and to improve productivity.	2. Forage production will improve from approximately 1,700 lbs./acre/year to approximately 2,400 lbs./acre/year (700 lbs./acre/year net increase)
	3. Plants Health and Vigor	3. Proper stocking rates and rotation of grazing as dictated by amount of leaf removal for native grass plants, along with prescribed burning, should improve native plants' health and vigor.	3. Improved native grass plant health and vigor. Improved recovery rate from plant stress due to drought, etc.
	4. Establishment, Growth and Harvest	4. On areas where establishment of some native grasses is a problem, alternative and more site specific species will need to be selected for establishment.	4. Improved native grass stand and improved quality of forage.

	5. Plant Pests	5. Using prescribed burning techniques and/or chemical or mechanical treatment to control weeds and brush will keep most pests of native grass controlled. Weeds will need to be treated when 3 or more stems per square foot exist or when canopy cover of weeds exceeds 50%.	5. Reduction in plant pests. Reduced competition for sunlight, moisture and nutrients.
	6. Domestic Animal Food Requirements	6. By properly stocking native grass pastures and using prescribed grazing techniques, supplemental food requirements of livestock should be reduced to minimal levels.	6. Reduction in supplemental feeding. Improved profit margin.
	7. Domestic Animal Water Requirements	7. Ponds will be constructed in strategically located areas to improve livestock water distribution as well as grazing distribution.	7. Improved performance of both forage and livestock.
	8. Animals Population - Resource Balance Management	8. By using prescribed grazing techniques, livestock population and forage requirements can be balanced with forage production.	8. Sustained use of forage. Improved livestock performance.
	9. Animal Health Management	9. Properly managed forage will raise the grazing height of the forage and reduce the potential for livestock to ingest intestinal parasites from ground sources. Controlled burning may also help aid in reducing tick populations. Regularly scheduled preventative treatment will help control disease and parasite occurrences.	9. Improve livestock health. Reduced parasite infestations and disease outbreak.
CRA	**133B.40.001**	**SYSTEM TEMPLATE LABEL** SAIZ1	

15	*** QUALITY CRITERIA DOCUMENTATION** *list resource concerns then indicate yes/no (X)*	
	1. Plants Unsuitable for Intended Use	_X_YES ___NO
	2. Plants Productivity	_X_YES ___NO
	3. Plants Health and Vigor	_X_YES ___NO
	4. Establishment, Growth and Harvest	_X_YES ___NO
	5. Plant Pests	_X_YES ___NO
	6. Domestic Animal Food Requirements	_X_YES ___NO
	7. Domestic Animal Water Requirements	_X_YES ___NO
	8. Animals Population - Resource Balance Management	_X_YES ___NO
	9. Animal Health Management	_X_YES ___NO

* Provides an indication that the resource quality criteria will be met.

Conservation Practice Physical Effects on Resource Concerns
Candidate Practice List

State	Oklahoma	Field Office	Antlers, Atoka, Durant, Hugo, Idabel, Tishomingo	MLRA	133B	System Template Label	SAIZ1
Soil Interpretations							

Resource Concerns / Conservation Practices	Plants Unsuitable for Intended Use	Plants Productivity	Plants Health and Vigor	Establishment, Growth and Harvest	Plant Pests	Domestic Animal Food Requirements	Domestic Animal Water Requirements	Animals Population - Resource Balance Management
314-Brush Management	+	+ + +	+ + +	+ + +	+ + +	F+ + +	0	F+ + +
338-Prescribed Burning	+ + +	+ + +	+ + +	+ + +	+ +	F+ + +	0	F+ + +
342-Critical Area Planting	+	0	0	+	0	+	+	0
362-Diversion	N/A	N/A	N/A	N/A	N/A	N/A	+	N/A
378-Pond	+	F+	F+ +	F+ +	N/A	F+	+ + +	F+ + +
382-Fencing	F+ + +	F+ +	F+ + +	F+ + +	F+	F+ +	F+ + +	F+ + +
391-Riparian Forest Buffer	0	0	0	0	0	0	+ +	0
394-Firebreak	F	F	F	F	F	F	N/A	F
410-Grade Stabilization Structure	0	F+	F+	F+	N/A	F+	+ +	F+
472-Use Exclusion	+ +	+ +	+ +	+ + +	+	+ +	+ + +	+ +
512-Pasture and Hayland Planting	+ + +	+ + +	+ +	+ +	0	+ + +	+	+ + +
516-Pipeline	0	F	F	F	N/A	F	F+ +	F+ + +
528A-Prescribed Grazing	+ + +	+ + +	+ + +	+ + +	+ +	+ + +	F+ +	+ + +

