

National and State Resource Concerns and Quality Criteria					
Natural Resource Concern	Description of Concern	National Quality Criteria	Oklahoma Quality Criteria	Measurable Units	Assessment Tools for Quality Criteria Evaluation
ANIMALS					
<i>Fish and Wildlife</i> Inadequate Food	Quantity and quality of food is unavailable to meet the life history requirements of the species or guild of species of concern.	Food availability meets the life history requirements of the species or guild of species of concern.	Same as National	Non Measurable	<ul style="list-style-type: none"> • Visual assessment • Inventory of food species • Aerial photo analysis • Oklahoma Wildlife Habitat Appraisal Guide • National Biology Handbook
<i>Fish and Wildlife</i> Inadequate Cover/Shelter	Cover/shelter for the species or guild of species of concern is unavailable or inadequate. This includes lack of hiding, thermal, and/or refuge cover.	The ecosystem or habit types support the necessary plant species in adequate diversity, abundance, and physical structure; and the connectivity of fish and wildlife cover is adequate to support, over time, the species or guild of species of concern.	Same as National	Non Measurable	<ul style="list-style-type: none"> • Visual assessment • Inventory of cover/shelter • Aerial photo analysis • Oklahoma Wildlife Habitat Appraisal Guide • National Biology Handbook
<i>Fish and Wildlife</i> Inadequate Water	The quantity and quality of water is unacceptable for the species or guild of species of concern.	The quantity and quality of water meets the life history requirements of the species or guild of species of concern.	Same as National	Non Measurable	<ul style="list-style-type: none"> • Surface water dissolved oxygen sampling and assay • Stream Visual Assessment Protocol • Habitat Suitability Index - model for target species • Inventory of water supplies • Aerial photo analysis • Oklahoma Wildlife Habitat Appraisal Guide • National Biology Handbook

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<i>Fish and Wildlife</i> Inadequate Space	Lack of required areas disrupts the life history of the species or guild of the species of concern.	Area is adequate to meet life history requirements of the species or guild of species of concern. (Examples: staging areas for rest and feeding, lekking areas for breeding, migratory movement corridors.)	Same as National	Non Measurable	<ul style="list-style-type: none"> • Visual assessment • Stream Visual Assessment Protocol • Inventory of space/areas • Aerial photo analysis • Oklahoma Wildlife Habitat Appraisal Guide • National Biology Handbook
<i>Fish and Wildlife</i> Habitat Fragmentation	Habitat has insufficient structure, extent, and connectivity to provide ecological functions and/or achieve management objectives.	Fish and wildlife habitats are connected and are maintained sufficiently to support the species or guild of species of concern.	Same as National	Non Measurable	<ul style="list-style-type: none"> • Stream Visual Assessment Protocol • Aquatic and terrestrial habitat evaluation procedures • Oklahoma Wildlife Habitat Appraisal Guide
<i>Fish and Wildlife</i> Imbalance Among and Within Populations	Populations are not in proportion to available quantities and qualities of food (plants, predator/prey), cover/shelter, water, and space and other life history requirements.	Land and water use and management are consistent with direct population management activities conducted by fish and wildlife agencies.	Same as National	Non Measurable	<ul style="list-style-type: none"> • Fish and wildlife agency guidance and protocols

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<i>Fish and Wildlife</i> Threatened and Endangered Fish and Wildlife Species: Fish and Wildlife Species Listed or Proposed for Listing under the Endangered Species Act	This site includes individuals, habitat or potential habitat for one or more fish or wildlife species listed or proposed for listing under the Endangered Species Act.	Populations and/or habitats of threatened and endangered fish and wildlife species and/or habitats they occupy are managed to maintain, increase, or improve current populations, health, or sustainability.	Same as National	Non Measurable	<ul style="list-style-type: none"> • Client interviews • Inventory of presence/absence of T&E species • General Manual, 190, Part 410 • Oklahoma Threatened and Endangered Species List • Fish and wildlife recovery plans • Federal and state endangered species rules and regulations • Consultation with appropriate federal, state, and local agencies/groups • Fish and wildlife agency web sites

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<i>Fish and Wildlife</i> Threatened and Endangered Species: Federal, State, or Tribal Recognized Species	This site includes individuals, habitat or potential habitat for one or more fish or wildlife species that the State or Tribal government with jurisdiction, or the State Technical Committee, has identified as a species of concern. This includes plant species that have been identified as candidates for listing under the Endangered Species Act.	Populations and or habitats of fish and wildlife species of concern are managed to maintain, increase, or improve current populations, health, or sustainability.	Same as National	Non Measurable	<ul style="list-style-type: none"> • Client interviews • Inventory of presence/absence of T&E species • Oklahoma Threatened and Endangered Species List • Fish and wildlife recovery plans • Federal and state endangered species rules and regulations • Consultation with appropriate federal, state, and local agencies/groups
<i>Domestic Animals</i> Inadequate Quantities and Quality of Feed and Forage	Total feed and forage are insufficient to meet the nutritional and production needs of the kinds and classes of livestock.	Feed and forage including supplemental nutritional requirements, are provided to meet production goals for the kinds and classes of livestock. Native grazers are factored into the total feed and forage balance computations.	Same as National	Non Measurable	<ul style="list-style-type: none"> • Measured inventory • National Range and Pasture Handbook • Grazing Lands Application (GLA) software • Nutritional Balance Program (NUTBAL) • NIRS/Nutritional Balance Profile Program (NUTBAL Pro) • Forage quality laboratory analysis • Other State adapted forage/livestock management software and job sheets

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<i>Domestic Animals</i> Inadequate Shelter	Livestock are not protected sufficiently to meet the production goals for the kinds and classes of livestock.	Artificial and/or natural shelter is provided to meet production goals for the kinds and classes of livestock.	Same as National	Non Measurable	<ul style="list-style-type: none"> • Visual assessment • Inventory of facilities and their capacities • Aerial photo analysis • National Range and Pasture Handbook
<i>Domestic Animals</i> Inadequate Stock Water	The quantity, quality and distribution of drinking water are insufficient to meet the production goals for the kinds and classes of livestock.	Sufficient water of acceptable quality is provided and adequately distributed to meet production goals for the kinds and classes of livestock. To reduce potential for water contamination, watering facilities are constructed or modified to minimize mortality to indigenous wildlife.	Same as National with the following additions: Storage and delivery rates are sufficient to meet herd demands. Water distribution (spacing) is sufficient to meet demand and have positive impact on grazing distribution.	Non Measurable	<ul style="list-style-type: none"> • Visual assessment • Inventory of distribution needs • Aerial photo analysis • National Range and Pasture Handbook
<i>Domestic Animals</i> Stress and Mortality	Animals exhibit illness or death from disease, parasites, insects, poisonous plants, or other factors.	Land and water use and management are consistent with activities conducted to alleviate stress and mortality factors.	Same as National	Non Measurable	<ul style="list-style-type: none"> • Animal health/mortality alerts • State and local biosecurity protocols • State and local standards for animal disposal