

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	Rangeland Interpretations	
5.5	ANIMAL	Threatened and Endangered Species List; Wildlife Interpretations	
5.6	HUMAN		
6.	HYDROLOGIC UNIT	11090201-015, 020, 030; 11100203-020; 11100301-020	
7.	SYSTEM TEMPLATE LABEL	FADZA	
8.	SYSTEM NAME	Sandy Uplands	
9.	PLANNING PHASE	Benchmark	
10.	PLANNING LEVEL	N/A	
11.	NRCS LANDUSE	Grazed Range	
12.	EXISTING CONSERVATION PRACTICES		
	<ol style="list-style-type: none"> 1. Wells (642) 2. Trough or Tank (614) 3. 4. 5. 		
13.	SYSTEM NARRATIVE		
	<p>This system consists of native rangelands used almost solely for livestock production. Landscape consists of gently rolling to moderately sloping sandy textured soils with some extensive dune areas. Poor economic conditions have restricted the use of range management practices such as rotational grazing, adequate livestock watering facilities, and brush management. A history of continuous overgrazing has reduced plant health and lowered the potential rangeland production. Gully erosion, along with "blow out" areas in the dune soils, are the major kinds of erosion within this system. Soil erosion on oil field drilling sites is also a common problem throughout the area. The sandy textured soils have a high potential of leaching contaminants into the groundwater supply.</p>		
14.	RESOURCE CONCERNS	MAGNITUDE/EFFECTS	
	<ol style="list-style-type: none"> 1. Soil - Erosion - Classic gullies 2. Soil - Erosion - Drilling sites 3. Water - Quality - Groundwater contam. 4. Plants - Condition - Health & Vigor 5. Plants - Mngmt. - Est., Growth, Har. 6. Plants - Mngmt. - Plant Pests 7. Animals - Mngmt. - Pop.-Resource Bal. 8. 9. 10. 	<ol style="list-style-type: none"> 1. 60 tons/yr 2. 20 tons/yr 3. Contaminated groundwater 4. Poor forage production 5. Poor grazing distribution 6. Reduce forage production 40-60% 7. Decrease forage production 8. 9. 10. 	

Conservation Management Systems

Certification of Quality Criteria

Shattuck F.O.
78C.1 Sandy Upland & Dunes
Grazed Range

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 <i>Drilling Site</i>		✓		✓		
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 <i>Brush Control</i>		✓		✓		
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