

MANAGEMENT SYSTEM TEMPLATE

A. BENCHMARK SYSTEM WORKSHEET

1.	STATE	Oklahoma	
2.	FIELD OFFICE	Shattuck - Ellis 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	11090201-015, 020, 030; 11100203-020; 11100301-020	
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

Shattuck F.D.
78C.1 Sandy Oplands + Dunes
Cropland

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						
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 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