

MANAGEMENT SYSTEM TEMPLATE

B. CONSERVATION MANAGEMENT SYSTEM OPTIONS WORKSHEET

1.	STATE	Oklahoma		
2.	FIELD OFFICE	El Reno, Enid, Guthrie, Kingfisher, Medford and Newkirk		
3.	MLRA	80A		
4.	COMMON RESOURCE AREA (CRA)	080A.40.003		
5.	RESOURCE INTERPRETATIONS	<i>for each resource enter available interp data</i>		
5.1	SOIL	Soils Legends, Technical/Non-Technical Soils Interpretations Hydric Soil Interpretations		
5.2	WATER	Water Quantity and Quality Interpretations/Water Budgets		
5.3	AIR			
5.4	PLANT	Cropland Interpretations/Windbreak Interpretations		
5.5	ANIMAL	Threatened & Endangered Species List, Wildlife Interpretations		
5.6	HUMAN			
6.	HYDROLOGIC UNIT			
7.	SYSTEM TEMPLATE LABEL	GCAZB		
8.	SYSTEM NAME	(80A) Wheat, Grain/Forage Sorghum - Sandy Soils		
9.	PLANNING PHASE	Non-benchmark		
10.	PLANNING LEVEL	RMS		
11.	NRCS LANDUSE	Crop		
12.	PLANNED CONSERVATION PRACTICES	<i>list practices in the system</i>		
		<ol style="list-style-type: none"> 1. (328) Conservation Crop Rotation 2. (329B) Residue Management, Mulch Till 3. (342) Critical Area Planting 4. (380) Windbreak and Shelterbelt Establishment 5. (393) Filter Strip 6. (391) Riparian Forest Buffer 7. (580) Streambank and Shoreline Protection 8. (344) Residue Management, Seasonal 9. (589B) Cross Wind Stripcropping 10. (590) Nutrient Management 11. (595) Pest Management 12. (512) Pasture and Hayland Planting 13. (550) Range Seeding 		
13.	SYSTEM NARRATIVE	<i>describe how the practices work together as a system</i>		
		<p>This system includes continuous wheat (grain and/or grazed out), grain sorghum and forage sorghum (or various rotations of these) on rolling, deep sandy soils. When properly applied and maintained, crop rotation, pest and residue management will aid in breaking pest cycles. Filter strips, strip cropping, windbreaks, riparian forest buffers, streambank protection, residue management, critical area planting and/or conservation tillage will reduce wind and streambank erosion. Pasture and range seeding will provide an alternative to cropland to provide protection from erosion. Reduced sediment and resulting silt deposition will aid in maintenance of outlets, reduction of standing water and flooding due to improved stream capacity and flow. Nutrient management will benefit production, economics and water quality by keying application rates to plant needs and desired production.</p>		
14.	RESOURCE CONCERNS	MAGNITUDE/EFFECTS	IMPACTS	
	<ol style="list-style-type: none"> 1. Soil-Erosion-Wind 2. Soil-Eros.-Streambank 3. Soil-Dep.-Damage 4. Water-Quan.-Flooding 5. Water-Quan.-Inad. Out. 6. Plants-Mgmt.-Nutrient 7. Plants-Mgmt.-Pests 	<ol style="list-style-type: none"> 1. 5 T/Ac/Yr soil loss 2. 0 T/Yr soil loss 3. Reduced sediment 4. Improved stream cap. 5. Improved drainage 6. Proper application. 7. Pests controlled 	<ol style="list-style-type: none"> 1. 10 T/Ac/Yr saved 2. 50 T/Yr soil saved 3. Improved drainage 4. Reduced damage/prod. losses 5. Red. ponding/lost prod. 6. Prod./plant needs met 7. Red. comp./Imp. prod. 	

Conservation Management Systems

Certification of Quality Criteria

080A.40.003

GCAZA

GCAZB

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

