

MANAGEMENT SYSTEM TEMPLATE

A. BENCHMARK SYSTEM WORKSHEET

1.	STATE	Oklahoma	
2.	FIELD OFFICE	Shattuck - Ellis County	
3.	MLRA	77E	
4.	COMMON RESOURCE AREA (CRA)	077E.40.003	
5.	RESOURCE INTERPRETATIONS		
5.1	SOIL	Soil Legends, Technical/Non-Technical Soils Interpretations	
5.2	WATER	Water Quantity and Quality Interpretations	
5.3	AIR		
5.4	PLANT	Rangeland Interpretations	
5.5	ANIMAL	Threatened and Endangered Species List; Wildlife Interpretations	
5.6	HUMAN		
6.	HYDROLOGIC UNIT	11100201-055, 11100203-016, 11100203-020	
7.	SYSTEM TEMPLATE LABEL	ECDZA	
8.	SYSTEM NAME	Rolling Plains	
9.	PLANNING PHASE	Benchmark	
10.	PLANNING LEVEL	N/A	
11.	NRCS LANDUSE	Grazed Range	
12.	EXISTING CONSERVATION PRACTICES		
		<ol style="list-style-type: none"> 1. Livestock Pipeline (516) 2. Trough or Tank (614) 3. Well (642) 4. Pond (378) 5. 	
13.	SYSTEM NARRATIVE		
		<p>This system consists of perennial native grasses predominantly consisting of a Blue grama/Buffalograss complex on moderately sloped, sandy loam soils. These fields were previously cropped and re-established to a native grass mixture consisting of Sand bluestem, Indiangrass, Switchgrass, Little bluestem and Sideoats grama. Continuous grazing during the warm season growing period, with excessive stocking rates has reverted the pasture to the less productive Blue grama/Buffalograss complex. Due to the shallow soils and sloping topography, soil erosion control practices are needed to control erosion and reduce flooding. The acreage is used for cattle production with some wildlife emphasis. Livestock water is supplied by wells, tanks and ponds, which are inadequately distributed to develop rotational grazing system. Extreme temperatures and winds can negatively impact livestock health and performance where adequate shelter is not provided.</p>	
14.	RESOURCE CONCERNS		MAGNITUDE/EFFECTS
	<ol style="list-style-type: none"> 1. Soil - Erosion - Classic gullies 2. Water - Quantity - Flooding 3. Plants - Condition - Productivity 4. Plants - Condition - Health & Vigor 5. Plants - Mngmt - Est., Growth, Harv 6. Animals - Habitat - Domes. Food 7. Animals - Habitat - Domes. Shelter 8. Animals - Habitat - Domes. Water 9. Animals - Habitat - Wildlife Cover 10. Animal - Mngmt - Pop. & Res. Balance 		<ol style="list-style-type: none"> 1. 50 tons/yr 2. Creates gullies 3. 1500# forage production/acre 4. Reduction of plant vigor 5. Limited growth production 6. Limited forage availability 7. Lack of adequate shelter for cattle 8. Poor water distribution 9. Lack of adequate wildlife habitat 10. Poor grazing dispersal

Conservation Management Systems

Certification of Quality Criteria

Shattuck F.O.
NE Bollins Plains
Grazed Range

RESOURCE CONSIDERATION/PROBLEM	Term Effects		Meets Quality Criteria			
	Short	Long	Benchmark		Planned	
			Yes	No	Yes	No
SOIL						
Erosion						
Sheet and rill			✓			
Wind			✓			
Irrigation induced			✓			
Concentrated flow						
Cropland ephemeral gully			✓			
Classic gully		✓		✓		
Soil mass movement			✓			
Roadbank and construction sites			✓			
Streambank erosion			✓			
Condition						
Tilth			✓			
Compaction			✓			
Soil contaminants			✓			
Deposition (Onsite & Offsite)						
Damage			✓			
Safety			✓			
WATER						
Quantity						
Seeps			✓			
Flooding		✓		✓		
Subsurface water			✓			
Restricted capacity			✓			
Conveyance			✓			
Inadequate outlets			✓			
Restricted capacity, water bodies			✓			
Water management--irrigated			✓			
Water management--non-irrigated			✓			
Quality						
Contaminants			✓			
Aquatic habitat suitability			✓			
AIR						
Quality						
Sediment			✓			
Smoke			✓			
Chemical drift			✓			
Odors			✓			
Fungi			✓			
Molds			✓			
Pollen			✓			
Condition						
Temperature			✓			
Air movement			✓			
Humidity			✓			

Conservation Management Systems

Certification of Quality Criteria

RESOURCE CONSIDERATION/PROBLEM	Term Effects		Meets Quality Criteria			
	Short	Long	Benchmark		Planned	
			Yes	No	Yes	No
PLANTS						
Suitability						
Adapted to site			✓			
Intended use			✓			
Condition						
Productivity		✓		✓		
Health and vigor		✓		✓		
Management						
Establishment				✓		
Growth		✓		✓		
Harvest				✓		
Nutrient management			✓			
Pests			✓			
Threatened and endangered species			✓			
ANIMALS						
Habitat						
Food		✓		✓		
Cover/Shelter		✓		✓		
Water		✓		✓		
Management						
Population and Resource Balance		✓		✓		
Animal Health			✓			

References:
 NPPH Pages 75-78
 FOTG Section III - Quality Criteria
 GM -450 Part 401 Paragraph 401.03