MANAGEMENT SYSTEM TEMPLATE

B. CONSERVATION MANAGEMENT SYSTEM OPTIONS WORKSHEET

1.	STATE	Oklahoma
2.	FIELD OFFICE	Shattuck - Ellis County
3.	MLRA	77E
4.	COMMON RESOURCE AREA (CRA)	077E.40.003
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	11100201-055, 11100203-016, 11100203-020
7.	SYSTEM TEMPLATE LABEL	ECAOB
8.	SYSTEM NAME	Rolling Plains
9.	PLANNING PHASE	Non-Benchmark
10.	PLANNING LEVEL	RMS
11.	NRCS LANDUSE	Crop
12.	PLANNED CONSERVATION PRACTICES	*list practices in the system*

1. Terraces (600)
2. Grassed Waterway (412)
3. Diversion (362)
4. Residue Management, Seasonal (344)
5. Conservation Crop Rotation (328)
6. Nutrient Management (590)
7. Pest Management (595)
8. Residue Management, Mulch Till (329B)
9.
10.

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

This system consists of continuous small grains. Crop rotation will break up insect cycles and weed problems. Pest and nutrient management will improve crop productivity and plant health and growth. Conservation tillage systems combined with occasional deep tillage and chemical weed control will improve soil tilth, compaction, productivity, and reduce wind and water erosion. Structural practices such as terraces, diversions, and grassed waterways will be constructed to control soil erosion. These practices require extensive maintenance caused by storm flooding and soil deposition. Improved residue management improves overall soil health while controlling sheet and rill erosion to within allowable limits.

14.	RESOURCE CONCERNS	MAGNITUDE/EFFECTS	IMPACTS
	1. Soil - Eros. - Sheet & 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 tons	3. 3 ton/ac/yr savings
	4. Soil - Cond. - Tilth	4. 1 Bu. decrease yield	4. Soil Condition Index >0.0
	5. Soil - Cond. - Compact.	5. Increase infiltration	5. Increase crop yield
	6. Soil - Dep. - Damage	6. Reduce sedimentation	6. Lower maintenance cost
	7. Water - Quan. - Flooding	7. Reduce practice damage	7. Lower maintenance cost
	8. Air - Qual. - Sediment	8. Reduce air pollution	8. Improved quality of life
	9. Plants - Cond. - Prod.	9. Increased yields	9. Higher profits
	10.Plants - Cond. - H&V	10. Improved plant vigor	10. Increase yields
	11. Plants - Mngmt - Grth	11. Increase growth	11. Increased yields
	12. Plants - Mngmt - Nutr.	12. Zero prod. loss	12. 5 bushel gain
	13. Plants - Mngmt - Pests	13. 5% reduced yield	13. 20% prod. gain
	14. Animal - Pop/Res. Bal.	14. Proper utilization	14. Improved animal perform.

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. Air - Quality - Sediment - Off-site Health	_X_ YES	____NO
	9. Plants - Condition - Productivty	_X_ YES	____NO
	10. Plants - Condition - Health and Vigor	_X_ YES	____NO
	11. Plants - Management - Establishment, Growth & Harv.	_X_ YES	____NO
	12. Plants - Management - Nutrient	_X_ YES	____NO
	13. Plants - Management - Plant Pests	_X_ YES	____NO
	14. Animal - Population and Resource Balance	_X_ YES	____NO

Conservation Practice Physical Effects on Resource Concerns
Candidate Practice List

State	OKla.	Field Office	Shattuck	MLRA	77E - Rolling Plains - Crop

Soil Interpretations

Resource Concerns / Cons. Practices	Plants: Growth	Plants: Nutrient Manage.	Plants: Pests	Animals Pop. & Res. Balance	Soils: Ephemeral Gully					
328	+	+	0	+	+					
329	+	0	−	+	+					
344	+	+	0	+	+					
362	+	0	0	+	+					
412	+	0	0	+	+					
590	+	+	+	+	0					
595	+	+	+	+	0					
600	0	0	0	0	+					

+ - positive impact
- - negative impact
0 - no impact/negligible

Conservation Practice Physical Effects on Resource Concerns
Candidate Practice List

State Okla. **Field Office** Shattuck **MLRA** 77E - CROP - Rolling Plains

Soil Interpretations

Resource Concerns / Cons. Practices	Soil: Sheet + Rill	Soil: Wind Erosion	Soil: Tilth	Soil: Compaction	Soil: Deposition on-site	Water: Flooding		Air: Sediment	Plants: Productivity	Plants: Health + Vigor
328	+	+	+	+	+	+		+	+	+
329	+	+	+	+	+	+		+	+	0
344	+	+	+	0	+	+		+	+	+
362	+	0	0	0	+	+		0	+	+
412	0	0	0	0	0	+		0	+	+
590	+	+	+	+	+	0		+	+	0
595	+	+	+	+	+	0		+	+	0
600	+	0	0	0	0	+		0	+	0

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