MANAGEMENT SYSTEM TEMPLATE

B. CONSERVATION MANAGEMENT SYSTEM OPTIONS WORKSHEET

1.	STATE	Oklahoma
2.	FIELD OFFICE	Cherokee - Alfalfa County
3.	MLRA	80A
4.	COMMON RESOURCE AREA (CRA)	080A.40.002
5.	RESOURCE INTERPRETATIONS	*for each resource enter available interp data*
5.1	SOIL	Soils Legends; Technical and Non-Technical Soils Interpretations Hydric Soil Interpretations
5.2	WATER	Water Quantity and Quality Interpretations/Water Budgets
5.3	AIR	
5.4	PLANT	Cropland Interpretations
5.5	ANIMAL	Threatened and Endangered Species List; Wildlife Interpretations
5.6	HUMAN	
6.	HYDROLOGIC UNIT	11060003-065, 046; 11060004-040, 060
7.	SYSTEM TEMPLATE LABEL	GBAOB
8.	SYSTEM NAME	Bottomland
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. Critical Area Planting (342)
4. Residue Management, Seasonal (344)
5. Filter Strips (393)
6. Grassed Waterway (412)
7. Streambank & Shoreline Protection (580)
8. Pasture & Hayland Planting (512)
9. Soil Salinity Management (571)
10. Nutrient Management (590)
11. Pest Management (595)
12.
13.
14.
15.
16.

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

This system is almost exclusively small grains planted on level to gently sloping soils. Crop rotation, pest and residue management will aid in breaking the cheat, rye and other weed cycles. Residue management and/or conservation tillage will help improve soil tilth and compaction while improving plant health, vigor and overall productivity. Pasture planting, critical area planting, grassed waterways and streambank protection will reduce soil erosion along streambanks, protect natural drains from sedimentation and reduce flooding. The life of downstream water bodies will be prolonged with reduced sediment loads thus providing protection from flooding. Nutrient management applies fertilizer based on soil tests, plant needs and desired production. This keeps nutrients on cropland, improving water quality and quantity. Soil salinity management matches landuse/vegetation with the saline areas reducing the water table.

14. RESOURCE CONCERNS	MAGNITUDE/EFFECTS	IMPACTS
1. Soil - Eros - Streambank	1. Soil loss 10 tons/yr	1. 90 Ton/Yr saved
2. Soil - Cond - Tilth	2. Increase organ. matter	2. Soil Condition Index >0.0
3. Soil - Cond - Compact.	3. Improved root grwth	3. Increased yields
4. Soil - Cond - Contam.	4. Decreaed salinity	4. Improved production
5. Soil - Dep - Damage	5. Reduced sediment	5. Improved drainage
6. Water - Flooding	6. Reduce flooding	6. Reduce damage/prod. loss
7. Water - Subsurface Water	7. Increase water use	7. Less salts/increase prod.
8. Water - Inadeq. Outlets	8. Decreased erosion	8. Reduced damage/prod. losses
9. Water - Red. Capacity	9. Decrease flooding	9. Reduced damages
10. Water - Contamination	10. Red. sed.,pest.,fert.	10. Improved water qual.
11. Plant - Productivity	11. Increase production	11. Increased yields
12. Plant - Health/Vigor	12. Improved plant health	12. Increase production
13. Plant - Mgt - Nutrient	13. Proper application	13. Prod/plant needs
14. Plant - Mgt - Pest	14. Proper application	14. Red. comp./Imp. prod.

CRA con't	SYSTEM TEMPLATE LABEL cont'd		
17.	QUALITY CRITERIA DOCUMENTATION *List resource concerns, then indicate yes/no*		
	1. Soil - Erosion - Streambank	_X_ YES	___ NO
	2. Soil - Condition - Tilth	_X_ YES	___ NO
	3. Soil - Condition - Compaction	_X_ YES	___ NO
	4. Soil - Condition - Contaminants	_X_ YES	___ NO
	5. Soil - Deposition - Damage Offsite	_X_ YES	___ NO
	6. Water - Quantity - Excess Amounts - Runoff/Flooding	_X_ YES	___ NO
	7. Water - Quantity - Excess Amounts - Subsurface Water	_X_ YES	___ NO
	8. Water - Quantity - Inadequate Outlets	_X_ YES	___ NO
	9. Water - Quantity - Restricted Flow Capacity	_X_ YES	___ NO
	10. Water - Quality - Surface Water Contaminants	_X_ YES	___ NO
	11. Plants - Condition - Productivity	_X_ YES	___ NO
	12. Plants - Condition - Health & Vigor	_X_ YES	___ NO
	13. Plants - Management - Nutrients	_X_ YES	___ NO
	14. Plants - Management - Pest	_X_ YES	___ NO

Conservation Practice Physical Effects on Resource Concerns
Candidate Practice List

State	Okla	Field Office	Cherokee	MLRA	080A.40.002

Soil Interpretations

Resource Concerns / Cons. Practices	Soil Eros Streambank	Soil Tilth	Soil Compaction	Soil Contaminants	Soil Depos. Damage	Water Flooding	Water Sub-Surf Water	Water Inadeq Outlets	Water Reduce Capac	Water Contam	Plant Prod.	Plant H & V	Plant Nutr.	Plant Pest
328 Rotation	+	+	+	+	+	+	+	0	+	+	+	+	+	+
329B Tillage	+	+	+	−	+	+	−	0	+	−	+	+	+	−
342 Crit. Area	+	0	0	+	+	+	+	+	+	+	+	+	0	+
344 Res. Use	+	+	+	+	+	+	−	0	+	+	+	+	+	+
393 Filter	+	0	0	+	+	+	−	0	+	+	+	+	+	−
412 WW	+	0	0	+	+	+	+	+	+	+	0	0	0	0
580 streambank	+	0	0	0	+	+	0	+	+	+	0	0	0	0
512 Past. Plnt.	+	+	+	+	+	+	−	0	+	+	+	+	+	+
571 Salinity	+	+	+	+	+	+	+	0	+	+	+	+	+	+
590 Nutrient	+	+	+	−	+	+	−	0	+	+	+	+	+	+
595 Pest	+	+	+	−	+	+	−	0	+	+	+	+	+	+