MANAGEMENT SYSTEM TEMPLATE

B. CONSERVATION MANAGEMENT SYSTEM OPTIONS WORKSHEET

1.	STATE	Oklahoma
2.	FIELD OFFICE	Alva - Woods County
3.	MLRA	78C
4.	COMMON RESOURCE AREA (CRA)	078C.40.005
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	11060002-035, 040; 11050001-025, 040, 050, 100
7.	SYSTEM TEMPLATE LABEL	FEAZB
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. Diversions (362)
6. Grassed Waterway (412)
7. Nutrient Management (590)
8. Pest Management (595)
9. Terraces (600)
10.

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 contour farming, diversions, terraces and waterways to control excessive erosion and flooding. Crop residue management must be planned and maintained to adequately control wind and water erosion under the soil loss allowable. Adequate and timely tillage improves soil tilth, reduces compaction, and provides economic weed control. Nutrient and pest management will be used to improve plant growth, harvest and overall productivity. 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.

14. RESOURCE CONCERNS	MAGNITUDE/EFFECTS	IMPACTS
1. Soil - Eros - Sht/Rill	1. Soil loss of 2 ton/ac/yr	1. 6 ton/ac/yr savings
2. Soil - Eros - Wind	2. Soil loss of 4 ton/ac/yr	2. 8 ton/ac/yr savings
3. Soil - Eros - Ephemer.	3. Soil loss of 1 ton/ac/yr	3. 3 ton/ac/yr savings
4. Soil - Tilth	4. 1 bushel decreased yield	4. Soil Condition Index >0.00
5. Soil - Compaction	5. Increase infiltration	5. Increased yield/forage
6. Soil - Depos - Damage	6. Reduce sedimentation	6. Lower maintenance costs
7. Water - Flooding	7. Reduce practice damage	7. Lower maintenance costs
8. Air - Qual - Sediment	8. Reduce air pollution	8. Improve quality of life
9. Plants - Productivity	9. Increase yield/forage	9. Higher profits
10.Plants - Health/Vigor	10. Increase yield/forage	10. Increased profits & residues
11.Plants - Est/Gr/Harv	11. Increase yield/forage	11. Increased profits & residues
12.Plants - Nutrient	12. Zero production loss	12. 5 bushel gain in yield
13.Plants - Pest	13. 5% reduced yield	13. 20% gain in production

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 - Runoff/Flooding	_X__YES	____NO
	8. Air - Quality - Sediment - Off-site Health	_X__YES	____NO
	9. Plants - Condition - Productivity	_X__YES	____NO
	10. Plants - Condition - Health & Vigor	_X__YES	____NO
	11. Plants - Management - Establishment/Growth/Harvest	_X__YES	____NO
	12. Plants - Management - Nutrient	_X__YES	____NO
	13. Plants - Management - Pests	_X__YES	____NO

ROLLING UPLANDS-
CROP

Conservation Practice Physical Effects on Resource Concerns
Candidate Practice List

State	OK	Field Office	~~[illegible]~~ AIVA	MLRA	
Soil Interpretations					

Resource Concerns / Cons. Practices	EROSION SHEET & RILL	WIND	EPHEMERAL	CONDITION TILTH	COMPACTION	DEPOSITION FLOODING		AIR SEDIMENT	PLANT - PRODUC., VIGOR, NUTR., PESTS	
TERRACES	+	N/A	+	N/A	N/A	+		N/A	N/A	
WW	+	N/A	+	N/A	N/A	+		N/A	N/A	
DIVERSION	+	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	+	+	+	+	+	+		+	+	
~~[illegible]~~										
CONTOUR FARMING	+	N/A	+	N/A	N/A	+		N/A	+	