

MANAGEMENT SYSTEM TEMPLATE

A. BENCHMARK SYSTEM WORKSHEET

1.	STATE	Oklahoma	
2.	FIELD OFFICE	Buffalo - Harper County	
3.	MLRA	77E	
4.	COMMON RESOURCE AREA (CRA)	077E.40.002	
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		
7.	SYSTEM TEMPLATE LABEL	EBDZA	
8.	SYSTEM NAME	Rolling Uplands	
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. Diversion (362) 2. Pond (378) 3. Livestock Pipeline (516) 4. Trough or Tank (614) 5. Well (642) 	
13.	SYSTEM NARRATIVE	<p>This system consists of perennial native grasses predominantly consisting of a Blue grama/Bufalograss complex. There is also a significant acreage previously cropped that has been planted to a native grass mixture consisting of Sand bluestem, Indiangrass, Switchgrass, Little bluestem, and Sideoats grama. Soils are moderate to shallow in depth and are generally of low natural fertility. All acreage included in this system is used primarily for cattle production with some wildlife emphasis. Continual grazing and overstocking has reduced the overall productivity of the rangeland causing the growth of lower vigor plants. Livestock water supplies are typically not located to promote maximum grazing distribution and animal performance. Erosive gullies are found throughout the area due to the sloping topography and flooding caused by high intensity rainfall events. There is a general lack of livestock shelter such as trees and other improvements which increases animal weight and death losses during extreme weather conditions.</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. 100 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

RESOURCE CONSIDERATION/PROBLEM	Term Effect		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			✓			

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Certification of Quality Criteria

RESOURCE CONSIDERATION/PROBLEM	Term Effect		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(domestic/wildlife)						
Habitat						
Food				✓		
Cover				✓		
Shelter				✓		
Water				✓		
Threatened and endangered species			✓			
Management						
Population and Resource Balance				✓		
Animal Health			✓			

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