

## MANAGEMENT SYSTEM TEMPLATE

### B. CONSERVATION MANAGEMENT SYSTEM OPTIONS WORKSHEET

1.	STATE	OK
2.	FIELD OFFICE	Ardmore, Sulphur, Tishomingo
3.	MLRA	85B - Arbuckle Mountains
4.	COMMON RESOURCE AREA (CRA)	085B.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	LAJZ1
8.	SYSTEM NAME	Arbuckle Mountains Pasture
9.	PLANNING PHASE	Benchmark, Alternative, Planned
10.	PLANNING LEVEL	Resource Management System
11.	NRCS LANDUSE	Pasture
12.	PLANNED CONSERVATION PRACTICES	<i>list practices in the system</i>
		<ol style="list-style-type: none"> <li>1. 197 - Riparian Forest Buffer</li> <li>2. 314 - Brush Management</li> <li>3. 338 - Prescribed Burning</li> <li>4. 340 - Cover and Green Manure Crop</li> <li>5. 342 - Critical Area Planting</li> <li>6. 356 - Dike</li> <li>7. 362 - Diversion</li> <li>8. 378 - Pond</li> <li>9. 382 - Fencing</li> <li>10. 399 - Fishpond Management</li> <li>11. 410 - Grade Stabilization Structure</li> <li>12. 512 - Pasture and Hayland Planting</li> <li>13. 516 - Pipeline</li> <li>14. 528A - Prescribed Grazing</li> <li>15. 560 - Access Road</li> <li>16. 574 - Spring Development</li> <li>17. 580 - Streambank and Shoreline Protection</li> <li>18. 590 - Nutrient Management</li> <li>19. 595 - Pest Management</li> <li>20. 614 - Trough or Tank</li> <li>21. 642 - Well</li> </ol>
13.	SYSTEM NARRATIVE	<i>describe how the practices work together as a system</i>
		<p>This system includes prescribed grazing, prescribed burning, pasture and hayland planting, fencing, dikes, ponds, wells, pipelines, troughs or tanks, spring development, and fishpond management. Dominant forage species include alfalfa, annual ryegrass, bermudagrass, bahiagrass, introduced bluestems, tall fescue, weeping lovegrass, and adapted legumes. The treatment practices for reducing gully erosion are grade stabilization structures, diversion terraces, and critical area planting. Practices recommended for control of streambank and scour erosion are riparian forest buffers, pasture and hayland planting, critical area planting, nutrient management, pest management, prescribed grazing, dikes, 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. Nutrient management will be applied to prevent an imbalance of plant nutrients based on a soils analysis. Animal populations are generally found to be out of balance with the forage resources, causing</p>

