

MANAGEMENT SYSTEM TEMPLATE

A. BENCHMARK SYSTEM WORKSHEET

1.	STATE	Oklahoma	
2.	FIELD OFFICE	Fairview - Major County	
3.	MLRA	78C	
4.	COMMON RESOURCE AREA (CRA)	078C.40.007	
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	1100301-010, 030	
7.	SYSTEM TEMPLATE LABEL	FGAZA	
8.	SYSTEM NAME	Loamy 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. Conservation Crop Rotation (328) 2. Contour Farming (330) 3. Grassed Waterway (412) 4. Terraces (600) 5. 		
13.	SYSTEM NARRATIVE		
	<p>This system consists of wheat, cotton, and grain sorghum planted on loamy, gently sloping, upland soils. Most of the wheat provides pasture for stocker cattle through the winter, and most acreage is then harvested for grain. Most fields are terraced with waterways and farmed on the contour, however soil erosion is a problem on unterraced fields with poor residue management. Conventional tillage practices deteriorate soil tilth and create plow pans, which reduce water intake and increases runoff. Low soil fertility reduces potential crop yields and forage production. Fertilizing is applied annually without regard to soil tests. Weed competition from bindweed and cheat can be a problem.</p>		
14.	RESOURCE CONCERNS		MAGNITUDE/EFFECTS
	<ol style="list-style-type: none"> 1. Soil - Erosion - Sheet/Rill 2. Soil - Erosion - Ephemeral 3. Soil - Condition - Tilth 4. Soil - Condition - Compaction 5. Plants - Condition - Productivity 6. Plants - Management - Nutrient 7. Plants - Management - Pest 8. 9. 10. 		<ol style="list-style-type: none"> 1. Soil loss 10 tons/ac/yr 2. Soil loss 3 tons/ac/yr 3. Soil Condition Index <0.0 4. Plow pan 5. Reduced crop productivity 6. Improper fertilization 7. Nutrient/moisture competition 8. 9. 10.

Conservation Management Systems CROP

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