

MANAGEMENT SYSTEM TEMPLATE

B. CONSERVATION MANAGEMENT SYSTEM OPTIONS WORKSHEET

1.	STATE	Oklahoma		
2.	FIELD OFFICE	Anadarko, Chickasha, Clinton, Duncan, Lawton, Norman, Pauls Valley, Walters, Waurika		
3.	MLRA	80A Central Rolling Red Prairies		
4.	COMMON RESOURCE AREA (CRA)	080A.40.010		
5.	RESOURCE INTERPRETATIONS	<i>for each resource enter available interp data</i>		
5.1	SOIL	Technical and Nontechnical Interpretations Cropland Interpretations		
5.2	WATER	Water Quality and Quantity Interpretations		
5.3	AIR	N/A		
5.4	PLANT	Cropland Interpretations		
5.5	ANIMAL	N/A		
5.6	HUMAN	N/A		
6.	HYDROLOGIC UNIT	Combines What Was Map Areas 36 and 45 in Caddo, Cleveland, Comanche, Cotton, Custer, Garvin, Grady, Jefferson, and Stephens Counties into a New Map Area 45 (080A.40.010)		
7.	SYSTEM TEMPLATE LABEL	GJAZ1		
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	<i>list practices in the system</i>		
		<ol style="list-style-type: none"> 1. 328 Conservation Crop Rotation 2. 330 Contour Farming 3. 340 Cover and Green Manure Crop 4. 344 Residue Management, Seasonal 5. 362 Diversion 6. 380 Windbreak/Shelterbelt Establishment 7. 412 Grassed Waterway 8. 442 Irrigation System - Sprinkler 9. 449 Irrigation Water Management 10. 589 Stripcropping - Wind 11. 590 Nutrient Management 12. 600 Terrace 13. 610 Toxic Salt Reduction 		
13.	SYSTEM NARRATIVE	<i>describe how the practices work together as a system</i>		
		<p>This conservation management system consist of cultivated crops such as peanuts, cotton, small grains, grain sorghum, and alfalfa planted on loamy and sandy upland soils. Sprinkler irrigation systems are common. Most irrigation water comes from wells. Soil structure will be improved and wind and water erosion will be reduced with planting of crops selected for site conditions and client's needs, use of high residue cover crops, and management of crop residues. Terraces, diversions, waterways, and contour farming will reduce erosion from sheet and rill erosion and ephemeral gully erosion. Proper design, installation and operation of irrigation systems will improve residue production and modify soil surface conditions to prevent erosion. An irrigation plan will be developed that will recommend irrigation water management methods. Critical erosion from oil field sites will be eliminated by diverting overhead water, shaping and vegetation. Contaminated soil will be removed, buried, or treated to restore the soil's production capability. Strip cropping and shelterbelts will be established to prevent wind erosion. Fertilizer will be applied as recommended by soil tests and the plants needs for growth and maintenance without leaching or runoff of excess.</p>		
14.	RESOURCE CONCERNS	MAGNITUDE/EFFECTS	IMPACTS	
	<ol style="list-style-type: none"> 1. Plow Pans 2. Wind Erosion 	<ol style="list-style-type: none"> 1. Soil Water Intake > 1.0 inches/hour 2. Soil Loss < 5 tons/acre/year 	<ol style="list-style-type: none"> 1. Soil Water Intake Rates Increased By 0.5 inches/hour 2. Soil Loss Reduced By 3 tons/acre/year 	

3.	Sheet and Rill Erosion	3.	Soil Loss < 5 tons/acre/year	3.	Soil Loss Reduced By 3 tons/acre/year
4.	Ephemeral Gully Erosion	4.	Soil Loss = 0 tons/year	4.	Soil Loss Reduced By 50 tons/year
5.	Irrigation Water Management	5.	Irrigation Water Use Efficiency > 80%	5.	Irrigation Water Use Efficiency Increased By 30%
6.	Oil Field Erosion	6.	Soil Loss = 0 tons/year	6.	Soil Loss Reduced By 20 tons/year
7.	Soil Contamination Oil Field	7.	Crop Production Is 100% Of Potential	7.	Crop Production Is Not Limited By Soil Contamination
8.		8.		8.	
9.		9.		9.	
10.		10.		10.	

CRA con't	SYSTEM TEMPLATE LABEL cont'd	
17.	QUALITY CRITERIA DOCUMENTATION <i>List resource concerns, then indicate yes/no</i>	
	1.Plow Pans	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
	2.Wind Erosion	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
	3.Sheet and Rill Erosion	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
	4.Irrigation Water Management	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
	5.Oil Field Erosion	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
	6.Soil Contamination - Oil Field	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
	7.	<input type="checkbox"/> YES <input type="checkbox"/> NO
	8.	<input type="checkbox"/> YES <input type="checkbox"/> NO
	9.	<input type="checkbox"/> YES <input type="checkbox"/> NO
	10.	<input type="checkbox"/> YES <input type="checkbox"/> NO

Conservation Practice Physical Effects on Resource Concerns Candidate Practice List

State	Oklahoma	Field Office	Anadarko, Chickasha, Clinton, Duncan, Lawton, Norman, P.V. Waters, Wash.				MLRA	80A	System Template Label	GJAZ1
Soil Interpretations		Technical and Nontechnical Interpretations, Cropland Interpretations								
Resource Concerns	Soil Compaction	Wind Erosion	Sheet and Rill Erosion	Ephemeral Gully Erosion	Irrigation Water Management	Oil Field Erosion	Soil Contamination Oil Field			
Conservation Practices										
328 Conservation Crop Rotation	+	++	+	+	N/A	+	N/A			
330 Contour Farming	N/A	0	+++	+++	N/A	N/A	N/A			
340 Cover & Green Manure Crop	++	+++	++	++	N/A	+	+			
344 Residue Mngmt-Seasonal	+	+++	+++	++	++	++	+			
362 Diversion	N/A	N/A	0	+++	0	+++	N/A			
380 Windbreak Establishment	N/A	+++	N/A	N/A	N/A	N/A	N/A			
412 Grassed Waterway	N/A	N/A	+++	+++	N/A	++	N/A			
442 Irr. System - Sprinkler	+	++	++	++	+++	N/A	N/A			
449 Irr. Water Management	+	++	++	++	+++	N/A	N/A			
589 Stripcropping - Wind	N/A	+++	N/A	N/A	0	N/A	N/A			
590 Nutrient Management	N/A	+++	+++	++	N/A	N/A	N/A			
600 Terrace	N/A	N/A	+++	+++	N/A	+++	N/A			
610 Toxic Salt Reduction	N/A	N/A	N/A	N/A	+	+++	+++			

RATINGS :

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