

MANAGEMENT SYSTEM TEMPLATE

A. BENCHMARK SYSTEM WORKSHEET

1.	STATE	Oklahoma	
2.	FIELD OFFICE	Cherokee - Alfalfa County	
3.	MLRA	80A	
4.	COMMON RESOURCE AREA (CRA)	080A.40.002	
5.	RESOURCE INTERPRETATIONS		
5.1	SOIL	Soils Legends; Technical & Non-Technical Soils Interpretations	
5.2	WATER	Water Quantity & Quality Interpretations/Water Budgets	
5.3	AIR		
5.4	PLANT	Cropland Interpretations	
5.5	ANIMAL	Threatened and Endangered Species List; Wildlife Interpretations	
5.6	HUMAN		
6.	HYDROLOGIC UNIT	11060003-065, 046; 11060004-040, 060	
7.	SYSTEM TEMPLATE LABEL	GBAOA	
8.	SYSTEM NAME	Bottomland	
9.	PLANNING PHASE	BENCHMARK	
10.	PLANNING LEVEL	N/A	
11.	NRCS LANDUSE	Crop	
12.	EXISTING CONSERVATION PRACTICES		
	<ol style="list-style-type: none"> 1. Residue Management, Seasonal (344) 2. Waterway (412) 3. 		
13.	SYSTEM NARRATIVE		
	<p>This system is almost exclusively small grains. The vast majority of the landscape is level to gently sloping with deep well-drained soils on broad terraces and uplands. The wheat crops are harvested for grain and/or utilized for winter livestock pasture. Most years, soils are moldboard plowed, resulting in poor tilth, low organic matter and soil compaction which restricts root growth and water infiltration. This area is frequently flooded causing both on-site and off-site sediment damage and scour erosion. Natural drains are devoid of vegetation causing excessive streambank erosion. All of this reduces water quality, restricts natural stream flow, reduces capacity of water bodies and eventually causes a higher water table and salinity problems. Fertilizers and pesticides are commonly applied without determining plant needs for desired production and pest infestation levels. Cheat, Rye, Bindweed and various other broadleaf weeds are common pests. There is a loss of the recreation base at the Great Salt Plains Reservoir because of the high sediment loads leaving these cropland fields. Urban flooding from the Cottonwood Canyon Creek causes excessive damage to the City of Cherokee.</p>		
14.	RESOURCE CONCERNS		MAGNITUDE/EFFECTS
	<ol style="list-style-type: none"> 1. Soil - Erosion - Streambank 2. Soil - Condition - Tilth 3. Soil - Condition - Compaction 4. Soil - Condition - Contam. 5. Soil - Deposition - Damage 6. Water - Quant. - Flooding 7. Water - Quant. - Subsurf wat. 8. Water - Quant. - Inadeq outlets 9. Water - Quant. - Res. Capac. 10. Water - Qual. - Contamination 11. Plants - Cond. - Productivity 12. Plants - Cond. - Health/Vigor 13. Plants - Mngmt. - Nutrient 14. Plants - Mngmt. - Pests 		<ol style="list-style-type: none"> 1. Soil loss 100 Tons/Yr 2. Soil Condition Index <0.0 3. Shallow root growth 4. Excessive salinity 5. Silt deposits from overland flow 6. Urban damage & lost production 7. Lost prod. - high water tables 8. Increased gully erosion 9. Increased flooding 10. Increased fert., pest. & sediment 11. Lower yields 12. Poor plant health 13. Improper application of fertilizers 14. Improper application of pesticides

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