# MANAGEMENT SYSTEM TEMPLATE

## A. BENCHMARK SYSTEM WORKSHEET

| | | |
|---|---|---|
| 1. | STATE | Oklahoma |
| 2. | FIELD OFFICE | Bristow, Chandler, El Reno, Enid, Guthrie, Kingfisher, Medford, Newkirk, Oklahoma City, Pawhuska, Pawnee, Perry and Stillwater |
| 3. | MLRA | 80A |
| 4. | COMMON RESOURCE AREA (CRA) | 080A.40.001 |
| 5. | RESOURCE INTERPRETATIONS | |
| 5.1 | SOIL | Soils Legends, Technical/Non-Technical Soils Interpretations |
| 5.2 | WATER | Water Quantity & Quality Interpretations/Water Budgets |
| 5.3 | AIR | |
| 5.4 | PLANT | Cropland Interpretations |
| 5.5 | ANIMAL | Threatened & Endangered Species List, Wildlife Interpretations |
| 5.6 | HUMAN | |
| 6. | HYDROLOGIC UNIT | |
| 7. | SYSTEM TEMPLATE LABEL | GAAZA |
| 8. | SYSTEM NAME | (80A) Wheat &/or Grain/Forage Sorghum |
| 9. | PLANNING PHASE | BENCHMARK |
| 10. | PLANNING LEVEL | N/A |
| 11. | NRCS LANDUSE | Crop |
| 12. | EXISTING CONSERVATION PRACTICES | |

1. (344) Residue Management, Seasonal
2. (412) Waterway
3. (600) Terrace

**13. SYSTEM NARRATIVE**

This system includes continuous wheat (for grain &/or grazing), grain sorghum and forage sorghum (or various rotations of these) on loamy soils of varying depth and slope. Terraces &/or waterways are present on steeper slopes, but soil erosion by water is a concern on untreated &/or lesser slopes. Gully erosion also occurs where outlets into streams are inadequately protected. Soils are typically low in organic matter (affecting tilth) and compaction restricts root growth when fields are cultivated when too wet. Flooding, as a result of reduced stream capacity, occurs adjacent to rivers and streams leaving silt deposits in fields. Fertilizers and pesticides are commonly applied without determining plant needs for desired production and pest infestation levels. Greenbugs, cheat, rye, bindweed and various other grassy/broadleaf weeds are common pests.

| 14. | RESOURCE CONCERNS | MAGNITUDE/EFFECTS |
|---|---|---|
| | 1. Soil-Erosion-Sheet & Rill | 1. Soil loss-8 T/Ac/Yr |
| | 2. Soil-Erosion-Ephemeral | 2. Soil loss-2 T/Yr |
| | 3. Soil-Erosion-Gully | 3. Soil loss-50 T/Yr |
| | 4. Soil-Erosion-Streambank | 4. Soil loss-50 T/Yr |
| | 5. Soil-Condition-Tilth | 5. Low OM/Soil Cond. Index <0.0 |
| | 6. Soil-Condition-Compaction | 6. Limited crop root growth |
| | 7. Soil-Deposition-Damage | 7. Silt deposits from overland flow |
| | 8. Water-Quantity-Flooding | 8. Damage/lost production |
| | 9. Water-Quantity-Inadeq. Outlets | 9. Gully erosion |
| | 10. Plants-Management-Nutrient | 10. Improper application of fertilizers |
| | 11. Plants-Management-Pest | 11. Weeds/nutrient & moisture competition |