MANAGEMENT SYSTEM TEMPLATE

B. CONSERVATION MANAGEMENT SYSTEM OPTIONS WORKSHEET

1	STATE	OKLAHOMA
2	FIELD OFFICE	Ottawa, Delaware, Mayes, Cherokee, and Adair
3	MLRA	116A
4.	COMMON RESOURCE AREA (CRA)	116A.40.001
5	RESOURCE INTERPRETATIONS	*see Section II FOTG for interpretations*
5.1	SOIL	FOTG, SECTION I - EROSION PREDICTION FOTG, SECTION II - SOIL AND SITE INFORMATION FOTG, SECTION II - SOILS LEGEND FOTG, SECTION II - SOIL DESCRIPTIONS - NONTECHNICAL FOTG, SECTION II - SOIL DESCRIPTIONS - TECHNICAL FOTG, SECTION II - HYDRIC SOIL INTERPRETATIONS FOTG, SECTION II - NONAGRICULTURAL INTERPRETATIONS FOTG, SECTION III - RESOURCE MANAGEMENT SYSTEMS - SOIL FOTG, SECTION V-A-1 - CONSERVATION EFFECTS - SOIL FOTG, SECTION V-A-2 - EFFECTS FOR GUIDANCE DOCUMENTS
5.2	WATER	FOTG, SECTION I - CLIMATIC DATA FOTG, SECTION II - WATER QUANTITY AND QUALITY INTERPRETATIONS FOTG, SECTION II - WASTE DISPOSAL INTERPRETATIONS FOTG, SECTION III - RESOURCE MANAGEMENT SYSTEMS - WATER FOTG, SECTION V-A-1 - CONSERVATION EFFECTS - WATER FOTG, SECTION V-A-2 - EFFECTS FOR GUIDANCE DOCUMENTS
5.3	AIR	FOTG, SECTION I - CLIMATIC DATA FOTG, SECTION I - STATE/LOCAL LAWS, ORDINANCES, REGULATIONS FOTG, SECTION III - RESOURCE MANAGEMENT SYSTEMS - AIR FOTG, SECTION V-A-1 - CONSERVATION EFFECTS - AIR FOTG, SECTION V-A-2 - EFFECTS FOR GUIDANCE DOCUMENTS
5.4	PLANT	FOTG, SECTION I - THREATENED AND ENDANGERED SPECIES FOTG, SECTION II - FORESTLAND INTERPRETATIONS FOTG, SECTION II - PASTURE AND HAYLAND INTERPRETATIONS FOTG, SECTION III - RESOURCE MANAGEMENT SYSTEMS - PLANTS FOTG, SECTION V-A-1 - CONSERVATION EFFECTS - PLANTS FOTG, SECTION V-A-2 - EFFECTS FOR GUIDANCE DOCUMENTS
5.5	ANIMAL	FOTG, SECTION I - THREATENED AND ENDANGERED SPECIES FOTG, SECTION II - WILDLIFE INTERPRETATIONS FOTG, SECTION III - RESOURCE MANAGEMENT SYSTEMS - WILDLIFE FOTG, SECTION V-A-2 - EFFECTS FOR GUIDANCE DOCUMENTS
5.6	HUMAN	FOTG, SECTION I - CULTURAL RESOURCE INFORMATION FOTG, SECTION I - STATE/LOCAL LAWS, ORDINANCES, REGULATIONS FOTG, SECTION V-B-1 - CONSERVATION EFFECTS - PRODUCER EXPERIENCES
6	HYDROLOGIC UNIT	
7	SYSTEM TEMPLATE LABEL	NAFZB
8	SYSTEM NAME	HEADQUARTERS
9	PLANNING PHASE	NON-BENCHMARK
10	PLANNING LEVEL	RMS
11	NRCS LANDUSE	HEADQUARTERS

12	PLANNED CONSERVATION PRACTICES	*enter code / name of practice*

1. 327 - Conservation Cover
2. 342 - Critical Area Planting
3. 362 - Diversion
4. 382 - Fencing
5. 410 - Grade Stabilization Structure
6. 412 - Grassed Waterway
7. 441 - Irrigation System - Trickle
8. 442 - Irrigation System - Sprinkler
9. 449 - Irrigation Water Management
10. 484 - Mulching
11. 560 - Access Road
12. 561 - Heavy Use Area Protection
13. 590 - Nutrient Management
14. 595 - Pest Management
15. 606 - Subsurface Drain
16. 612 - Tree/Shrub Establishment
17. 660 - Tree/Shrub Pruning

