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	*for each resource enter available interp data*
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	*list practices in the system*

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 *describe how the practices work together as a system*

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.

14.	RESOURCE CONCERNS	MAGNITUDE/EFFECTS	IMPACTS
	1. Soil-Erosion-Wind	1. 5 T/Ac/Yr soil loss	1. 10 T/Ac/Yr saved
	2. Soil-Eros.-Streambank	2. 0 T/Yr soil loss	2. 50 T/Yr soil saved
	3. Soil-Dep.-Damage	3. Reduced sediment	3. Improved drainage
	4. Water-Quan.-Flooding	4. Improved stream cap.	4. Reduced damage/prod. losses
	5. Water-Quan.-Inad. Out.	5. Improved drainage	5. Red. ponding/lost prod.
	6. Plants-Mgmt.-Nutrient	6. Proper application.	6. Prod./plant needs met
	7. Plants-Mgmt.-Pests	7. Pests controlled	7. Red. comp./Imp. prod.

CRA con't	SYSTEM TEMPLATE LABEL cont'd		
17.	QUALITY CRITERIA DOCUMENTATION *List resource concerns, then indicate yes/no*		
	1. Soil - Erosion - Wind	_X_YES	___NO
	2. Soil - Erosion - Streambank	_X_YES	___NO
	3. Soil - Deposition - Damage	_X_YES	___NO
	4. Water - Quantity - Flooding	_X_YES	___NO
	5. Water - Quantity - Inadequate Outlets	_X_YES	___NO
	6. Plants - Management - Nutrient	_X_YES	___NO
	7. Plants - Management - Pests	_X_YES	___NO

080A.40.003
GCA2A
GCA2B

Conservation Management Systems

Certification of Quality Criteria

RESOURCE CONSIDERATION/PROBLEM	Term Effect Short	Term Effect Long	Meets Quality Criteria Benchmark Yes	Meets Quality Criteria Benchmark No	Meets Quality Criteria Planned Yes	Meets Quality Criteria Planned 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 Short	Term Effect Long	Meets Quality Criteria Benchmark Yes	Meets Quality Criteria Benchmark No	Meets Quality Criteria Planned Yes	Meets Quality Criteria Planned 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

080A.40.003
GCA2A
GCA2B

Conservation Practice Physical Effects on Resource Concerns
Candidate Practice List

State	Oklahoma	Field Office		MLRA	80A

Soil Interpretations

Resource Concerns / Cons. Practices	SOIL Erosion Wind	SOIL Erosion Streambank	SOIL Deposition Damage (On)	WATER Quantity Flooding	WATER Quantity Inad. Outlets	PLANTS Management Nutrient	PLANTS Management Pest			
328	+	0	+	+	0	0	0			
329B	+	0	+	+	0	0	0			
342	+	+	+	+	0	+	N/A			
* 380	+	+	+	0	0	0	0			
393	+	+	+	N/A	0	N/A	–			
391	+	+	+	+	0	0	–			
580	0	+	+	+	+	0	0			
344	+	0	+	+	0	0	–			
* 589B	+	0	+	0	0	0	0			
* 590	0	0	0	0	0	+	0			
* 595	0	0	0	0	0	0	+			
512	+	+	+	+	+	+	+			
* 550	+	+	+	+	+	N/A	+			

* Not in FOT6, Sec. V