

# MANAGEMENT SYSTEM TEMPLATE

## A. BENCHMARK SYSTEM WORKSHEET

1.	<b>STATE</b>	Oklahoma	
2.	<b>FIELD OFFICE</b>	Beaver - Beaver County	
3.	<b>MLRA</b>	77E	
4.	<b>COMMON RESOURCE AREA (CRA)</b>	077E.40.002	
5.	<b>RESOURCE INTERPRETATIONS</b>		
5.1	<b>SOIL</b>	Soil Legends, Technical/Non-Technical Soils Interpretations	
5.2	<b>WATER</b>	Water Quantity and Quality Interpretations	
5.3	<b>AIR</b>		
5.4	<b>PLANT</b>	Pastureland and Hayland Interpretations	
5.5	<b>ANIMAL</b>	Threatened and Endangered Species List	
5.6	<b>HUMAN</b>		
6.	<b>HYDROLOGIC UNIT</b>		
7.	<b>SYSTEM TEMPLATE LABEL</b>	EBJKA	
8.	<b>SYSTEM NAME</b>	Rolling Uplands	
9.	<b>PLANNING PHASE</b>	Benchmark	
10.	<b>PLANNING LEVEL</b>	N/A	
11.	<b>NRCS LANDUSE</b>	Pasture	
12.	<b>EXISTING CONSERVATION PRACTICES</b>		
	<ol style="list-style-type: none"> <li>1. Diversions (362)</li> <li>2. Pasture Planting (512)</li> <li>3. Terraces (600)</li> <li>4.</li> <li>5.</li> </ol>		
13.	<b>SYSTEM NARRATIVE</b>		
	<p>This system consists of introduced pasture grasses (almost exclusively of Old world bluestems) that have been planted for increased forage production on old cropland fields. Soils are moderately deep to deep and sloping which explains the existence of terraces or diversion terraces on a majority of the fields. Old cropping systems have reduced soil fertility and created compaction problems which reduce plant health and vigor, productivity and overall pastureland growth. Grazing has been deferred on a majority of the fields because of enrollment in the Conservation Reserve Program (CRP), therefore the fields currently do not have yearly fertilization programs. Many fields are not equipped with livestock water facilities because of the CRP. Moisture conditions are extremely critical to total forage production. Economic conditions over the past several years have restricted the degree and extent of management being done with these improved grasses. When grazing continues following the CRP, removal of old dead growth will be facilitated by prescribed burning which will cause air quality concerns with smoke. Major storm events often sweep across the landscape causing temporary flooding and excess runoff which can damage the land.</p>		
14.	<b>RESOURCE CONCERNS</b>	<b>MAGNITUDE/EFFECTS</b>	
	<ol style="list-style-type: none"> <li>1. Soil - Condition - Compaction</li> <li>2. Water - Quantity - Flooding</li> <li>3. Air - Quality - Smoke</li> <li>4. Plant - Condition - Productivity</li> <li>5. Plant - Condition - Health/Vigor</li> <li>6. Plant - Mngmt. - Est/Growth/Harv.</li> <li>7. Plant - Mngmt. - Nutrient</li> <li>8. Animals - Habitat - Domes. Food</li> <li>9. Animals - Habitat - Domes. Water</li> <li>10. Animals - Mngmt. - Pop./Res. Bal.</li> </ol>	<ol style="list-style-type: none"> <li>1. Reduced production</li> <li>2. Creates gullies</li> <li>3. Human Safety/Health</li> <li>4. 2000#/Ac. Forage Production</li> <li>5. Decreased production</li> <li>6. Reduction of plant vigor</li> <li>7. Undercover utilization</li> <li>8. Limited forage availability</li> <li>9. Lack of adeq. livestock water</li> <li>10. Poor grazing dispersal</li> </ol>	

**Conservation Management Systems**

**Certification of Quality Criteria**

RESOURCE CONSIDERATION/PROBLEM	Term Effect		Meets Quality Criteria			
	Short	Long	Benchmark		Planned	
			Yes	No	Yes	No
<b>SOIL</b>						
<b>Erosion</b>						
Sheet and rill			✓			
Wind			✓			
Irrigation induced			✓			
<b>Concentrated flow</b>						
Cropland ephemeral gully			✓			
Classic gully			✓			
Soil mass movement			✓			
Roadbank and construction sites			✓			
Streambank erosion			✓			
<b>Condition</b>						
Tilth			✓			
Compaction				✓		
Soil contaminants			✓			
<b>Deposition (Onsite &amp; Offsite)</b>						
Damage			✓			
Safety			✓			
<b>WATER</b>						
<b>Quantity</b>						
Seeps			✓			
Flooding				✓		
Subsurface water			✓			
Restricted capacity			✓			
Conveyance			✓			
Inadequate outlets			✓			
Restricted capacity, water bodies			✓			
Water management--irrigated			✓			
Water management--non-irrigated			✓			
<b>Quality</b>						
Contaminants			✓			
Aquatic habitat suitability			✓			
<b>AIR</b>						
<b>Quality</b>						
Sediment			✓			
Smoke				✓		
Chemical drift			✓			
Odors			✓			
Fungi			✓			
Molds			✓			
Pollen			✓			
<b>Condition</b>						
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
<b>PLANTS</b>						
Suitability						
Adapted to site			✓			
Intended use			✓			
Condition						
Productivity				✓		
Health and vigor				✓		
Management						
Establishment				✓		
Growth				✓		
Harvest				✓		
Nutrient management				✓		
Pests			✓			
Threatened and endangered species			✓			
<b>ANIMALS(domestic/wildlife)</b>						
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