

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.40.004	
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	11050001-010, 025	
7.	SYSTEM TEMPLATE LABEL	EDDZA	
8.	SYSTEM NAME	(77E) Rough Broken	
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/Buffalograss complex. There is also some additional acreage on extreme slopes and breaks where tall to mid-grass species such as Little bluestem and Sideoats grama are in abundance. All acreage included in this system is used almost exclusively for cattle production with some significant wildlife emphasis. Livestock water is supplied by tanks and ponds, but inadequate distribution limits the use of rotational grazing systems. Continuous overgrazing is common which lowers plant health and reduces rangeland productivity. Most pastures do not produce enough grass to feed the existing livestock herd, therefore supplemental feeding is necessary. Topography is strongly sloping to steep and erosion control practices are needed to control gully erosion following flooding from high intensity rainfall events. Soils are generally shallow in depth and low in natural fertility. Eastern red cedar is a major undesirable brush species that is a major problem in this system. Extreme temperatures can negatively impact livestock health and performance when 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 - Pest 6. Plants - Mngmt - Est., Growth, Harv 7. Animal - Habitat - Domes. Food 8. Animal - Habitat - Domes. Shelter 9. Animal - Habitat - Domes. Water 10. Animal - Habitat - Wildlife Cover 11. Animal - Mngmt - Pop. & Res. Balance 	<ol style="list-style-type: none"> 1. 100 tons/yr 2. Creates gullies 3. 1000# forage production/acre 4. Reduction of plant vigor 5. Moisture/nutrient competition 6. Limited growth production 7. Limited forage availability 8. Lack of adequate shelter 9. Poor water distribution 10. Lack of adequate wildlife habitat 11. Poor grazing dispersal 	

Conservation Management Systems

*ROUGH BROKEN LAND - 1
RANGE*

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