

MANAGEMENT SYSTEM TEMPLATE

A. BENCHMARK SYSTEM WORKSHEET

| | | | |
|------------|---|---|---|
| 1. | STATE | Oklahoma | |
| 2. | FIELD OFFICE | Beaver - Beaver County | |
| 3. | MLRA | 77A | |
| 4. | COMMON RESOURCE AREA (CRA) | 077A.40.002 | |
| 5. | RESOURCE INTERPRETATIONS | | |
| 5.1 | SOIL | Soil Legends, Technical/Non-Technical Soils Interpretations | |
| 5.2 | WATER | Water Quantity and Quality Interpretations | |
| 5.3 | AIR | | |
| 5.4 | PLANT | Cropland Interpretations | |
| 5.5 | ANIMAL | Threatened and Endangered Species List | |
| 5.6 | HUMAN | | |
| 6. | HYDROLOGIC UNIT | | |
| 7. | SYSTEM TEMPLATE LABEL | CBAZA | |
| 8. | SYSTEM NAME | Rolling Flatlands | |
| 9. | PLANNING PHASE | Benchmark | |
| 10. | PLANNING LEVEL | N/A | |
| 11. | NRCS LANDUSE | Crop | |
| 12. | EXISTING CONSERVATION PRACTICES | | |
| | <ol style="list-style-type: none"> 1. Terraces (600) 2. Grassed Waterway (412) 3. Diversions (362) 4. Contour Farming (330) 5. Residue Management, Seasonal (344) | | |
| 13. | SYSTEM NARRATIVE | | |
| | <p>This system consists of cropland fields on gently to strongly sloped land. Fertility of soils is moderate to poor. Typical crops are small grains and forage sorghums. Terraces, diversions, and waterways are common practices used to control soil erosion. These practices require maintenance and in some cases restoration following major storm events. Air quality is often affected by wind blown soil particles. A history of excessive tillage has depleted soil tilth and created compaction problems which results in poor plant productivity, health and vigor. Residue management is critical to erosion control and landusers manage residue reasonably well in years that residue is present. Crop growth and harvest are commonly reduced by infestations of Cheat and Bindweed. Grazing exists on this landuse when moisture conditions have been favorable. Fertilizer is typically applied, but without regard to the plant needs.</p> | | |
| 14. | RESOURCE CONCERNS | | MAGNITUDE/EFFECTS |
| | <ol style="list-style-type: none"> 1. Soil - Erosion - Sheet & Rill 2. Soil - Erosion - Wind 3. Soil - Erosion - Ephemeral Gully 4. Soil - Condition - Tilth 5. Soil - Condition - Compaction 6. Soil - Deposition - Damage On-Site 7. Water - Quantity - Flooding 8. Air - Qual. - Sediment/Health 9. Plants - Condition - Productivity 10. Plants - Condition - Health & Vigor 11. Plants - Mngmt. - Est., Growth, Har. 12. Plants - Mngmt. - Nutrient Mngmt. 13. Plants - Mngmt. - Plant Pests 14. Animal - Pop. & Resource Balance | | <ol style="list-style-type: none"> 1. Soil loss 8 tons/ac/yr. 2. Soil loss 12 tons/ac/yr 3. Soil loss 4 tons/ac/yr 4. Soil Cond. Index <0.0 5. Decreased infiltration 6. Excess sedimentation 7. Practice deterioration 8. Deteriorates quality of life 9. Reduced production 10. Reduce plant vigor 11. Reduce plant growth 12. 5 bushel decreased yield 13. 25% decreased yield 14. Overgrazing forage |

Conservation Management Systems

Certification of Quality Criteria

| RESOURCE CONSIDERATION/PROBLEM | Term Effect | | Meets Quality Criteria | | | |
|-----------------------------------|-------------|------|------------------------|----|---------|----|
| | Short | Long | Benchmark | | Planned | |
| | | | Yes | No | Yes | No |
| SOIL | | | | | | |
| Erosion | | | | | | |
| Sheet and rill | | | | ✓ | | |
| Wind | | | | ✓ | | |
| Irrigation induced | | | ✓ | | | |
| Concentrated flow | | | | | | |
| Cropland ephemeral gully | | | | ✓ | | |
| Classic gully | | | ✓ | | | |
| Soil mass movement | | | ✓ | | | |
| Roadbank and construction sites | | | ✓ | | | |
| Streambank erosion | | | ✓ | | | |
| Condition | | | | | | |
| Tilth | | | | ✓ | | |
| Compaction | | | | ✓ | | |
| Soil contaminants | | | ✓ | | | |
| Deposition (Onsite & Offsite) | | | | | | |
| Damage | | | | ✓ | | |
| Safety | | | ✓ | | | |
| WATER | | | | | | |
| Quantity | | | | | | |
| Seeps | | | ✓ | | | |
| Flooding | | | | ✓ | | |
| Subsurface water | | | ✓ | | | |
| Restricted capacity | | | ✓ | | | |
| Conveyance | | | ✓ | | | |
| Inadequate outlets | | | ✓ | | | |
| Restricted capacity, water bodies | | | ✓ | | | |
| Water management--irrigated | | | ✓ | | | |
| Water management--non-irrigated | | | ✓ | | | |
| Quality | | | | | | |
| Contaminants | | | ✓ | | | |
| Aquatic habitat suitability | | | ✓ | | | |
| AIR | | | | | | |
| Quality | | | | | | |
| Sediment | | | | ✓ | | |
| Smoke | | | ✓ | | | |
| Chemical drift | | | ✓ | | | |
| Odors | | | ✓ | | | |
| Fungi | | | ✓ | | | |
| Molds | | | ✓ | | | |
| Pollen | | | ✓ | | | |
| Condition | | | | | | |
| Temperature | | | ✓ | | | |
| Air movement | | | ✓ | | | |
| Humidity | | | ✓ | | | |

Conservation Management Systems

Certification of Quality Criteria

| RESOURCE CONSIDERATION/PROBLEM | Term Effect | | Meets Quality Criteria | | | |
|-----------------------------------|-------------|------|------------------------|----|---------|----|
| | Short | Long | Benchmark | | Planned | |
| | | | Yes | No | Yes | No |
| PLANTS | | | | | | |
| Suitability | | | | | | |
| Adapted to site | | | ✓ | | | |
| Intended use | | | ✓ | | | |
| Condition | | | | | | |
| Productivity | | | | ✓ | | |
| Health and vigor | | | | ✓ | | |
| Management | | | | | | |
| Establishment | | | ✓ | | | |
| Growth | | | | ✓ | | |
| Harvest | | | ✓ | | | |
| Nutrient management | | | | ✓ | | |
| Pests | | | | ✓ | | |
| Threatened and endangered species | | | ✓ | | | |
| ANIMALS(domestic/wildlife) | | | | | | |
| Habitat | | | | | | |
| Food | | | ✓ | | | |
| Cover | | | ✓ | | | |
| Shelter | | | ✓ | | | |
| Water | | | ✓ | | | |
| Threatened and endangered species | | | ✓ | | | |
| Management | | | | | | |
| Population and Resource Balance | | | | ✓ | | |
| Animal Health | | | ✓ | | | |

References:
 NPPH Pages 75-78
 FOTG Section III - Quality Criteria
 GM -450 Part 401 Paragraph 401.03