

MANAGEMENT SYSTEM TEMPLATE

B. CONSERVATION MANAGEMENT SYSTEM OPTIONS WORKSHEET

1.	STATE	Oklahoma		
2.	FIELD OFFICE	Boise City - Cimarron County		
3.	MLRA	77A		
4.	COMMON RESOURCE AREA (CRA)	077A.40.001		
5.	RESOURCE INTERPRETATIONS	<i>for each resource enter available interp data</i>		
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	11100101-025, 035, 050; 11040002-045, 054		
7.	SYSTEM TEMPLATE LABEL	CAAOD		
8.	SYSTEM NAME	Flatlands - Irrigated Wheat		
9.	PLANNING PHASE	Non-Benchmark		
10.	PLANNING LEVEL	RMS		
11.	NRCS LANDUSE	Crop		
12.	PLANNED CONSERVATION PRACTICES	<i>list practices in the system</i>		
		<ol style="list-style-type: none"> 1. Residue Management, Seasonal (344) 2. Residue Management, Mulch Till (329B) 3. Nutrient Management (590) 4. Pest Management (595) 5. Surface Roughening (609) 6. Waste Utilization (633) 7. Conservation Crop Rotation (328) 8. Irrigation Water Management (449) 9. Irrigation Water Conveyance (430EE) 10. Decommissioning Abandoned Water Wells (997) 		
13.	SYSTEM NARRATIVE	<i>describe how the practices work together as a system</i>		
		<p>This system consists of the production of small grains under sprinkler irrigation. Previous crop residues are maintained on or near the soil surface to improve soil tilth, reduce compaction and conserve soil moisture. Crop rotation naturally protects crops from insect and disease potential. Nutrient management provides crops and soil necessary fertility amounts to achieve realistic production goals and objectives. Pest management controls competition from undesirable plants according to economic threshold. Waste utilization uses crop needs and soil analysis to apply dry feedlot waste as a fertility improvement method. Surface roughening aids in wind erosion by producing a cloddy surface which can substitute for insufficient residues. Periodic subsoiling opens the soil surface and disturbs the plow pan to allow root development and increase rainfall infiltration. Irrigation water management provides guidance in managing and controlling the moisture environment of crops to promote the desired crop response and minimize soil erosion and nutrient loss. This practice also controls undesirable water loss, increasing efficiency and protects water quality. Irrigation water conveyance is utilized to prevent erosion, water loss and damage to the land and managing irrigation water use. Installing a Low Energy Precision Application (LEPA) system will provide additional water use efficiency. Decommissioning abandoned wells will reduce direct contamination as well as reduce the hazard to the recharge areas of the aquifer.</p>		
14.	RESOURCE CONCERNS	MAGNITUDE/EFFECTS	IMPACTS	
	<ol style="list-style-type: none"> 1. Soil - Condition - Tilth 2. Soil - Cond. - Compact. 3. Water - Qual. - Grdwtr. 4. Water- Quant - Irr. Mgt 5. Plants - Cond. - Prod. 6. Plants - Cond. - Hlth/Vig 7. Plants - Est/Grwth/Harv 8. Plants - Mngmt - Nutr. 9. Plants - Mngmt - Pest 10. 	<ol style="list-style-type: none"> 1. Improve soil health 2. Limit plow pan 3. Reduce contamin. 4. Improved Effec. 5. 50 Bu./Ac. 6. Reduce crop stress 7. Improve crop growth 8. Utilize soil test 9. Control weeds 10. 	<ol style="list-style-type: none"> 1. Soil Cond. Index >0.0 2. Improve root growth 3. Improve water qual. 4. Energy/water savings 5. 15 Bu./Ac. increase 6. Increase crop yield 7. Increase harvest 8. 5% prod. increase 9. 5% prod. increase 10. 	

17.	QUALITY CRITERIA DOCUMENTATION <i>list resource concerns then indicate yes/no</i>		
	1. Soil - Erosion - Wind	<u>X</u> YES	<u> </u> NO
	2. Soil - Condition - Tilt	<u>X</u> YES	<u> </u> NO
	3. Soil - Condition - Compaction	<u>X</u> YES	<u> </u> NO
	4. Water - Quality - Groundwater Contaminants	<u>X</u> YES	<u> </u> NO
	5. Water - Quantity - Irrigation Water Management	<u>X</u> YES	<u> </u> NO
	6. Plants - Condition - Productivity	<u>X</u> YES	<u> </u> NO
	7. Plants - Condition - Health and Vigor	<u>X</u> YES	<u> </u> NO
	8. Plants - Management - Establishment, Growth, Harvest	<u>X</u> YES	<u> </u> NO
	9. Plants - Management - Nutrient	<u>X</u> YES	<u> </u> NO
	10. Plants - Management - Pests	<u>X</u> YES	<u> </u> NO

