

## MANAGEMENT SYSTEM TEMPLATE

### A. BENCHMARK SYSTEM WORKSHEET

1.	STATE	Oklahoma	
2.	FIELD OFFICE	Taloga - Dewey County	
3.	MLRA	78C	
4.	COMMON RESOURCE AREA (CRA)	078C.40.008	
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		
7.	SYSTEM TEMPLATE LABEL	FHAOA	
8.	SYSTEM NAME	Sandy Deposits	
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.</li> <li>3.</li> <li>4.</li> <li>5.</li> </ol>		
13.	SYSTEM NARRATIVE		
	<p>This cropland system consists of small grains planted on very sandy soils that are naturally low in fertility. Sandy deposit areas are mostly comprised of Nobscot and Pratt-Tivoli Complex soils. Crop yields tend to be low, because of poor soil tilth and low soil fertility. Greenbugs and Cheat are common pests throughout the area. Wind erosion is a hazard on these sandy soils. Additional acres are being cleared of Shinnery and Sandsage, for cultivation. The sandy textured soils provide a high leaching potential for nutrients, pesticides and other contaminants, into the groundwater supply.</p>		
14.	RESOURCE CONCERNS		MAGNITUDE/EFFECTS
	<ol style="list-style-type: none"> <li>1. Soil - Erosion - Wind</li> <li>2. Soil - Condition - Tilth</li> <li>3. Water - Quality - Contaminants</li> <li>4. Plants - Condition - Health/Vigor</li> <li>5. Plants - Management - Nutrient</li> <li>6. Plants - Management - Pest</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> </ol>		<ol style="list-style-type: none"> <li>1. 18 Tons/Ac/Yr</li> <li>2. Soil Condition Index &lt; 0.0</li> <li>3. Possible groundwater contam.</li> <li>4. Poor plant health</li> <li>5. Low soil fertility</li> <li>6. Shinnery/Sandsage infestation</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> </ol>

**Conservation Management Systems**

**Certification of Quality Criteria**

RESOURCE CONSIDERATION/PROBLEM	Term Effects		Meets Quality Criteria			
	Short	Long	Benchmark		Planned	
			Yes	No	Yes	No
<b>SOIL</b>						
Erosion						
Sheet and rill			✓			
Wind		✓		✓		
Irrigation induced			✓			
<b>Concentrated flow</b>						
Cropland ephemeral gully			✓			
Classic gully			✓			
Soil mass movement			✓			
Roadbank and construction sites			✓			
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			✓			
Water management--non-irrigated			✓			
<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		✓				

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**Certification of Quality Criteria**

RESOURCE CONSIDERATION/PROBLEM	Term Effects		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</b>						
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