

MANAGEMENT SYSTEM TEMPLATE

B. CONSERVATION MANAGEMENT SYSTEM OPTIONS WORKSHEET

1	STATE	OKLAHOMA
2	FIELD OFFICE	Antlers, Atoka, Durant, Hugo, Idabel, Tishomingo
3	MLRA	133B
4.	COMMON RESOURCE AREA (CRA)	133B.40.001
5	RESOURCE INTERPRETATIONS	<i>see Section II FOTG for interpretations</i>
5.1	SOIL	FOTG, SECTION I - EROSION PREDICTION FOTG, SECTION II - SOILS LEGENDS FOTG, SECTION II - SOIL DESCRIPTIONS - NONTECHNICAL FOTG, SECTION II - SOIL DESCRIPTIONS - TECHNICAL FOTG, SECTION II - HYDRIC SOIL INTERPRETATIONS FOTG, SECTION II - NONAGRICULTURAL INTERPRETATIONS FOTG, SECTION II - ENGINEERING INTERPRETATIONS FOTG, SECTION II - WASTE DISPOSAL INTERPRETATIONS FOTG, SECTION III - RESOURCE MANAGEMENT SYSTEMS - SOIL FOTG, SECTION V-A-1 - EFFECTS FOR CMS FORMULATION - SOIL FOTG, SECTION V-B - EFFECT FOR DECISIONMAKING
5.2	WATER	FOTG, SECTION I - CLIMATIC DATA FOTG, SECTION I - STATE/LOCAL LAWS, ORDINANCES, REGULATIONS FOTG, SECTION II - WATER QUANTITY AND QUALITY INTERPRETATIONS FOTG, SECTION II - NONAGRICULTURAL INTERPRETATIONS FOTG, SECTION II - WASTE DISPOSAL INTERPRETATIONS FOTG, SECTION III - RESOURCE MANAGEMENT SYSTEMS - WATER FOTG, SECTION V-A-1 - EFFECTS FOR CMS FORMULATION - WATER
5.3	AIR	FOTG, SECTION I - CLIMATIC DATA FOTG, SECTION I - STATE/LOCAL LAWS, ORDINANCES, REGULATIONS FOTG, SECTION III - RESOURCE MANAGEMENT SYSTEMS - AIR FOTG, SECTION V-A-1 - EFFECTS FOR CMS FORMULATION - AIR
5.4	PLANT	FOTG, SECTION II - FORESTLAND INTERPRETATIONS FOTG, SECTION II - PASTURELAND AND HAYLAND INTERPRETATIONS FOTG, SECTION II - WINDBREAK INTERPRETATIONS FOTG, SECTION III - RESOURCE MANAGEMENT SYSTEMS - PLANTS FOTG, SECTION V-A-1 - EFFECTS FOR CMS FORMULATION - PLANTS
5.5	ANIMAL	FOTG, SECTION I - THREATENED AND ENDANGERED SPECIES LIST FOTG, SECTION I - STATE/LOCAL LAWS, ORDINANCES, REGULATIONS FOTG, SECTION II - WILDLIFE INTERPRETATIONS FOTG, SECTION III - RESOURCE MANAGEMENT SYSTEMS - ANIMALS FOTG, SECTION V-A-1 - EFFECTS FOR CMS FORMULATION - ANIMALS
5.6	HUMAN	FOTG, SECTION I - COST DATA FOTG, SECTION I - CULTURAL RESOURCE INFORMATION FOTG, SECTION I - STATE/LOCAL LAWS, ORDINANCES, REGULATIONS FOTG, SECTION V-B-1 - PRODUCER EXPERIENCES
6	HYDROLOGIC UNIT	
7	SYSTEM TEMPLATE LABEL	SALZ1
8	SYSTEM NAME	URBAN LAND, ROADS, ETC.
9	PLANNING PHASE	NON-BENCHMARK
10	PLANNING LEVEL	RMS
11	NRCS LANDUSE	URBAN