RATINGS:

Not Applicable	=	N/A	Slight	=	+ or -
Negligible	=	0	Moderate	=	+ + or --
Facilitating	=	F	Significant	=	+ + + or ---

Conservation Practice Physical Effects on Resource Concerns
Candidate Practice List

State	Oklahoma	Field Office	Antlers, Atoka, Durant, Hugo, Idabel, Tishomingo	MLRA	133B	System Template Label	SAIZ1
Soil Interpretations							

Resource Concerns / Conservation Practices	Animal Health Management							
314-Brush Management	+ +							
338-Prescribed Burning	+ + +							
342-Critical Area Planting	+							
362-Diversion	N/A							
378-Pond	+ +							
382-Fencing	F + +							
391-Riparian Forest Buffer	0							
394-Firebreak	F + + +							
410-Grade Stabilization Structure	+ +							
472-Use Exclusion	+ +							
512-Pasture and Hayland Planting	+							
516-Pipeline	F + + +							
528A-Prescribed Grazing	+							

RATINGS:

Not Applicable	=	N/A	Slight	=	+ or -
Negligible	=	0	Moderate	=	+ + or --
Facilitating	=	F	Significant	=	+ + + or ---

Conservation Practice Physical Effects on Resource Concerns
Candidate Practice List

State	Oklahoma	Field Office	Antlers, Atoka, Durant, Hugo, Idabel, Tishomingo	MLRA	133B	System Template Label	SAIZ1
Soil Interpretations							

Resource Concerns / Conservation Practices	Plants Unsuitable for Intended Use	Plants Productivity	Plants Health and Vigor	Establishment, Growth and Harvest	Plant Pests	Domestic Animal Food Requirements	Domestic Animal Water Requirements	Animals Population - Resource Balance Management
550-Range Seeding	+ + +	+ + +	+ + +	+ + +	+	+ + +	+ +	+ + +
590-Nutrient Management	+ +	+ + +	+ + +	+ + +	+ +	+ + +	0	+ + +
595-Pest Management	+ +	+ + +	+ + +	+ + +	+ + +	+ +	0	+ + +
614-Trough or Tank	0	F + +	F + +	F + +	0	F +	+ + +	F + + +
642-Well	0	F + +	F + +	F + +	0	F +	+ + +	F + + +
645-Wildlife Upland Habitat Mgt.	+	+	+	0	0	+	+ +	+

RATINGS:

Not Applicable	=	N/A	Slight	=	+ or -
Negligible	=	0	Moderate	=	+ + or --
Facilitating	=	F	Significant	=	+ + + or ---

Conservation Practice Physical Effects on Resource Concerns
Candidate Practice List

State	Oklahoma	Field Office	Antlers, Atoka, Durant, Hugo, Idabel, Tishomingo	MLRA	133B	System Template Label	SAIZ1
Soil Interpretations							

Resource Concerns / Conservation Practices	Animal Health Management							
550-Range Seeding	+ +							
590-Nutrient Management	+ + +							
595-Pest Management	+ + +							
614-Trough or Tank	+ + +							
642-Well	+ + +							
645-Wildlife Upland Habitat Mgt.	+							

RATINGS:

Not Applicable	=	N/A	Slight	=	+ or -
Negligible	=	0	Moderate	=	+ + or --
Facilitating	=	F	Significant	=	+ + + or ---