MANAGEMENT SYSTEM TEMPLATE

B. CONSERVATION MANAGEMENT SYSTEM OPTIONS WORKSHEET

1.	STATE	Oklahoma
2.	FIELD OFFICE	Bristow, Chandler, Guthrie, Oklahoma City, Pawhuska, Pawnee, Perry and Stillwater
3.	MLRA	84A
4.	COMMON RESOURCE AREA (CRA)	084A.40.001
5.	RESOURCE INTERPRETATIONS	*for each resource enter available interp data*
5.1	SOIL	Soils Legend, Technical/Non-Technical Soils Interpretations
5.2	WATER	Water Quantity and Quality Interpretations/Water Budgets
5.3	AIR	
5.4	PLANT	Cropland Interpretations
5.5	ANIMAL	Threatened & Endangered Species List, Wildlife Interpretations
5.6	HUMAN	
6.	HYDROLOGIC UNIT	
7.	SYSTEM TEMPLATE LABEL	IAAZB
8.	SYSTEM NAME	(84A) Continuous Wheat, Grain Sorghum &/or Forage Sorghum
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. (362) Diversion
5. (393) Filter Strip
6. (391) Riparian Forest Buffer
7. (580) Streambank & Shoreline Protection
8. (344) Residue Management, Seasonal
9. (410) Grade Stabilization Structure
10. (590) Nurtient Management
11. (595) Pest Management
12. (512) Pasture & Hayland Planting
13. (550) Range Seeding
14. (412) Grassed Waterway
15. (600) Terrace

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 soils varying in depth, texture and slope. Crop rotation, pest and residue management will aid in breaking weedy pest cycles. Waterways, terraces, diversions, grade stabilization structures, filter strips, riparian forest buffers, streambank protection and/or critical area planting will reduce erosion (sheet, rill, ephemeral and gully), protect natural drains from sedimentation and flooding. Crop rotation to deep rooted perennial crops, residue management and/or conservation tillage will aid in erosion control, improved soil tilth and reduced compaction. Pasture and range seeding will provide an alternative to cropland to provide protection from erosion. 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-Sheet/Rill	1. 4 T/Ac/Yr soil loss	1. 4 T/Ac/Yr saved
2. Soil-Erosion-Ephemeral	2. 0 T/Ac/Yr soil loss	2. 1 T/Yr soil saved
3. Soil-Erosion-Gully	3. 0 T/Ac/Yr soil loss	3. 50 T/Yr soil saved
4. Soil-Cond.-Tilth	4. Incr. OM/Impr. tilth	4. Soil Cond. Index >0.0
5. Soil-Cond.-Compaction	5. Reduced compaction	5. Imp. plant growth and vigor
6. Water-Quant.-Flooding	6. Improved stream cap.	6. Reduced damage/prod. losses
7. Plants-Mgmt.-Nutrient	7. Proper application	7. Prod./plant needs met
8. Plants-Mgmt.-Pests	8. Proper application	8. 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 - Sheet and Rill	_X_YES	___NO
	2. Soil - Erosion - Ephemeral	_X_YES	___NO
	3. Soil - Erosion - Gully	_X_YES	___NO
	4. Soil - Condition - Tilth	_X_YES	___NO
	5. Soil - Condition - Compaction	_X_YES	___NO
	6. Water - Quantity - Flooding	_X_YES	___NO
	7. Plants - Management - Nutrient	_X_YES	___NO
	8. Plants - Management - Pests	_X_YES	___NO

Conservation Management Systems

Certification of Quality Criteria

084A.40.001
IAA2A
IAA2B

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			✓			
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

084A.40.001
IAA2A
IAA2B

Conservation Practice Physical Effects on Resource Concerns
Candidate Practice List

State	Oklahoma	Field Office		MLRA	84A

Soil Interpretations

Resource Concerns / Cons. Practices	SOIL Erosion Sheet & Rill	SOIL Erosion Ephemeral	SOIL Erosion Gully	SOIL Condition Tilth	SOIL Condition Compaction	WATER Quantity Flooding	PLANT Management Nutrient	PLANT Management Pest.		
* 328	+	+	+	+	+	+	0	0		
329B	+	+	+	+	+	+	0	0		
342	+	+	+	+	+	+	+	N/A		
362	+	+	+	−	−	+	N/A	N/A		
393	+	+	+	0	0	N/A	N/A	−		
* 391	N/A	N/A	N/A	N/A	N/A	+	N/A	N/A		
580	N/A	0	0	N/A	N/A	+	0	0		
344	+	+	+	+	0	+	0	−		
* 410	N/A	0	+	N/A	N/A	+	N/A	N/A		
* 590	N/A	N/A	N/A	N/A	N/A	N/A	+	N/A		
* 595	N/A	N/A	N/A	N/A	N/A	N/A	N/A	+		
512	+	+	+	+	+	+	+	+		
* 550	+	+	+	+	+	+	N/A	+		
412	0	+	+	0	0	+	N/A	−		
600	+	+	0	−	−	0	0	0		

* Not in FOTG, Sec. V