

MANAGEMENT SYSTEM TEMPLATE

B. CONSERVATION MANAGEMENT SYSTEM OPTIONS WORKSHEET

1.	STATE	OK
2.	FIELD OFFICE	Marietta, Ardmore, Tishomingo, Madill, Waurika
3.	MLRA	84B - West Cross Timbers
4.	COMMON RESOURCE AREA (CRA)	084B.40.001
5.	RESOURCE INTERPRETATIONS	<i>for each resource enter available interp data</i>
5.1	SOIL	
5.2	WATER	
5.3	AIR	
5.4	PLANT	
5.5	ANIMAL	
5.6	HUMAN	
6.	HYDROLOGIC UNIT	
7.	SYSTEM TEMPLATE LABEL	JADZ4
8.	SYSTEM NAME	West Cross Timbers Grazed Range
9.	PLANNING PHASE	Benchmark, Alternative, Planned
10.	PLANNING LEVEL	Resource Management System
11.	NRCS LANDUSE	Grazed Range
12.	PLANNED CONSERVATION PRACTICES	<i>list practices in the system</i>
		<ol style="list-style-type: none"> 1. 197 - Riparian Forest Buffer 2. 314 - Brush Management 3. 338 - Prescribed Burning 4. 342 - Critical Area Planting 5. 362 - Diversion 6. 378 - Pond 7. 382 - Fencing 8. 399 - Fishpond Management 9. 410 - Grade Stabilization Structure 10. 516 - Pipeline 11. 528A - Prescribed Grazing 12. 550 - Range Seeding 13. 560 - Access Road 14. 574 - Spring Development 15. 580 - Streambank and Shoreline Protection 16. 595 - Pest Management 17. 614 - Trough or Tank 18. 642 - Well
13.	SYSTEM NARRATIVE	<i>describe how the practices work together as a system</i>
		<p>Grazed range can be a most challenging resource, both by character as well as treatment. This system includes prescribed grazing, range seeding, prescribed burning, fencing, ponds, wells, pipelines, troughs or tanks, spring development, and fishpond management. The treatment practices for reducing gully erosion are grade stabilization structures, diversion terraces, and critical area planting. Streambank and scour erosion as well as on-site deposition occurs along streams and drainageways where out-of-bank flow takes place. Practices recommended for control may include riparian forest buffers, range seeding, critical area planting, pest management, prescribed grazing, and streambank and shoreline protection. The land treatment practices are designed to reduce the rate of runoff waters, increase water infiltration, reduce erosion and restore the vegetation. Pest management and brush management activities will be performed when pest levels reach their economic thresholds. All management activities (including chemical, mechanical and biological means) to reduce pest levels are most effective when the appropriate timing and application techniques are followed. Animal populations are generally found to be out of balance with the forage resources, causing plant establishment, growth and harvest to be affected. Practices recommended to overcome this are prescribed grazing, pest management, range seeding and prescribed burning. Numerous other practices or combinations of practices may also be utilized to accelerate the system application. Domestic animal water</p>

