

MANAGEMENT SYSTEM TEMPLATE

A. BENCHMARK SYSTEM WORKSHEET

1.	STATE	Oklahoma
2.	FIELD OFFICE	Beaver - Beaver County
3.	MLRA	77A
4.	COMMON RESOURCE AREA (CRA)	077A.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	CBDZA
8.	SYSTEM NAME	Rolling Flatlands
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. Trough or Tank (614) 2. Well (642) 3. Pipeline for livestock (516) 4. 5. 	
13.	SYSTEM NARRATIVE	
	<p>This system consists of perennial native grasses predominantly consisting of a Blue grama/Buffalograss complex on soils ranging from sandy loam to fine sands. The slope varies from moderate to strongly sloping. Average rainfall for the area is 18"/year. Due to the sloping topography, soil erosion control practices are needed. The acreage is used for cattle production. Forage production of native grasses ranges from 800 lbs/ac. to 2200 lbs/ac. depending on rainfall through the growing season. Livestock watering facilities are spaced too far apart to properly distribute grazing. Livestock tend to congregate near water wells which can create a source of groundwater contamination. Problem species such as Sand sage, Purple threeawn, Broom snakeweed and Prickly pear cactus are reducing the quantity and quality of desirable forage. High quality grasses such as Sand bluestem, Sideoats grama, Little bluestem and Switchgrass are being replaced by grasses such as Buffalograss and Blue grama. This is caused by continuous grazing during the warm season growing period, with excessive stocking rates. Lack of livestock shelter contributes to cattle weight and death loss during extreme temperatures.</p>	
14.	RESOURCE CONCERNS	MAGNITUDE/EFFECTS
	<ol style="list-style-type: none"> 1. Soil - Erosion - Classic gullies 2. Water - Quality - Groundwater Contam 3. Plants - Suitability 4. Plants - Condition - Productivity 5. Plants - Condition - Health & Vigor 6. Plants - Mngmt - Est., Growth, Harv 7. Plants - Mngmt - Pest 8. Animal - Habitat - Shelter 9. Animal - Habitat - Water 10. Animal - Mngmt - Pop. & Res. Balance 	<ol style="list-style-type: none"> 1. 15 tons/yr 2. Water well contamination 3. Lower successional plants 4. 800 lbs/ac. 5. Downward Trend 6. Over/under utilization 7. 50% production loss 8. Inadequate livestock shelter 9. Inadequate distribution 10. 25 acres/animal unit

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			✓			

Conservation Management Systems

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