MANAGEMENT SYSTEM TEMPLATE

A. BENCHMARK SYSTEM WORKSHEET

1.	STATE	Oklahoma
2.	FIELD OFFICE	Anadarko, Clinton, Cordell, Hobart, Sayre, Taloga
3.	MLRA	78C Central Rolling Red Plains
4.	COMMON RESOURCE AREA (CRA)	078C.40.007
5.	RESOURCE INTERPRETATIONS	
5.1	SOIL	Technical and Nontechnical Interpretations
5.2	WATER	Water Quality and Quantity Interpretations
5.3	AIR	N/A
5.4	PLANT	Cropland Interpretations
5.5	ANIMAL	N/A
5.6	HUMAN	N/A
6.	HYDROLOGIC UNIT	11092001080, 11120303010, 020, 11130202010, 11130301070, 090, 100, 110, 120, 11130302010, 020, 030, 040, 050, 060, 070, 080, 090, 100, 110, 120, 130, 140, 150, 160
7.	SYSTEM TEMPLATE LABEL	FGAZ0
8.	SYSTEM NAME	Cropland, Master CMS
9.	PLANNING PHASE	Benchmark
10.	PLANNING LEVEL	N/A
11.	NRCS LANDUSE	CROP
12.	EXISTING CONSERVATION PRACTICES	

1. 328 Conservation Crop Rotation
2. 330 Contour Farming
3. 412 Grassed Waterway
4. 600 Terrace

13. SYSTEM NARRATIVE

This benchmark management system consists of wheat, cotton, and grain sorghum planted on loamy upland soils. Most of the wheat provides pasture for stocker cattle through the winter and most acreage is then harvested for grain. Fields are terraced with waterways and farmed on the contour, however soil erosion is a problem on unterraced fields with poor residue management. Conventional tillage practices deteriorate soil tilth and crate plow pans which reduce water intake and increases runoff. Low soil fertility reduces potential crop yields and forage production. Fertilizer is applied annually without regard to soil tests. Weed competition from bindweed and cheat is a problem.

14.	RESOURCE CONCERNS	MAGNITUDE/EFFECTS
	1. Sheet and Rill Erosion	1. Soil Loss = 10 tons/acre/year
	2. Ephemeral Gully Erosion	2. Soil Loss = 100 tons/year
	3. Soil Tilth	3. Soil Condition Index = -1.0
	4. Soil Compaction	4. Plow Pan
	5. Plant Productivity	5. Reduced Grain and Forage Production
	6. Nutrient Management	6. Improper Fertilization
	7. Pest Management	7. Nutrient/Moisture Competition