

## 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.40.001	
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	11100201-015, 035, 040, 155; 11100301-010	
7.	SYSTEM TEMPLATE LABEL	FAAOA	
8.	SYSTEM NAME	Sandy Uplands	
9.	PLANNING PHASE	Benchmark	
10.	PLANNING LEVEL	N/A	
11.	NRCS LANDUSE	Crop	
12.	EXISTING CONSERVATION PRACTICES		
	1.		
	2.		
	3.		
	4.		
	5.		
13.	SYSTEM NARRATIVE		
	<p>This system consists of cropland fields on gently rolling to moderately sloped land with deep sandy soils. These fields are annually sown to wheat for grain production and are normally quite marginal and long-term productivity is low. Continuous tillage removes organic matter from the soil which reduces fertility and deteriorates soil tilth. These fields are susceptible to wind erosion when adequate amounts of crop residue are not left on the soil surface. There is a high potential for leaching contaminants into the groundwater within this area, due to the sandy textured soils. Infestations of Green bugs and Cheat are common in the area.</p>		
14.	RESOURCE CONCERNS		MAGNITUDE/EFFECTS
	1.	Soil - Erosion - Wind	1. Soil loss 15 tons/ac/yr
	2.	Soil - Condition - Tilth	2. Soil Condition Index < 0.0
	3.	Water - Quality - Contaminants	3. Ground water contaminants
	4.	Plants - Mngmt. - Nutrient Mngmt.	4. Low soil fertility
	5.	Plants - Mngmt. - Plant Pests	5. Reduce crop yields
	6.		6.
	7.		7.
	8.		8.
	9.		9.
	10.		10.

**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>						
Erosion						
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