12	PLANNED CONSERVATION PRACTICES		<i>enter code / name of practice</i>		
	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> 1. 327 - Conservation Cover 2. 342 - Critical Area Planting 3. 362 - Diversion 4. 378 - Pond 5. 380 - Windbreak/Shelterbelt Establishment 6. 382 - Fencing 7. 394 - Firebreak 8. 410 - Grade Stabilization Structure 9. 412 - Grassed Waterway 10. 484 - Mulching </td> <td style="width: 50%; vertical-align: top;"> 11. 512 - Pasture and Hayland Planting 12. 528A - Prescribed Grazing 13. 560 - Access Road 14. 561 - Heavy Use Area Protection 15. 590 - Nutrient Management 16. 595 - Pest Management 17. 606 - Subsurface Drain 18. 612 - Tree/Shrub Establishment 19. 642 - Well 20. 660 - Tree/Shrub Pruning </td> </tr> </table>			1. 327 - Conservation Cover 2. 342 - Critical Area Planting 3. 362 - Diversion 4. 378 - Pond 5. 380 - Windbreak/Shelterbelt Establishment 6. 382 - Fencing 7. 394 - Firebreak 8. 410 - Grade Stabilization Structure 9. 412 - Grassed Waterway 10. 484 - Mulching	11. 512 - Pasture and Hayland Planting 12. 528A - Prescribed Grazing 13. 560 - Access Road 14. 561 - Heavy Use Area Protection 15. 590 - Nutrient Management 16. 595 - Pest Management 17. 606 - Subsurface Drain 18. 612 - Tree/Shrub Establishment 19. 642 - Well 20. 660 - Tree/Shrub Pruning
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13	SYSTEM NARRATIVE	<i>describe how the practices work together as a system</i>			
	<p>These areas consist of urban and suburban area where homes and businesses have been constructed on relatively small tracts of land and/or much of the soil surface is covered by concrete or rooftops. It also includes federal and state highways, as well as county roads. Construction of grassed waterways along roadsides will help resolve many of the roadside erosion problems. This will require a cooperative effort between both the landowner and the County Commissioners, with technical assistance provided by NRCS and/or the Oklahoma Department of Transportation. Grade stabilization structures may also be required in some situations. These structures will result in a reduction in erosion and sedimentation. Erosion associated with business and housing construction can be controlled by applying a conservation cover, constructing diversions where needed, mulching, planting grass, installing grade stabilization structures, and planting critical areas. Soil saturation problems can be treated with subsurface drains and by constructing diversion to re-route overhead water.</p>				
14	RESOURCE CONCERNS	MAGNITUDE/EFFECTS	IMPACTS		
	1. Sheet and Rill Erosion	1. By applying a conservation cover during business or housing construction, planting critical areas, installing grade stabilization structures and diversions where needed, mulching as needed, and establishing a permanent cover of grass, trees and shrubs when construction is complete, sheet and rill erosion can be reduced to minimum levels.	1. A reduction in erosion of 7 to 9 tons/acre/year or more. Sustained soil resource.		
	2. Ephemeral Gully Erosion	2. Establishing a conservation cover, mulching and constructing diversions as needed will eliminate ephemeral gully erosion on construction sites in most cases.	2. A reduction in erosion of 1 to 2 tons/acre/year or more.		
	3. Classic Gully Erosion	3. Classic gullies can be treated using critical area planting techniques. Classic gully erosion can be curbed by establishing a conservation cover and mulching during business or housing construction, then establishing a permanent cover of grass, trees and shrubs when construction is complete. Grade stabilization structures may also be needed on some site.	3. Reduction in erosion from 14 to 19 tons/year or more and acres affected by gully erosion reduced to near 0 for each mile of county road.		

	4. Roadbanks, Et. Al. Erosion	4. By constructing and vegetating roadside waterways, roadbank and barrow ditch erosion can be reduced to minimal levels. Construction of grade stabilization structures may also be needed on some sites.	4. Reduction in roadside erosion. Reduction in county road maintenance costs. Improved driving conditions on county roads during inclement weather.
	5. Soil Deposition Causing Off-site Damage	5. By treating roadside erosion problems with grassed waterways and grade stabilization structures, soil deposition should be reduced to minimal levels.	5. No offsite damage from soil deposition after practices are fully implemented.
	6. Soil Deposition Causing On-site Damage	6. By treating roadside erosion problems with grassed waterways and grade stabilization structures, soil deposition should be reduced to minimal levels.	6. No onsite damage from soil deposition after practices are fully implemented.
	7. Soil Saturation	7. By installing subsurface drainage systems and constructing diversions where needed, soil saturation can be controlled.	7. Reduction or elimination of the effects of soil saturation.
	8. Nutrient Management	8. Nutrients (especially nitrogen) will be applied according to current soil test recommendations. Nitrogen applications should be split and applied monthly and only if adequate soil moisture exists or irrigation is to be applied where higher N application is being done.	8. Reduced risk of contamination of water resources. Better utilization of nitrogen fertilizer by plants.
CRA	133B.40.001	SYSTEM TEMPLATE LABEL	
15	* QUALITY CRITERIA DOCUMENTATION <i>list resource concerns then indicate yes/no (X)</i>		
	1. Sheet and Rill Erosion 2. Ephemeral Gully Erosion 3. Classic Gully Erosion 4. Roadbanks, Et. Al. Erosion 5. Soil Deposition Causing Off-site Damage 6. Soil Deposition Causing On-site Damage 7. Soil Saturation 8. Nutrient Management	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	

* Provides an indication that the resource quality criteria will be met.

**Conservation Practice Physical Effects on Resource Concerns
Candidate Practice List**

State	Oklahoma	Field Office	Antlers, Atoka, Durant, Hugo, Idabel, Tishomingo	MLRA	133B	System Template Label	SALZ1
Soil Interpretations							

Resource Concerns	Sheet and Rill Erosion	Ephemeral Gully Erosion	Classic Gully Erosion	Roadbanks, Et. Al. Erosion	Soil Deposition Causing Off-site Damage	Soil Deposition Causing On-site Damage	Soil Saturation	Nutrient Management
Conservation Practices								
327-Conservation Cover	+++	+++	+++	+++	+++	+++	+	++
342-Critical Area Planting	++	++	+++	+++	+++	+++	+	+
362-Diversion	++	++	+++	+	+	++	+++	N/A
378-Pond	0	0	++	+	++	++	0	N/A
380-Windbreak/Shelterbelt Estab.	+	+	+	++	++	++	++	+
382-Fencing	N/A	N/A	F+	F+	N/A	N/A	N/A	N/A
394-Firebreak	0	0	0	0	0	0	0	0
410-Grade Stabilization Structure	+	+	+++	+++	+++	+++	0	N/A
412-Grassed Waterway	++	++	+++	+++	++	++	++	+
484-Mulching	+++	+++	+++	+++	+++	+++	+	+++
512-Pasture & Hayland Planting	+++	+++	+++	+++	+++	+++	++	+++
528A-Prescribed Grazing	++	++	++	++	++	++	+	+++
560-Access Road	N/A	N/A	-	++	-	-	0	N/A

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

