

## MANAGEMENT SYSTEM TEMPLATE

### A. BENCHMARK SYSTEM WORKSHEET

1.	STATE	Oklahoma
2.	FIELD OFFICE	Fairview - Major Country
3.	MLRA	80A
4.	COMMON RESOURCE AREA (CRA)	080A.40.001
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	11050002-020; 030; 040; 080
7.	SYSTEM TEMPLATE LABEL	GAAZA
8.	SYSTEM NAME	Sloping Uplands
9.	PLANNING PHASE	BENCHMARK
10.	PLANNING LEVEL	N/A
11.	NRCS LANDUSE	Crop
12.	EXISTING CONSERVATION PRACTICES	
	<ol style="list-style-type: none"> <li>1. Residue Management, Seasonal (344)</li> <li>2. Waterway (412)</li> <li>3. Terrace (600)</li> <li>4.</li> <li>5.</li> </ol>	
13.	SYSTEM NARRATIVE	
	<p>This system includes continuous wheat (for grain &amp;/or grazing), grain sorghum and forage sorghum (or various rotations of these) on loamy soils of varying depth and slope. Terraces &amp;/or waterways are present on steeper slopes, but soil erosion by water is a concern on untreated &amp;/or lesser slopes. Gully erosion also occurs where outlets into streams are inadequately protected. Soils are typically low in organic matter (affecting tilth) and compaction restricts root growth when fields are cultivated when too wet. Flooding, as a result of reduced stream capacity, occurs adjacent to rivers and streams leaving silt deposits in fields. Fertilizers and pesticides are commonly applied without determining plant needs for desired production and pest infestation levels. Greenbugs, cheat, rye, bindweed and various other grassy/broadleaf weeds are common pests.</p>	
14.	RESOURCE CONCERNS	MAGNITUDE/EFFECTS
	<ol style="list-style-type: none"> <li>1. Soil - Erosion - Sheet &amp; Rill</li> <li>2. Soil - Erosion - Ephemeral</li> <li>3. Soil - Erosion - Gully</li> <li>4. Soil - Erosion - Streambank</li> <li>5. Soil - Condition - Tilth</li> <li>6. Soil - Condition - Compaction</li> <li>7. Soil - Deposition - Damage</li> <li>8. Water - Quantity - Flooding</li> <li>9. Water - Quantity - Inadeq. Outlets</li> <li>10. Plants - Mngmt. - Nutrient</li> <li>11. Plants - Mngmt. - Pest</li> </ol>	<ol style="list-style-type: none"> <li>1. Soil loss 8 Tons/Ac/Yr</li> <li>2. Soil loss 2 Tons/Ac/Yr</li> <li>3. Soil loss 50 Tons/Yr</li> <li>4. Soil loss 50 Tons/Yr</li> <li>5. Low OM/Soil Condition Index &lt;0.0</li> <li>6. Limited crop root growth</li> <li>7. Silt deposits from overland flow</li> <li>8. Damage/lost production</li> <li>9. Gully erosion</li> <li>10. Improper application of fertilizers</li> <li>11. Weeds/nutrient &amp; Moisture competition</li> </ol>

Conservation Management Systems

080A.40.001

Certification of Quality Criteria

GAAZA  
GAAZB

RESOURCE CONSIDERATION/PROBLEM	Term Effect		Meets Quality Criteria			
	Short	Long	Benchmark		Planned	
			Yes	No	Yes	No
<b>SOIL</b>						
<b>Erosion</b>						
Sheet and rill				✓		
Wind			N/A			
Irrigation induced			N/A			
<b>Concentrated flow</b>						
Cropland ephemeral gully				✓		
Classic gully				✓		
Soil mass movement			✓			
Roadbank and construction sites			N/A			
Streambank erosion				✓		
<b>Condition</b>						
Tilth				✓		
Compaction				✓		
Soil contaminants			✓			
<b>Deposition (Onsite &amp; Offsite)</b>						
Damage				✓		
Safety			✓			
<b>WATER</b>						
<b>Quantity</b>						
Seeps			✓			
Flooding				✓		
Subsurface water			✓			
Restricted capacity			✓			
Conveyance			✓			
Inadequate outlets				✓		
Restricted capacity, water bodies			✓			
Water management--irrigated			N/A			
Water management--non-irrigated			N/A			
<b>Quality</b>						
Contaminants			✓			
Aquatic habitat suitability			✓			
<b>AIR</b>						
<b>Quality</b>						
Sediment			✓			
Smoke			✓			
Chemical drift			✓			
Odors			✓			
Fungi			✓			
Molds			✓			
Pollen			✓			
<b>Condition</b>						
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
<b>PLANTS</b>						
Suitability						
Adapted to site			✓			
Intended use			✓			
Condition						
Productivity			✓			
Health and vigor			✓			
Management						
Establishment			✓			
Growth			✓			
Harvest			✓			
Nutrient management				✓		
Pests				✓		
Threatened and endangered species			✓			
<b>ANIMALS(domestic/wildlife)</b>						
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