MANAGEMENT SYSTEM TEMPLATE

B. CONSERVATION MANAGEMENT SYSTEM OPTIONS WORKSHEET

1.	STATE	Oklahoma
2.	FIELD OFFICE	Buffalo - Harper County
3.	MLRA	78C
4.	COMMON RESOURCE AREA (CRA)	078C.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	11100201-035, 11100201-040, 11100201-015
7.	SYSTEM TEMPLATE LABEL	FBAZB
8.	SYSTEM NAME	78C - 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)

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

This system consists of continuous small grains and forage sorghums. Normally, soils in this system are potentially highly productive but require extensive use of terraces and waterways to control excessive erosion. Crop residues must be planned and maintained under a planned conservation tillage system that adequately controls erosion under the soil loss allowable. Adequate and timely tillage improves soil tilth, reduces compaction, and provides economic weed control. Maintenance of conservation practices must be done to insure long term benefits and proper functioning of the practice. Terraces and waterways are still being applied on a few fields, but the large need is practice restoration following destructive rainfall events. Irrigation water management will reduce energy and water usage.

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. Increased yield
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

ROLLING UPLANDS-
CROP

Conservation Practice Physical Effects on Resource Concerns
Candidate Practice List

State	OK	Field Office	BUFFALO	MLRA	

Soil Interpretations

Resource Concerns / Cons. Practices	EROSION SHEET&RILL	WIND	EPHEMERAL	CONDITION TILTH	COMPACTION	DEPOSITION FLOODING	WATER MGT. - IRR.	AIR SEDIMENT	PLANT - PRODUC., VIGOR, NUTR., PESTS	ANIMALS - BALANCE
TERRACES	+	N/A	+	N/A	N/A	+	N/A	N/A	N/A	N/A
WW	+	N/A	+	N/A	N/A	+	N/A	N/A	N/A	+
DIVERSION	+	N/A	+	N/A	N/A	+	N/A	N/A	N/A	N/A
RESIDUE MGT.	+	+	+	+	+	+	+	+	+	+
CROP ROTATION	+	+	+	+	+	+	+	+	+	+
NUTR. MGT.	N/A	N/A	N/A	+	N/A	N/A	+	N/A	+	+
PEST MGT.	N/A	N/A	N/A	+	N/A	N/A	+	N/A	+	+
CONS. TILLAGE	+	+	+	+	+	+	+	+	+	+
IRR. MGT.	+	N/A	+	N/A	N/A	N/A	+	N/A	+	+
CONTOUR FARMING	+	N/A	+	N/A	N/A	+	N/A	N/A	+	+