# MANAGEMENT SYSTEM TEMPLATE

## A. BENCHMARK SYSTEM WORKSHEET

| | | |
|---|---|---|
| 1. | STATE | Oklahoma |
| 2. | FIELD OFFICE | Fairview - Major County |
| 3. | MLRA | 80A |
| 4. | COMMON RESOURCE AREA (CRA) | 080A.40.006 |
| 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 | Rangeland Interpretations |
| 5.5 | ANIMAL | Threatened and Endangered Species List; Wildlife Interpretations |
| 5.6 | HUMAN | |
| 6. | HYDROLOGIC UNIT | 11050001-090; 11050002-010, 020 |
| 7. | SYSTEM TEMPLATE LABEL | GFDZA |
| 8. | SYSTEM NAME | Gypsum Hills |
| 9. | PLANNING PHASE | Benchmark |
| 10. | PLANNING LEVEL | N/A |
| 11. | NRCS LANDUSE | Grazed Range |
| 12. | EXISTING CONSERVATION PRACTICES | |

1. Pond (378)
2. Trough or Tank (614)
3. Livestock Well (642)
4.
5.

**13. SYSTEM NARRATIVE**

This system consists of perennial native grasses on shallow, steep sloping upland soils. Gypsum outcrops are common throughout the area. The grass complex is diversified from short to mid-tall grasses, depending on past grazing patterns, with invading Eastern redcedar and Mesquite. This area is primarily used for livestock production with wildlife management as a secondary landuse. Gully erosion is a common occurence, sometimes separating pastures. Grazing occurs without consideration to balancing livestock numbers to forage available, with overgrazing common, resulting in plants of low vigor and poor productivity. Water facilities are inadequate to distribute grazing causing both over grazing and under utilization of grasses within a pasture.

| 14. | RESOURCE CONCERNS | MAGNITUDE/EFFECTS |
|---|---|---|
| 1. | Soil - Erosion - Classic gullies | 40 tons/yr |
| 2. | Plants - Condition - Productivity | Forage prod. 1500 lb/ac |
| 3. | Plants - Condition - Health/Vigor | Low quality/palatability |
| 4. | Plants - Mgt - Est/Growth/Harvest | Low production/no goals |
| 5. | Plants - Mgt - Pest | Moisture/nutrient competition |
| 6. | Animal - Habitat - Domestic Water | Inadequate facilities |
| 7. | Animal - Mgt. - Pop/Res. Balance | Poor distribution |
| 8. | | |
| 9. | | |
| 10. | | |

GYP HILLS 80A
RANGE



## 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