13.	<b>SYSTEM NARRATIVE</b> <i>describe how the practices work together as a system</i>		
	<p>plant establishment, growth and harvest to be affected. Practices recommended to overcome this are prescribed grazing, pest management, pasture and hayland planting, and prescribed burning. Fencing, ponds, spring development, pipelines, wells, and troughs or tanks may also be utilized to accelerate the system application. Domestic animal water 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. With the long history of overgrazing, proper grazing, better distribution, prescribed burning, nutrient management, pest management, and the appropriate timing of the application of these practices will go a long way toward improving the plant resources and vigor of the existing pastures. Improving the pastures can be a slow process. Special care to develop treatment alternatives that are cost effective will need to be exercised.</p>		
14.	<b>RESOURCE CONCERNS</b>	<b>MAGNITUDE/EFFECTS</b>	<b>IMPACTS</b>
	<ol style="list-style-type: none"> <li>1. Soil Erosion - Concentrated Flow Classic Gullies</li> <li>2. Soil Erosion - Streambank</li> <li>3. Soil Erosion - Scoured Areas</li> <li>4. Water Quality - Surface Water Contaminates - Suspended Sediment and Turbidity</li> <li>5. Plants Condition - Plant Productivity</li> <li>6. Plants Condition - Plant Health and Vigor</li> <li>7. Plants Management - Establishment, Growth &amp; Harvest</li> <li>8. Plants Management - Nutrient Management</li> <li>9. Plants Management - Pest (Brush, Weeds, Insects, Etc.)</li> <li>10. Animal Habitat - Water</li> <li>11. Animal Management - Population and Resource Balance</li> <li>12. Human - Economics - Management Level</li> </ol>	<ol style="list-style-type: none"> <li>1. 3 Tons/Acre/Year</li> <li>2. 5 Tons/Year</li> <li>3. 5 Tons/Acre/Year</li> <li>4. Reduced sediment yields with the reduction in erosion rates.</li> <li>5. Increased forage production, improved forage quality, reduced pest problems, improved plant vigor.</li> <li>6. Commencement of prescribed grazing.</li> <li>7. Better harvest efficiency due to improved prescribed grazing techniques.</li> <li>8. Proper fertility applications based on yield goals and the use of a current soil analysis. Proper timing and techniques used for all applications.</li> <li>9. Decreased pest levels with improved grazing techniques.</li> <li>10. Ample livestock water sources are provided in each grazing unit.</li> <li>11. Proper stocking of animals to match the available forage resources.</li> <li>12. Provide adequate in the field training on all aspects of grazing management.</li> </ol>	<ol style="list-style-type: none"> <li>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 and nutrient management, increased input and maintenance costs, long term improved economic returns, extended productive life of the pastures.</li> <li>2. 95 Tons/Year; Improved management techniques and vegetative cover with a reduction in soil loss and an improvement in water quality.</li> <li>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.</li> <li>4. Improvement in water quality with less suspended sediment and turbidity.</li> <li>5. Improved forage conditions, improved economic returns.</li> <li>6. Improved plant health and vigor.</li> <li>7. Improved plant vigor, regeneration and harvest efficiency.</li> <li>8. Plant nutrient needs are met due to improved nutrient management practices. Increased forage production. Increased economic inputs, but an overall increase in economic returns due to the increase in plant condition and forage production. Improved animal health and condition.</li> <li>9. Improved pest management activities, improved economic returns.</li> <li>10. Improved livestock distribution, improved use of the natural resources, improved economic returns.</li> <li>11. Improved forage and livestock performance, improved water quality with less erosion, improved economic returns.</li> <li>12. Improved understanding and knowledge of grazing management techniques and strategies, long term improvement in economic returns stability of the farm or ranch.</li> </ol>

15.	<b>QUALITY CRITERIA DOCUMENTATION</b> <i>list resource concerns then indicate yes/no</i>																							
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**Conservation Practice Physical Effects on Resource Concerns  
Candidate Practice List**

State Oklahoma Field Office MLRA 085B.40.001  
Soil Interpretations Template Label LAJZ

Resource Concerns	Soil Erosion Concentrated Flow Classic Gullies	Soil Erosion Streambank	Soil Erosion Scoured Areas	Water Quality Surf Water Contaminates Susp. Sol. & Turbidity	Plants Condition Plant Productivity	Plants Condition Plant Health & Vigor	Plants Mgmt. Establishment Growth & Harvest	Plants Mgmt. Nutrient Management	Plants Mgmt. Pest (Brush, Weeds, Insects, Etc.)	Animal Habitat Water	Animal Management Population and Resource Balance	Human Economics Profitability
197	+	+	+	+	+	0	+	0	0	0	0	+
314	+	0	0	0	+	+	+	N/A	+	-	+	+
338	+	0	0	-	+	+	+	N/A	+	-	+	+
340	+	0	+	+	+	N/A	+	+	+	+	+	+
342	+	+	+	+	+	N/A	+	N/A	+	+	+	+
356	+	+	0	+	+	+	+	N/A	+	+	+	+
362	+	+	0	+	+	+	+	N/A	+	+	+	+
378	+	+	+	+	+	+	+	N/A	-	+	+	+
382	+	+	+	+	+	+	+	N/A	0	+	+	+
399	N/A	N/A	N/A	+	N/A	N/A	N/A	N/A	N/A	+	0	+
410	+	+	+	+	+	+	+	N/A	-	+	+	+
512	+	+	+	+	+	+	+	+	+	+	+	+
516	0	+	+	+	+	+	N/A	N/A	N/A	+	+	+
528A	+	+	+	+	+	+	+	+	+	+	+	+
560	+	+	+	+	+	+	+	N/A	+	0	+	+
574	+	0	0	+	+	+	N/A	N/A	N/A	+	+	+
580	0	+	+	+	+	+	+	N/A	+	0	+	+
590	0	0	0	0	+	+	+	N/A	+	0	+	+
595	0	N/A	0	0	+	+	+	N/A	0	+	+	+
614	+	+	+	+	+	+	N/A	N/A	N/A	+	+	+
642	+	+	+	+	+	+	N/A	N/A	N/A	+	+	+

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