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

This landuse includes farmsteads, barns, lots, corrals, and other similar areas associated with headquarters. Many of the concerns associated with these areas involve human and/or animal waste and the treatment and maintenance of heavily used areas. Managing runoff and/or flood waters is sometimes also a concern. Soil erosion is a concern primarily associated with new construction of homesites, barns, etc., and can usually be controlled by applying a conservation cover, using critical area planting techniques and by mulching. The problem of excess pesticide(s) in soils can be controlled by implementing proper pest management practices, and by following local, state and federal laws and regulations listed on the pesticide label. Additional information on the proper handling and disposal of pesticides can be obtained from the local OSU Extension Service office. All nutrients applied on lawns should be done according to current soil test recommendations. New septic systems need to be installed and existing nonfunctional septic systems renovated according to local laws and Oklahoma Department of Environmental Quality regulations. Localized flooding can be controlled with the implementation of a flood control system, however, these systems are expensive and are not a cure-all for flooding problems in housing. Any new structures, such as houses or barns, should be located above the floodplain. The local NRCS office has soil survey data available that can help determine where potential flooding problems may exist. Additional information on flooding can be obtained from the Federal Emergency Management Agency (FEMA) and the local Floodplain Management Board (if one exists for the county). Excess runoff can be controlled in many situations by installing a diversion and/or a grassed waterway, depending on which best fits the situation. Seeps and soil saturation problems that exist in some areas can be remedied with the installation of surface and/or subsurface drainage, provided the site is not considered a wetland. If the area is considered a wetland, it will be necessary to obtain permits and/or clearance from the U.S. Army Corps of Engineers prior to any type of construction.

14	RESOURCE CONCERNS	MAGNITUDE/EFFECTS	IMPACTS
	1. Sheet and Rill Erosion	1. By planting permanent and/or temporary cover and/ or mulching new construction sites, sheet and rill erosion can be reduced to less than 1 to 2 tons/acre/ year.	1. Reduction in sheet and rill erosion of 6 to 9 tons/acre/year.
	2. Ephemeral Erosion	2. By planting permanent and/or temporary cover and/ or mulching new construction sites, ephemeral erosion can be reduced to less than 1 to 2 tons/acre/year.	2. Reduction in ephemeral erosion of 1 to 2 tons/acre/year.
	3. Excess Pesticide(s) in Soil	3. Develop chemical filling, mixing and rinsing stations in accordance to local, state and federal laws and pesticide labels. Contact the local OSU Extension Service office for additional information. Preplanning on pesticide mixing and disposal help eliminate this problem.	3. Reduction and/or elimination of pesticide accumulation in soils.

	4. Soil Condition - Other	4. The local NRCS office can provide data on soil suitability for sanitary facilities and housing construction. Additional information can be obtained from the Oklahoma Department of Environmental Quality (DEQ). Proper site selection and/or facilities will eliminate most of these concerns.	4. Reduction in sanitary facility concerns (i.e. location, type, etc.). Reduced potential for surface and/or groundwater contamination.
	5. Seeps	5. Seeps can be controlled by installing surface and/or subsurface drainage.	5. Reduction and/or elimination of underground construction and maintenance concerns. Reduction in lawn establishment and maintenance concerns.
	6. Runoff/Flooding	6. The local NRCS office can provide soil survey data on potential flooding concerns for new construction sites. Existing farmsteads, lots, etc. located in floodplains have concerns that are difficult, if not impossible, to solve, and any solution is usually very expensive. Excess runoff can usually be managed by constructing a diversion and/or grassed waterway.	6. Reduction and/or elimination of new construction in flood prone areas. Reduction in overhead water and/or runoff causing damage and/or maintenance concerns.
	7. Soil Saturation	7. By installing surface and/or subsurface drainage, short term soil saturation can be reduced on lawns and other high maintenance areas where it may cause a problem.	7. Reduction in soil saturation during the spring and fall seasons.
	8. Nutrient Management	8. Fertilizer will be applied according to current soil test recommendations and desired production goals in order to reduce excessive and/or under fertilization.	8. Maintenance of vegetation without excessive application of plant nutrients.
	9. Plant Pests	9. Application of pesticides will be done according to label directions, local, state and federal laws, and using integrated pest management principles in order to reduce weed and other pest concerns and to reduce excessive usage of pesticides.	9. Reduction in excessive pesticide usage. Increase in proper management of weeds and other pests.

