MANAGEMENT SYSTEM TEMPLATE

A. BENCHMARK SYSTEM WORKSHEET

1.	STATE	Oklahoma
2.	FIELD OFFICE	Buffalo - Harper County
3.	MLRA	78C
4.	COMMON RESOURCE AREA (CRA)	078C.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	11040008-014, 034; 11050001-010, 025
7.	SYSTEM TEMPLATE LABEL	FBDZA
8.	SYSTEM NAME	78C - Rolling Uplands
9.	PLANNING PHASE	Benchmark
10.	PLANNING LEVEL	N/A
11.	NRCS LANDUSE	Grazed Range
12.	EXISTING CONSERVATION PRACTICES	

1. Diversion (362)
2. Pond (378)
3. Livestock Pipeline (516)
4. Trough or Tank (614)
5. Well (642)

13. SYSTEM NARRATIVE

This system consists of perennial native grasses predominantly consisting of a Blue grama/Buffalograss complex. There is also a significant acreage previously cropped that has been planted to a native grass mixture consisting of Sand bluestem, Indian-grass, Switchgrass, Little bluestem, and Sideoats grama. All acreage included in this system is used primarily for cattle production with some wildlife emphasis. Due to the sloping topography and flooding caused by high intensity rainfall events, erosion control practices are needed to control gullies. Soils are moderate to shallow in depth and are generally of low natural fertility. Livestock water is supplied by ponds and tanks which are not properly distributed to promote rotational grazing. Continuous overgrazing has lowered rangeland productivity by reducing plant health and vigor. Extreme temperature conditions negatively impact livestock health and performance when shelter is not available.

14. RESOURCE CONCERNS	MAGNITUDE/EFFECTS
1. Soil - Erosion - Classic gullies	1. 100 tons/yr
2. Water - Quantity - Flooding	2. Creates gullies
3. Plants - Condition - Productivity	3. 1500# forage production/acre
4. Plants - Condition - Health & Vigor	4. Reduction of plant vigor
5. Plants - Mngmt - Est., Growth, Harv	5. Limited growth production
6. Animals - Habitat - Domes. Food	6. Limited forage availability
7. Animals - Habitat - Domes. Shelter	7. Lack of adequate shelter for cattle
8. Animals - Habitat - Domes. Water	8. Poor water distribution
9. Animals - Habitat - Wildlife Cover	9. Lack of adequate wildlife habitat
10. Animal - Mngmt - Pop. & Res. Balance	10. Poor grazing dispersal

ROLLING UPLANDS - RANGE

Conservation Management Systems

Certification of Quality Criteria

RESOURCE CONSIDERATION/PROBLEM	Term Effect Short	Term Effect Long	Meets Quality Criteria Benchmark Yes	Meets Quality Criteria Benchmark No	Meets Quality Criteria Planned Yes	Meets Quality Criteria Planned 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 Short	Term Effect Long	Meets Quality Criteria Benchmark Yes	Meets Quality Criteria Benchmark No	Meets Quality Criteria Planned Yes	Meets Quality Criteria Planned 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