

MANAGEMENT SYSTEM TEMPLATE

A. BENCHMARK SYSTEM WORKSHEET

1.	STATE	Oklahoma	
2.	FIELD OFFICE	Fairview - Major County	
3.	MLRA	80A	
4.	COMMON RESOURCE AREA (CRA)	080A.40.005	
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	11050001-090; 11050002-010, 020	
7.	SYSTEM TEMPLATE LABEL	GEAOA <i>entered</i>	
8.	SYSTEM NAME	Cimarron Flats	
9.	PLANNING PHASE	Benchmark	
10.	PLANNING LEVEL	N/A	
11.	NRCS LANDUSE	Crop	
12.	EXISTING CONSERVATION PRACTICES		
		<ol style="list-style-type: none"> 1. Conservation Crop Rotation (328) 2. Residue Management, Seasonal (344) 3. Waterway (412) 4. Terraces (600) 5. 	
13.	SYSTEM NARRATIVE		
		<p>This system encompasses deep, loamy soils of the Cimarron River Valley. These bottomlands are nearly level to gently sloping. Small grains are the primary cash crop. Terraces and waterways exist on the more sloping areas to protect the soil from water erosion. The lesser slopes have no conservation practices and are susceptible to wind erosion, flooding, sheet & rill erosion and gully erosion when residues are inadequate. A long history of excessive tillage has lowered soil tilth and reduced crop growth and productivity. Haying and grazing occurs on this landuse when growth conditions are adequate. Livestock are often overstocked on the wheat pasture, resulting in poor animal performance and lowered crop production. Small grains are susceptible to detrimental greenbug infestation during spring if dry conditions exist. Fertilizers and pesticides are applied with no determination for plant needs or pest economic threshold.</p>	
14.	RESOURCE CONCERNS	MAGNITUDE/EFFECTS	
	<ol style="list-style-type: none"> 1. Soil - Erosion - Sheet & Rill 2. Soil - Erosion - Wind 3. Soil - Erosion - Ephem. Gully 4. Soil - Condition - Tilth 5. Soil - Dep. - Damage, On-Site 6. Water - Quant. - Flooding 7. Plants - Cond. - Productivity 8. Plants - Mgt - Est/Growth/Harv. 9. Plants - Mgt - Nutrient 10. Plants - Mgt - Pest 11. Animals - Pop/Res Balance 	<ol style="list-style-type: none"> 1. Soil loss 4 tons/ac/yr 2. Soil loss 7 tons/ac/yr 3. Soil loss 2 tons/ac/yr 4. Soil Condition Index <0.0 5. Excessive sedimentation 6. Practice/crop damage 7. Decreased production 8. Growth reduced 9. Reduction 7 Bu/Ac 10. Poor plant resistance 11. Overgrazed forage 	

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