MANAGEMENT SYSTEM TEMPLATE

B. CONSERVATION MANAGEMENT SYSTEM OPTIONS WORKSHEET

1.	STATE	Oklahoma
2.	FIELD OFFICE	Bristow, Chandler, El Reno, Enid, Guthrie, Kingfisher, Medford, Newkirk, Oklahoma City, Pawhuska, Pawnee, Perry and Stillwater
3.	MLRA	80A
4.	COMMON RESOURCE AREA (CRA)	080A.40.001
5.	RESOURCE INTERPRETATIONS	*for each resource enter available interp data*
5.1	SOIL	Soils Legend, Technical/Non-Technical Soils Interpretations
5.2	WATER	Water Quantity and Quality Interpretations/Water Budgets
5.3	AIR	
5.4	PLANT	Pastureland Interpretations
5.5	ANIMAL	Threatened & Endangered Species List, Wildlife Interpretations
5.6	HUMAN	
6.	HYDROLOGIC UNIT	
7.	SYSTEM TEMPLATE LABEL	GAJZB
8.	SYSTEM NAME	(80A) Bermudagrass & Old World Bluestem Mgmt.
9.	PLANNING PHASE	Non-benchmark
10.	PLANNING LEVEL	RMS
11.	NRCS LANDUSE	Pasture
12.	PLANNED CONSERVATION PRACTICES	*list practices in the system*

1. (342) Critical Area Planting
2. (382) Fencing
3. (338) Prescribed Burning
4. (528A) Prescribed Grazing
5. (362) Diversion
6. (580) Streambank and Shoreline Protection
7. (614) Trough or Tank
8. (590) Nutrient Management
9. (595) Pest Management
10. (642) Well
11. (516) Pipeline for Livestock
12. (378) Pond
13. (410) Grade Stabilization Structure
14. (391) Riparian Forest Buffer

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

This system includes grazing management of established bermudagrass and/or old world bluestems on soils of varying depth, texture and slope. Prescribed grazing (facilitated by fencing and water facilities), critical area planting, diversions, riparian forest buffers, grade stabilization structures and/or streambank protection will aid in control of gully and/or streambank erosion. Reduced sediment from erosion control will also reduce flood hazard due to improved stream capacity. Livestock water needs will be met with installation of necessary watering facilities. Prescribed grazing (facilitated by fencing, watering facilities and prescribed burning), nutrient management and pest management will result in proper stocking and improved plant production, health and vigor. Prescribed burning will produce short term air quality, health and safety concerns due to smoke.

14.	RESOURCE CONCERNS	MAGNITUDE/EFFECTS	IMPACTS
	1. Soil-Erosion-Gully	1. 0 T/Yr soil loss	1. 50 T/Yr soil saved
	2. Soil-Eros.-Streambank	2. 0 T/Yr soil loss	2. 50 T/Yr soil saved
	3. Water-Quant.-Flooding	3. Improved stream cap.	3. Reduced damage/prod. losses
	4. Plant-Mgmt.-For. Prod.	4. 83% potential prod.	4. 13% incr. production
	5. Plant-Cond.-Hlth/Vigor	5. Imp. health & vigor	5. Imp. growth & quality
	6. Plant-Mgmt.-Nutrient	6. Proper application.	6. Prod./plant needs met
	7. Plant-Mgmt.-Pest	7. Pests controlled	7. Red. comp./Imp. prod.
	8. Anim.-Hab.-Dom. Water	8. H_2O storage doubled	8. 100% increased H_2O storage
	9. Animal-Mgmt.-Pop./Res.	9. 6 AUM's/Ac/Yr	9. 1 AUM/Yr increase
	10. Air-Qual.-Smoke (S&H)	10. Smoke/safety & health	10. Short term impact

CRA con't	SYSTEM TEMPLATE LABEL cont'd		
17.	QUALITY CRITERIA DOCUMENTATION *List resource concerns, then indicate yes/no*		
	1. Soil - Erosion - Gully	_X_ YES	___ NO
	2. Soil - Erosion - Streambank	_X_ YES	___ NO
	3. Water - Quantity - Flooding	_X_ YES	___ NO
	4. Plant - Management - Forage Production	_X_ YES	___ NO
	5. Plant - Condition - Health & Vigor	_X_ YES	___ NO
	6. Plant - Management - Nutrient	_X_ YES	___ NO
	7. Plant - Management - Pest	_X_ YES	___ NO
	8. Animal - Habitat - Domestic Animal Water Requirements	_X_ YES	___ NO
	9. Animal Management - Population & Resource Balance	_X_ YES	___ NO
	10. Air - Quality - Smoke (Safety & Health)	_X_ YES	___ NO

