

MANAGEMENT SYSTEM TEMPLATE

A. BENCHMARK SYSTEM WORKSHEET

1.	STATE	Oklahoma	
2.	FIELD OFFICE	Cheyenne - Roger Mills County	
3.	MLRA	78C	
4.	COMMON RESOURCE AREA (CRA)	078C.40.012	
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	Cropland Interpretations	
5.5	ANIMAL	Threatened and Endangered Species List	
5.6	HUMAN		
6.	HYDROLOGIC UNIT	11130301-020, 030, 040, 070, 016	
7.	SYSTEM TEMPLATE LABEL	FLAZA	
8.	SYSTEM NAME	Cheyenne Sandy Uplands	
9.	PLANNING PHASE	Benchmark	
10.	PLANNING LEVEL	N/A	
11.	NRCS LANDUSE	Crop	
12.	EXISTING CONSERVATION PRACTICES		
	<ol style="list-style-type: none"> 1. Countour Farming (330) 2. Grassed Waterway (412) 3. Terraces (600) 4. 5. 		
13.	SYSTEM NARRATIVE		
	<p>This system consists of wheat, cotton, and grain sorghum planted on sandy textured, moderately sloping, upland soils. Most of the wheat provides pasture for stocker cattle through the winter, and most acreage is then harvested for grain. The soils are susceptible to both wind and water erosion. Most fields are terraced with waterways and farmed on the contour. Wind erosion can become very severe on fields planted to cotton, making its adaptability to the area very questionable. Conventional tillage practices deteriorate soil tilth and lowers soil fertility, which reduces potential crop yields and forage production. Fertilizer is applied annually without regard to soil tests. Weed competition from bindweed and cheat can be a problem. The majority of the area is located within the boundaries of the Upper Washita Watershed which contains approximately 165 small lakes. Nitrate conmtamination has been documented in this area, particularly with Skipout Lake.</p>		
14.	RESOURCE CONCERNS	MAGNITUDE/EFFECTS	
	<ol style="list-style-type: none"> 1. Soil - Erosion - Sheet/Rill 2. Soil - Erosion - Wind 3. Soil - Erosion - Ephemeral 4. Soil - Condition - Tilth 5. Water - Qual. - Contamin. Surf. 6. Plants - Suitability - Not Adapt. 7. Plants - Management - Nutrient 8. Plants - Management - Pest 9. 10. 	<ol style="list-style-type: none"> 1. Soil loss 10 tons/ac/yr 2. Soil loss 13 tons/ac/yr 3. Soil loss 3 tons/ac/yr 4. Soil condition index <0.0 5. High nitrates - Skipout Lake 6. Cotton on erosive soils 7. Low soil fertility 8. Nutrient/moist. competition 9. 10. 	

Conservation Management Systems

Certification of Quality Criteria

RESOURCE CONSIDERATION/PROBLEM	Term Effects		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						
Tiilh				✓		
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 Effects		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						
Habitat						
Food			✓			
Cover/Shelter			✓			
Water			✓			
Management						
Population and Resource Balance			✓			
Animal Health			✓			

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