

MANAGEMENT SYSTEM TEMPLATE

A. BENCHMARK SYSTEM WORKSHEET

1.	STATE	Oklahoma
2.	FIELD OFFICE	Shattuck - Ellis County
3.	MLRA	77E
4.	COMMON RESOURCE AREA (CRA)	077E.40.003
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	Pastureland and Hayland Interpretations
5.5	ANIMAL	Threatened and Endangered Species List
5.6	HUMAN	
6.	HYDROLOGIC UNIT	11100201-055, 11100203-016, 11100203-020
7.	SYSTEM TEMPLATE LABEL	ECJKA
8.	SYSTEM NAME	Rolling Plains
9.	PLANNING PHASE	Benchmark
10.	PLANNING LEVEL	N/A
11.	NRCS LANDUSE	Pasture
12.	EXISTING CONSERVATION PRACTICES	
	<ol style="list-style-type: none"> 1. Diversion Terraces (362) 2. Pasture Planting (512) 3. Terraces (600) 4. 5. 	
13.	SYSTEM NARRATIVE	
	<p>This system consists of an improved pasture grass, Old world bluestem, that has been planted for increased forage production on old cropland fields. The previous cropping history has created soil compaction problems which reduce the plants ability to produce at maximum levels. Soils are moderately deep and sloping which explains the existence of terraces or diversion terraces. This acreage has a history of fertilization but presently has no yearly fertilization program. Moisture conditions are extremely critical to total forage production. Localized, high intensity rainfall events can cause serious flooding and erosion problems to unprotected fields. Continuous overgrazing is common which, reduces plant productivity and requires higher levels of supplemental feeding. Lack of adequate livestock watering facilities prohibits the use of rotational grazing systems.</p>	
14.	RESOURCE CONCERNS	MAGNITUDE/EFFECTS
	<ol style="list-style-type: none"> 1. Soil - Condition - Compaction 2. Water - Quant. - Flooding 3. Air - Quality - Smoke 4. Plant - Condition - Productivity 5. Plant - Condition - Health & Vigor 6. Plant - Mngmt. - Est./Growth/Harvest 7. Plant - Mngmt. - Nutrient 8. Animals - Habitat - Food 9. Animals - Habitat - Water 10. Animals - Mngmt. - Pop. & Res. Bal. 	<ol style="list-style-type: none"> 1. Reduced production 2. Creates gullies 3. Human safety - health 4. 2000#/ac. forage production 5. Decreased production 6. Reduction of plant vigor 7. Undercover utilization 8. Limited forage availability 9. Lack of adequate livestock watering 10. Poor grazing dispersal

Conservation Management Systems

Certification of Quality Criteria

Shattuck F.O.
 77E Rolling Plains
 Pasture

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