Conservation Management Systems

Certification of Quality Criteria

080A.40.001
GAJ2A
GAJ2B

RESOURCE CONSIDERATION/PROBLEM	Term Effect Short	Term Effect Long	Meets Quality Criteria Benchmark Yes	Meets Quality Criteria Benchmark No	Meets Quality Criteria Planned Yes	Meets Quality Criteria Planned No
SOIL						
Erosion						
Sheet and rill			N/A			
Wind			N/A			
Irrigation induced			N/A			
Concentrated flow						
Cropland ephemeral gully			N/A			
Classic gully				✓		
Soil mass movement			✓			
Roadbank and construction sites			N/A			
Streambank erosion				✓		
Condition						
Tilth			N/A			
Compaction			N/A			
Soil contaminants			✓			
Deposition (Onsite & Offsite)						
Damage			✓			
Safety			✓			
WATER						
Quantity						
Seeps			✓			
Flooding				✓		
Subsurface water			✓			
Restricted capacity			✓			
Conveyance			✓			
Inadequate outlets			✓			
Restricted capacity, water bodies			✓			
Water management--irrigated			N/A			
Water management--non-irrigated			N/A			
Quality						
Contaminants			✓			
Aquatic habitat suitability			✓			
AIR						
Quality						
Sediment			✓			
Smoke				✓(A)		
Chemical drift			✓			
Odors			✓			
Fungi			✓			
Molds			✓			
Pollen			✓			
Condition						
Temperature			✓			
Air movement			✓			
Humidity			✓			

(A) After treatment

Conservation Management Systems

Certification of Quality Criteria

RESOURCE CONSIDERATION/PROBLEM	Term Effect Short	Term Effect Long	Meets Quality Criteria Benchmark Yes	Meets Quality Criteria Benchmark No	Meets Quality Criteria Planned Yes	Meets Quality Criteria Planned No
PLANTS						
Suitability						
Adapted to site			✓			
Intended use			✓			
Condition						
Productivity				✓		
Health and vigor				✓		
Management						
Establishment			✓			
Growth			✓			
Harvest			✓			
Nutrient management				✓		
Pests				✓		
Threatened and endangered species			✓			
ANIMALS(domestic/wildlife)						
Habitat						
Food			✓			
Cover			✓			
Shelter			✓			
Water Domestic Animal Requirements				✓		
Threatened and endangered species			✓			
Management						
Population and Resource Balance				✓		
Animal Health			✓			

References:
NPPH Pages 75-78
FOTG Section III - Quality Criteria
GM -450 Part 401 Paragraph 401.03

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GAJ2A
GAJ2B

Conservation Practice Physical Effects on Resource Concerns
Candidate Practice List

State	Oklahoma	Field Office		MLRA	80A

Soil Interpretations

Resource Concerns / Cons. Practices	SOIL Erosion Gully	SOIL Erosion Streambank	WATER Quantity Flooding	PLANT Management For. Prod.	PLANT Condition Hlth & Vigor	PLANT Management Nutrient	PLANT Management Pest	ANIMAL Habitat Dom. Water	ANIMAL Management Pop./Res. Bal	AIR Quality Smoke (S&H)
342	+	+	+	+	+	+	N/A	+	+	0
382	+	+	0	+	+	N/A	+	+	+	0
* 338	(−)	(−)	(−)	+	+	0	+	0	+	−
528A	+	+	+	+	+	N/A	+	+	+	0
362	+	0	+	+	(−)	N/A	−	+	+	0
580	0	+	+	0	0	0	0	0	+	0
* 614	0	0	6	0	0	0	0	+	+	0
* 590	0	0	0	+	+	+	0	0	+	0
* 595	0	0	0	+	+	0	+	0	+	0
* 642	0	0	0	0	0	0	0	+	+	0
* 516	0	0	0	0	0	0	0	+	+	0
378	+	N/A	+	+	+	N/A	0	+	+	0
* 410	+	+	+	0	0	0	0	+	0	0
* 391	0	+	+	0	0	N/A	−	N/A	0	0

* Not in FOTG, Sec. II
(−) Short term negative effect