CRA	SYSTEM TEMPLATE LABEL	
15	* QUALITY CRITERIA DOCUMENTATION *list resource concerns then indicate yes/no (X)*	
	1. Sheet and Rill Erosion 2. Ephemeral Erosion 3. Excess Pesticide(s) in Soil 4. Soil Condition - Other 5. Seeps 6. Runoff/Flooding 7. Soil Saturation 8. Nutrient Management 9. Plant Pests	_X_YES ___NO _X_YES ___NO _X_YES ___NO _X_YES ___NO _X_YES ___NO _X_YES ___NO _X_YES ___NO _X_YES ___NO _X_YES ___NO

* Provides an indication that the resource quality criteria will be met.

Conservation Practice Physical Effects on Resource Concerns
Candidate Practice List

State	Oklahoma	Field Office		MLRA		System Template Label	
Soil Interpretations							

Resource Concerns / Conservation Practices	Sheet and Rill Erosion	Ephemeral Erosion	Excess Pesticide(s) in Soil	Soil Condition - Other	Seeps	Runoff/ Flooding	Soil Saturation	Nutrient Management
327-Conservation Cover	+ +	+ +	N/A	N/A	N/A	+	N/A	+
342-Critical Area Planting	+ + +	+ + +	N/A	N/A	N/A	+	N/A	+
362-Diversion	+	+ +	N/A	N/A	N/A	+ +	N/A	+
382-Fencing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
410-Grade Stabilization Structure	+	+ +	N/A	N/A	N/A	+ +	N/A	+ +
412-Grassed Waterway	+ +	+ +	N/A	N/A	N/A	+ +	N/A	+
441-Irrigation System - Trickle	N/A	N/A	N/A	N/A	N/A	N/A	+	+
442-Irrigation System - Sprinkler	N/A	N/A	-	N/A	-	N/A	-	+
449-Irrigation Water Management	+ +	+ +	+	N/A	0	N/A	0	+
484-Mulching	+ + +	+ + +	+	N/A	+	+	+	+
560-Access Road	+	+	N/A	N/A	N/A	0	N/A	N/A
561-Heavy Use Area Protection	+ +	+ +	N/A	N/A	N/A	+	N/A	+
590-Nutrient Management	N/A	N/A	N/A	N/A	N/A	+	N/A	+ + +

RATINGS:

Not Applicable	=	N/A	Slight	=	+ or -
Negligible	=	0	Moderate	=	+ + or --
Facilitating	=	F	Significant	=	+ + + or ---

Conservation Practice Physical Effects on Resource Concerns
Candidate Practice List

State	Oklahoma	Field Office		MLRA		System Template Label	
Soil Interpretations							

Resource Concerns / Conservation Practices	Plant Pests							
327-Conservation Cover	N/A							
342-Critical Area Planting	+							
362-Diversion	N/A							
382-Fencing	N/A							
410-Grade Stabilization Structure	N/A							
412-Grassed Waterway	N/A							
441-Irrigation System - Trickle	+							
442-Irrigation System - Sprinkler	+							
449-Irrigation Water Management	+							
484-Mulching	+							
560-Access Road	N/A							
561-Heavy Use Area Protection	+							
590-Nutrient Management	+ + +							

RATINGS:

Not Applicable	=	N/A	Slight	=	+ or -
Negligible	=	0	Moderate	=	+ + or --
Facilitating	=	F	Significant	=	+ + + or ---

Conservation Practice Physical Effects on Resource Concerns
Candidate Practice List

State	Oklahoma	Field Office		MLRA		System Template Label	
Soil Interpretations							

Resource Concerns / Conservation Practices	Sheet and Rill Erosion	Ephemeral Erosion	Excess Pesticide(s) in Soil	Soil Condition - Other	Seeps	Runoff/ Flooding	Soil Saturation	Nutrient Management
595-Pest Management	N/A	N/A	+ + +	N/A	N/A	N/A	N/A	N/A
606-Subsurface Drain	+	+	-	N/A	+ + +	+	+ + +	-
612-Tree/Shrub Establishment	+ + +	+ + +	N/A	N/A	N/A	+	+	+
660-Tree/Shrub Pruning	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

RATINGS:

Not Applicable	=	N/A	Slight	=	+ or -
Negligible	=	0	Moderate	=	+ + or --
Facilitating	=	F	Significant	=	+ + + or ---

Conservation Practice Physical Effects on Resource Concerns
Candidate Practice List

State	Oklahoma	Field Office		MLRA		System Template Label	
Soil Interpretations							

Resource Concerns / Conservation Practices	Plant Pests							
595-Pest Management	+ + +							
606-Subsurface Drain	N/A							
612-Tree/Shrub Establishment	N/A							
660-Tree/Shrub Pruning	N/A							

RATINGS:

Not Applicable	=	N/A	Slight	=	+ or -
Negligible	=	0	Moderate	=	+ + or --
Facilitating	=	F	Significant	=	+ + + or ---