

## MANAGEMENT SYSTEM TEMPLATE

### A. BENCHMARK SYSTEM WORKSHEET

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                             |                                                                                                                                                                                                                                                                                                                               |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1.</b>  | <b>STATE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Oklahoma                                                    |                                                                                                                                                                                                                                                                                                                               |
| <b>2.</b>  | <b>FIELD OFFICE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Beaver - Beaver County                                      |                                                                                                                                                                                                                                                                                                                               |
| <b>3.</b>  | <b>MLRA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 77E                                                         |                                                                                                                                                                                                                                                                                                                               |
| <b>4.</b>  | <b>COMMON RESOURCE AREA (CRA)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 077E.40.001                                                 |                                                                                                                                                                                                                                                                                                                               |
| <b>5.</b>  | <b>RESOURCE INTERPRETATIONS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                             |                                                                                                                                                                                                                                                                                                                               |
| <b>5.1</b> | <b>SOIL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Soil Legends, Technical/Non-Technical Soils Interpretations |                                                                                                                                                                                                                                                                                                                               |
| <b>5.2</b> | <b>WATER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Water Quantity and Quality Interpretations                  |                                                                                                                                                                                                                                                                                                                               |
| <b>5.3</b> | <b>AIR</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                             |                                                                                                                                                                                                                                                                                                                               |
| <b>5.4</b> | <b>PLANT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Pastureland and Hayland Interpretations                     |                                                                                                                                                                                                                                                                                                                               |
| <b>5.5</b> | <b>ANIMAL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Threatened and Endangered Species List                      |                                                                                                                                                                                                                                                                                                                               |
| <b>5.6</b> | <b>HUMAN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                             |                                                                                                                                                                                                                                                                                                                               |
| <b>6.</b>  | <b>HYDROLOGIC UNIT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                             |                                                                                                                                                                                                                                                                                                                               |
| <b>7.</b>  | <b>SYSTEM TEMPLATE LABEL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | EAJZA                                                       |                                                                                                                                                                                                                                                                                                                               |
| <b>8.</b>  | <b>SYSTEM NAME</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sandy Uplands and Dunes                                     |                                                                                                                                                                                                                                                                                                                               |
| <b>9.</b>  | <b>PLANNING PHASE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Benchmark                                                   |                                                                                                                                                                                                                                                                                                                               |
| <b>10.</b> | <b>PLANNING LEVEL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | N/A                                                         |                                                                                                                                                                                                                                                                                                                               |
| <b>11.</b> | <b>NRCS LANDUSE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Pasture                                                     |                                                                                                                                                                                                                                                                                                                               |
| <b>12.</b> | <b>EXISTING CONSERVATION PRACTICES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                             |                                                                                                                                                                                                                                                                                                                               |
|            | <ol style="list-style-type: none"> <li>1. Wells (642)</li> <li>2. Trough or Tank (614)</li> <li>3.</li> <li>4.</li> <li>5.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                             |                                                                                                                                                                                                                                                                                                                               |
| <b>13.</b> | <b>SYSTEM NARRATIVE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                             |                                                                                                                                                                                                                                                                                                                               |
|            | <p>This system consists of an introduced pasture grass, Old world bluestem, that is used for livestock production. The landscape consists of gently rolling to moderately sloping sandy textured soils. Poor economic conditions have restricted the use of pasture management practices such as rotational grazing, installation of adequate livestock watering facilities, and nutrient management. Erosive gullies along with oil field erosion is common throughout the area. Inappropriate use of fertilizers and pesticides is creating a source of groundwater contamination due to the sandy texture of the soils.</p> |                                                             |                                                                                                                                                                                                                                                                                                                               |
| <b>14.</b> | <b>RESOURCE CONCERNS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                             | <b>MAGNITUDE/EFFECTS</b>                                                                                                                                                                                                                                                                                                      |
|            | <ol style="list-style-type: none"> <li>1. Soil - Erosion - Gullies</li> <li>2. Soil - Erosion - Drilling Sites</li> <li>3. Water - Quality - Groundwater</li> <li>4. Plant - Condition - Health &amp; Vigor</li> <li>5. Plant - Mngmt. - Est./Growth/Harvest</li> <li>6. Plant - Mngmt. - Nutrient</li> <li>7. Animals - Mngmt. - Pop. &amp; Res. Bal.</li> <li>8.</li> <li>9.</li> <li>10.</li> </ol>                                                                                                                                                                                                                         |                                                             | <ol style="list-style-type: none"> <li>1. 60 tons/year</li> <li>2. 20 tons/year</li> <li>3. Contaminated groundwater</li> <li>4. Poor forage production</li> <li>5. Poor grazing distribution</li> <li>6. Improper fertilization rates</li> <li>7. Decrease forage production</li> <li>8.</li> <li>9.</li> <li>10.</li> </ol> |

**Conservation Management Systems**

**Certification of Quality Criteria**

| RESOURCE CONSIDERATION/PROBLEM    | Term Effect |      | Meets Quality Criteria |    |         |    |
|-----------------------------------|-------------|------|------------------------|----|---------|----|
|                                   | Short       | Long | Benchmark              |    | Planned |    |
|                                   |             |      | Yes                    | No | Yes     | No |
| <b>SOIL</b>                       |             |      |                        |    |         |    |
| 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                            |             |      | ✓                      |    |         |    |
| <b>WATER</b>                      |             |      |                        |    |         |    |
| 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       |             |      | ✓                      |    |         |    |
| <b>AIR</b>                        |             |      |                        |    |         |    |
| 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 |
| <b>PLANTS</b>                     |             |      |                        |    |         |    |
| Suitability                       |             |      |                        |    |         |    |
| Adapted to site                   |             |      | ✓                      |    |         |    |
| Intended use                      |             |      | ✓                      |    |         |    |
| Condition                         |             |      |                        |    |         |    |
| Productivity                      |             |      | ✓                      |    |         |    |
| Health and vigor                  |             |      |                        | ✓  |         |    |
| Management                        |             |      |                        |    |         |    |
| Establishment                     |             |      |                        | ✓  |         |    |
| Growth                            |             |      |                        | ✓  |         |    |
| Harvest                           |             |      |                        | ✓  |         |    |
| Nutrient management               |             |      | ✓                      |    |         |    |
| Pests                             |             |      |                        | ✓  |         |    |
| Threatened and endangered species |             |      | ✓                      |    |         |    |
| <b>ANIMALS(domestic/wildlife)</b> |             |      |                        |    |         |    |
| 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