# MANAGEMENT SYSTEM TEMPLATE

## A. BENCHMARK SYSTEM WORKSHEET

| | | |
|---|---|---|
| 1. | STATE | Oklahoma |
| 2. | FIELD OFFICE | Boise City - Cimarron County |
| 3. | MLRA | 77B |
| 4. | COMMON RESOURCE AREA (CRA) | 077B.40.001 |
| 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 | Pastureland and Hayland Interpretations |
| 5.5 | ANIMAL | Threatened and Endangered Species List |
| 5.6 | HUMAN | |
| 6. | HYDROLOGIC UNIT | 11100103-014 |
| 7. | SYSTEM TEMPLATE LABEL | DAJKA |
| 8. | SYSTEM NAME | Aqua Fria - OWB - Dry |
| 9. | PLANNING PHASE | Benchmark |
| 10. | PLANNING LEVEL | N/A |
| 11. | NRCS LANDUSE | Pasture |
| 12. | EXISTING CONSERVATION PRACTICES | |

1. Pasture Planting (512)
2.
3.
4.
5.

**13. SYSTEM NARRATIVE**

This system consists of an improved pasture grass, Old world bluestem, that has been planted for increased production on old cropland fields. Soils consist of nearly level to gently sloping sandy loams to clay loams. Previous cropping history has deteriorated the soil tilth resulting in plants of low health and vigor. Forage production of Old world bluestems varies from 1200 lbs/ac. to 2000 lbs/ac. depending on the rainfall through the growing season. Continuous grazing and improper stocking rates are restricting optimum grass production and reducing maximum rain water infiltration. A lack of adequate watering facilities is not maximizing grazing distribution and contributing to poor animal performance. Fertilizer is not being applied according to grass production needs. Generally, haying and grazing occurs from May-July when the growing season has adequate moisture.

| 14. RESOURCE CONCERNS | MAGNITUDE/EFFECTS |
|---|---|
| 1. Soil - Condition - Tilth | 1. Soil Condition Index <0.0 |
| 2. Water - Quant. - Mgmt. - Non-irr. | 2. Not capturing maximum water |
| 3. Plant - Condition - Productivity | 3. 1200 lbs./acre |
| 4. Plant - Condition - Health & Vigor | 4. Poor root development |
| 5. Plant - Mngmt. - Est./Growth/Harvest | 5. Improper stocking rates |
| 6. Plant - Mngmt. - Nutrient | 6. Inaccurate fertilizer rates |
| 7. Animals - Habitat - Domes. Water | 7. Poor distribution |
| 8. Animals - Mngmt. - Pop./Resource Bal. | 8. 8 acres/AU |
| 9. | 9. |
| 10. | 10. |

## Conservation Management Systems

## Certification of Quality Criteria

| RESOURCE CONSIDERATION/PROBLEM | Term Effect Short | Term Effect Long | Meets Quality Criteria Benchmark Yes | Meets Quality Criteria Benchmark No | Meets Quality Criteria Planned Yes | Meets Quality Criteria Planned 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