13.	SYSTEM NARRATIVE <i>describe how the practices work together as a system</i> requirements, if not supplied by naturally occurring sources, will typically be addressed by constructing ponds. In certain locations, spring developments, wells, pipelines, and troughs or tanks will be used to supply the domestic animal watering sources. Treatments which are cost effective and sensitive to the environment are of the most importance. Prescribed grazing, better distribution of the grazing animals, prescribed burning, and appropriate timing of the application of these practices will go a long way toward improving the plant resources and vigor of the existing range. Improving range can be a slow process. Special care to develop treatment alternatives that are cost effective will need to be exercised.																
14.	RESOURCE CONCERNS	MAGNITUDE/EFFECTS	IMPACTS														
	<ol style="list-style-type: none"> 1. Soil Erosion - Concentrated Flow Classic Gullies 2. Soil Erosion - Streambank 3. Soil Erosion - Scoured Areas 4. Water Quality - Surface Water Contaminates - Suspended Sediment and Turbidity 5. Plants Condition - Plant Productivity 6. Plants Condition - Plant Health and Vigor 7. Plants Management - Establishment, Growth & Harvest 8. Plants Management - Pest (Brush, Weeds, Insects, Etc.) 9. Animal Habitat - Water 10. Animal Management - Population and Resource Balance 11. Human - Economics - Management Level 	<ol style="list-style-type: none"> 1. 3 Tons/Acre/Year 2. 5 Tons/Year 3. 5 Tons/Acre/Year 4. Reduced sediment yields with the reduction in erosion rates. 5. Increased forage production, improved forage quality, reduced pest problems, improved plant vigor. 6. Commencement of prescribed grazing. 7. Better harvest efficiency due to improved prescribed grazing techniques. 8. Decreased pest levels with improved grazing techniques. 9. Ample livestock water sources are provided in each grazing unit. 10. Proper stocking of animals to match the available forage resources. 11. Provide adequate in the field training on all aspects of grazing management. 	<ol style="list-style-type: none"> 1. 97 Tons/Acre/Year; Improvement in water quality through the reduction in erosion, improvement in vegetative cover and plant vigor with the commencement of prescribed grazing, increased input and maintenance costs, long term improved economic returns, extended productive life of the range. 2. 95 Tons/Year; Improved management techniques and vegetative cover with a reduction in soil loss and an improvement in water quality. 3. 45 Tons/Acre/Year; Improvement in vegetative cover with the advent of prescribed grazing techniques, reduction in erosion rates, improved water quality due to less sediment. 4. Improvement in water quality with less suspended sediment and turbidity. 5. Improved forage conditions, improved economic returns. 6. Improved plant health and vigor. 7. Improved plant vigor, regeneration and harvest efficiency. 8. Improved pest management activities, improved economic returns. 9. Improved livestock distribution, improved use of the natural resources, improved economic returns. 10. Improved forage and livestock performance, improved water quality with less erosion, improved economic returns. 11. Improved understanding and knowledge of grazing management techniques and strategies, long term improvement in economic returns stability of the ranch. 														
15.	QUALITY CRITERIA DOCUMENTATION <i>list resource concerns then indicate yes/no</i>																
	<ol style="list-style-type: none"> 1. Soil Erosion - Concentrated Flow Classic Gullies 2. Soil Erosion - Streambank 3. Soil Erosion - Scoured Areas 4. Water Quality - Surface Water Contaminates - Suspended Sediment and Turbidity 5. Plants Condition - Plant Productivity 6. Plants Condition - Plant Health and Vigor 7. Plants Management - Establishment, Growth & Harvest 		<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/> YES</td> <td style="text-align: center;"><input type="checkbox"/> NO</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/> YES</td> <td style="text-align: center;"><input type="checkbox"/> NO</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/> YES</td> <td style="text-align: center;"><input type="checkbox"/> NO</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/> YES</td> <td style="text-align: center;"><input type="checkbox"/> NO</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/> YES</td> <td style="text-align: center;"><input type="checkbox"/> NO</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/> YES</td> <td style="text-align: center;"><input type="checkbox"/> NO</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/> YES</td> <td style="text-align: center;"><input type="checkbox"/> NO</td> </tr> </table>	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO																
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO																
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO																
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO																
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO																
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO																
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO																

15.	QUALITY CRITERIA DOCUMENTATION <i>list resource concerns then indicate yes/no</i>	
	8. Plants Management - Pest (Brush, Weeds, Insects, Etc.) 9. Animal Habitat - Water 10. Animal Management - Population and Resource Balance 11. Human - Economics - Management Level	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

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

State Oklahoma Field Office MLRA 084B.40.001
Soil Interpretations Template Label JADZ

Resource Concerns	Soil Erosion Concentrated Flow Classic Gullies	Soil Erosion Streambank	Soil Erosion Scoured Areas	Water Quality Surf Water Contaminates Susp. Sed. & Turbidity	Plants Condition Plant Productivity	Plants Condition Plant Health & Vigor	Plants Mgmt. Establishment Growth & Harvest	Plants Mgmt. Pest (Brush, Weeds, Insects, Etc.)	Animal Habitat Water	Animal Management Population and Resource Balance	Human Economics Profitability
197	+	+	+	+	+	0	+	0	0	0	+
314	+	0	0	0	+	+	+	+	-	+	+
338	+	0	0	-	+	+	+	+	-	+	+
342	+	+	+	+	+	N/A	+	+	+	+	+
362	+	+	0	+	+	+	+	+	+	+	+
378	+	+	+	+	+	+	+	-	+	+	+
382	+	+	+	+	+	+	+	0	+	+	+
399	N/A	N/A	N/A	+	N/A	N/A	N/A	N/A	+	0	+
410	+	+	+	+	+	+	+	-	+	+	+
516	0	+	+	+	+	+	N/A	N/A	+	+	+
528A	+	+	+	+	+	+	+	+	+	+	+
550	+	+	+	+	+	+	+	+	+	+	+
560	+	+	+	+	+	+	+	+	0	+	+
574	+	0	0	+	+	+	N/A	N/A	+	+	+
580	0	+	+	+	+	+	+	+	0	+	+
595	0	N/A	0	0	+	+	+	0	+	+	+
614	+	+	+	+	+	+	N/A	N/A	+	+	+
642	+	+	+	+	+	+	N/A	N/A	+	+	+

+ = Positive Effect - = Negative Effect 0 = Negligible Effect N/A = Not Applicable