MANAGEMENT SYSTEM TEMPLATE

A. BENCHMARK SYSTEM WORKSHEET

1.	STATE	Oklahoma
2.	FIELD OFFICE	Beaver - Beaver County
3.	MLRA	77E
4.	COMMON RESOURCE AREA (CRA)	077E.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	
7.	SYSTEM TEMPLATE LABEL	EAAOA
8.	SYSTEM NAME	Sandy Uplands and Dunes
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

This system consists of cropland fields on gently rolling to moderately sloped land with sandy soils. These fields are annually sown to wheat for grain production and soils are normally quite marginal and long term productivity is usually low. Bindweed and Cheat are common weeds found throughout the area. These fields are susceptable to wind erosion when adequate amounts of crop residue are not left on the soil surface. Terrace systems are commonly installed to control ephemeral erosion, caused by occasional high intensity rainfall events. Fertilizers are applied without determining the needs of the plants. Excessive application of fertilizers and pesticides is a potential source of groundwater contamination due to the sandy texture of the soils.

14.	RESOURCE CONCERNS	MAGNITUDE/EFFECTS
1.	Soil - Erosion - Wind	Soil loss 15 tons/ac/yr.
2.	Soil - Erosion - Ephemeral Gullies	Soil loss 4 tons/ac/yr.
3.	Soil - Condition - Tilth	Soil Condition Index <0.0
4.	Water - Quality - Contaminants	Ground water contaminants
5.	Plants - Mngmt - Nutrient	Low soil fertility
6.	Plants - Mngmt - Pest	Reduce crop yield
7.		
8.		
9.		
10.		

Conservation Management Systems

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