MANAGEMENT SYSTEM TEMPLATE

B. CONSERVATION MANAGEMENT SYSTEM OPTIONS WORKSHEET

1.	STATE	Oklahoma
2.	FIELD OFFICE	Altus
3.	MLRA	78C Central Rolling Red Plains
4.	COMMON RESOURCE AREA (CRA)	078C.40.025
5.	RESOURCE INTERPRETATIONS	*for each resource enter available interp data*
5.1	SOIL	Technical and Nontechnical Interpretations Cropland Interpretations Oklahoma Irrigation Guide
5.2	WATER	Water Quality and Quantity Interpretations Oklahoma Irrigation Guide
5.3	AIR	N/A
5.4	PLANT	Cropland Interpretations
5.5	ANIMAL	N/A
5.6	HUMAN	N/A
6.	HYDROLOGIC UNIT	111020202016, 030, 11120303040
7.	SYSTEM TEMPLATE LABEL	FYAZ1
8.	SYSTEM NAME	Cropland, Master CMS
9.	PLANNING PHASE	Non-Benchmark
10.	PLANNING LEVEL	Resource Management System
11.	NRCS LANDUSE	CROP
12.	PLANNED CONSERVATION PRACTICES	*list practices in the system*

1. 320 Irrigation Canal or Lateral
2. 328 Conservation Crop Rotation
3. 344 Residue Management, Seasonal
4. 430 Pipeline
5. 443 Irrigation System - Surface or Subsurface
6. 447 Irrigation System - Tailwater Recovery
7. 449 Irrigation Water Management
8. 464 Irrigation System Land Leveling
9. 595 Pest Management
10. 606 Subsurface Drainage System

13. SYSTEM NARRATIVE *describe how the practices work together as a system*

This conservation management system consist of cropland planted to cotton or peanuts on sandy loam to clayey loam upland soils. This area corresponds to the boundaries of the Lugert-Altus Irrigation District. Virtually all of the cropland in this area is furrow irrigated from canals that are supplied by the Lugert-Altus Reservoir. Cotton is grown continuously in very intensely managed systems. Installation and maintenance of properly designed lined canals, pipelines, tailwater recovery systems, and water management will conserve water, improve surface water quality, and provide sustainability of the agriculture in this area. Erosion will be reduced by proper watering techniques and residue management. Soil conditions will be improved through less tillage and residue management. Surface water quality will be improved by more efficient use of agricultural chemicals and tailwater recovery systems. Air quality off-site will be improved by applying chemicals more efficiently and according to label directions.

14. RESOURCE CONCERNS	MAGNITUDE/EFFECTS	IMPACTS
1. Rill Erosion	1. Soil Loss < 5 tons/acre/year	1. Soil Loss reduced by 2 tons/acre/year
2. Plow Pans	2. Water Intake Rates > 1.0 inches/hour	2. Water Intake Rates Increased by 0.8 inches/hour
3. Surface Water	3. Improved Surface Water Quality	3. Treated Acres Do Not Contribute to Surface Water Contamination
4. Chemical Drift	4. No Health Hazards Downwind	4. Treated Acres Do Not Contribute to Reduced Off-Site Air Quality
5. High Water Table, (Irrigation Induced)	5. Crop Production is 100% of Potential	5. High Water Table Does Not Limit Crop Production
6.	6.	6.
7.	7.	7.

CRA con't	SYSTEM TEMPLATE LABEL cont'd		
17.	QUALITY CRITERIA DOCUMENTATION *List resource concerns, then indicate yes/no*		
	1.Rill Erosion	_X_ YES	___ NO
	2.Plow Pans	_X_ YES	___ NO
	3.Surface Water Contamination	_X_ YES	___ NO
	4.Chemical Drift	_X_ YES	___ NO
	5.High Water Table (Irrigation Induced)	_X_ YES	___ NO
	6.	___ YES	___ NO
	7.	___ YES	___ NO
	8.	___ YES	___ NO
	9.	___ YES	___ NO
	10.	___ YES	___ NO

Conservation Practice Physical Effects on Resource Concerns
Candidate Practice List

State	Oklahoma	Field Office	Altus	CRA	078C.40.025	System Template Label	FYAZ1
Soil Interpretations	Technical and Nontechnical Interpretations, Cropland Interpretations, Oklahoma Irrigation Guide						

Resource Concerns / Conservation Practices	Rill Erosion	Plow Pans	Surface Water Quality	Chemical Drift	High Water Table - Irr. Induced			
320 Irrigation Canal or Lateral	N/A	N/A	+ + +	N/A	+			
328 Conservation Crop Rotation	+ +	+ +	+ +	+ +	+ +			
344 Residue Mgmt - Seasonal	+ +	+ + +	+ + +	+ +	+			
430 Pipeline	N/A	N/A	N/A	N/A	N/A			
443 Irr. Sys. - Surface & Subsurf.	N/A	+	+ +	N/A	+			
447 Irr. System, Tailwater Recov.	N/A	N/A	+ + +	N/A	+ +			
449 Irrigation Water Management	N/A	+	+ + +	N/A	+ +			
464 Irrigation Land Leveling	+ + +	N/A	+	N/A	+			
595 Pest Management	N/A	N/A	+ + +	+ + +	N/A			
606 Subsurface Drainage System	N/A	+	N/A	N/A	+ + +			

RATINGS:

Not Applicable	=	N/A	Slight	=	+ or -
Negligible	=	0	Moderate	=	+ + or --
Facilitating	=	F	Significant	=	+ + + or ---