MANAGEMENT SYSTEM TEMPLATE

B. CONSERVATION MANAGEMENT SYSTEM OPTIONS WORKSHEET

1.	STATE	Oklahoma
2.	FIELD OFFICE	Buffalo - Harper County
3.	MLRA	77E
4.	COMMON RESOURCE AREA (CRA)	077E.40.002
5.	RESOURCE INTERPRETATIONS	*for each resource enter available interp data*
5.1	SOIL	Soil Legends, Technical/Non-Technical Soil Interpretations
5.2	WATER	Water Quantity and Quality
5.3	AIR	
5.4	PLANT	Cropland Interpretations
5.5	ANIMAL	Threatened & Endangered Species List, Wildlife Interpretations
5.6	HUMAN	
6.	HYDROLOGIC UNIT	
7.	SYSTEM TEMPLATE LABEL	EBAOB
8.	SYSTEM NAME	Rolling Uplands
9.	PLANNING PHASE	Non-Benchmark
10.	PLANNING LEVEL	RMS
11.	NRCS LANDUSE	Crop
12.	PLANNED CONSERVATION PRACTICES	*list practices in the system*

1. Conservation Crop Rotation (328)
2. Residue Management, Mulch Till (329B)
3. Contour Farming (330)
4. Residue Management, Seasonal (344)
5. Diversion (362)
6. Grassed Waterway (412)
7. Irrigation Water Management (449)
8. Nutrient Management (590)
9. Pest Management (595)
10. Terraces (600)
11. Prescribed Grazing (528)

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

This system consists of continuous small grains and forage sorghums. Terraces, diversions and waterways will be constructed to control excessive soil erosion. Crop residues must be maintained under a planned conservation tillage system that adequately controls wind erosion under the soil loss allowable and reduces soil particles in the air. Adequate and timely tillage improves soil tilth, reduces compaction, and provides economic weed control. A healthier soil with nutrient and pet management will also improve plant health and vigor, plant productivity and increase overall crop harvest. Maintenance of conservation practices must be done to insure long term benefits and proper functioning of the practice. Restoration of terraces and waterways is necessary to repair damage caused by flooding from destructive rainfall events. Irrigation water management will reduce energy and water usage. Applying prescribed grazing will balance the livestock numbers with the available forage.

14. RESOURCE CONCERNS	MAGNITUDE/EFFECTS	IMPACTS
1. Soil - Eros - Sht. & Rill	1. Soil loss of 2 tons	1. 6 ton/ac/yr savings
2. Soil - Eros - Wind	2. Soil loss of 4 tons	2. 8 ton/ac/yr savings
3. Soil - Eros - Ephemer.	3. Soil loss of 1 ton	3. 3 ton/ac/yr savings
4. Soil - Cond - Tilth	4. Improved organic matter	4. Soil Cond. Index >0.0
5. Soil - Cond - Compaction	5. Improve infiltration	5. Increased yield/forage
6. Soil - Dep - Damage	6. Reduce sedimentation	6. Lower maintenance cost
7. Water - Quant - Flooding	7. Reduce practice damage	7. Lower maintenance cost
8. Water - Quant - Irrig.	8. Reduce water/fuel usage	8. Lower production cost
9. Air - Quality - Sediment	9. Reduce air pollution	9. Improve quality of life
10.Plants - Cond - Productiv.	10. Increase yield/forage	10. Higher profits
11. Plants - Cond - Hlth/Vig.	11. Improve plant vigor	11. Increased profits & residues
12. Plants - Mgt - Gwth/Har	12. Increased yield/forage	12. Increased profits & residues
13. Plants - Mgt - Nutrient	13. Zero production loss	13. 5 bushel gain in yield
14. Plants - Mgt - Pest	14. 5% reduced yield	14. 20% gain in production
15. Animals - Pop/Res Bal	15. Proper utilization	15. Improved utilization

17.	QUALITY CRITERIA DOCUMENTATION *list resource concerns then indicate yes/no*		
	1. Soil - Erosion - Sheet and Rill	_X_ YES	___ NO
	2. Soil - Erosion - Wind	_X_ YES	___ NO
	3. Soil - Erosion - Ephemeral Gully	_X_ YES	___ NO
	4. Soil - Condition - Tilth	_X_ YES	___ NO
	5. Soil - Condition - Compaction	_X_ YES	___ NO
	6. Soil - Deposition - Damage On-site	_X_ YES	___ NO
	7. Water - Quantity - Flooding	_X_ YES	___ NO
	8. Water - Quantity - Management for Irrigated Lands	_X_ YES	___ NO
	9. Air - Quality - Sediment/Health Problems	_X_ YES	___ NO
	10. Plants - Condition - Productivity	_X_ YES	___ NO
	11. Plants - Condition - Health & Vigor	_X_ YES	___ NO
	12. Plants - Management - Establishment/Growth/Harvest	_X_ YES	___ NO
	13. Plants - Management - Nutrient	_X_ YES	___ NO
	14. Plants - Management - Pest	_X_ YES	___ NO
	15. Animals - Management - Population & Resource Balance	_X_ YES	___ NO

Conservation Practice Physical Effects on Resource Concerns
Candidate Practice List

State	Oklahoma	Field Office	Buffalo	MLRA	77E

Soil Interpretations

Resource Concerns / Cons. Practices	Soil Erosion Sheet/Rill	Soil Erosion Wind	Soil Erosion Ephemer.	Soil Condition Tilth	Soil Condition Compact.	Soil Dep. Damage	Water Quantity Flooding	Water Quantity Irrig.	Air Quality Sediment	Plants Condition Prod.
Cnsv Crp Rota	+	+	+	+	+	+	+	+	+	+
Rsd Mgmt MchTl	+	+	+	+	+	+	+	+	+	+
Cont. Farming	+	+	+	0	−	+	+	+	+	+
Rsd Mgmt Seas	+	+	+	+	+	+	+	+	+	+
Diversion	+	0	+	0	0	+	+	+	+	+
Grssd WW	+	0	+	0	0	+	+	+	+	+
Irr. Wtr Mgmt	+	+	+	+	+	+	+	+	+	+
Nutr. Mgmt	+	+	+	+	+	+	+	+	+	+
Pest Mgmt	+	+	+	+	+	+	+	+	+	+
Terraces	+	0	+	0	0	+	+	+	+	+
Pres. Grzng	+	+	+	+	+	+	+	+	+	+

Conservation Practice Physical Effects on Resource Concerns
Candidate Practice List

State	Oklahoma	Field Office	Buffalo	MLRA	77E

Soil Interpretations

Resource Concerns / Cons. Practices	Plants Condition Hlth/Vgr	Plants Mangement Gwth/Har	Plants Mangement Nutrient	Plants Mangement Pest	Animal Pop/Res. Balance					
Cnsv Crp Rota	+	+	+	+	+					
Rsd Mgmt MchTl	+	+	+	+	+					
Cont. Farming	+	+	0	0	+					
Rds Mgmt Seas	+	+	+	+	+					
Diversion	+	+	0	0	+					
Grssd WW	+	+	0	0	+					
Irr. Wtr Mgmt	+	+	+	+	+					
Nutr. Mgmt	+	+	+	+	+					
Pest Mgmt	+	+	0	+	+					
Terraces	+	+	0	0	+					
Pres. Grzng	+	+	+	+	+					