National and State Resource Concerns and Quality Criteria				
Natural Resource Concern	**Description of Concern**	**National Quality Criteria**	**State Quality Criteria**	**Assessment Tools for Quality Criteria Evaluation**
ANIMALS				
Fish and Wildlife - 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.	Illinois Wildlife Habitat Evaluation index of at least 0.4 for habitat types that comprise more than 25% of the area OR Wildlife habitat evaluation guide for the species of concern yields an index of 0.5 or greater for the land use.	• Illinois Wildlife Habitat Evaluation (Biology Technical Note IL-18) • Approved wildlife habitat evaluation guide index (e.g. U.S. Fish and Wildlife Service Habitat Suitability Index Model) • Visual assessment • Inventory of food species • Aerial photo analysis • State Adapted Wildlife Habitat Evaluation Guide • National Biology Handbook
Fish and Wildlife – Inadequate Cover/Shelter	Cover/shelter for the species of concern is unavailable or inadequate. For aquatic species, this includes lack of hiding, thermal, and/or refuge cover	The ecosystem or habit types support the necessary plant species in the kinds, amounts, and physical structure; and the connectivity of fish and wildlife cover is adequate to support, over time, the species of concern.	Illinois Wildlife Habitat Evaluation index of at least 0.4 for habitat types that comprise more than 25% of the area OR Wildlife habitat evaluation guide for the species of concern yields an index of 0.5 or greater for the land use.	• Illinois Wildlife Habitat Evaluation (Biology Technical Note IL-18) • Approved wildlife habitat evaluation guide index (e.g. Missouri Wildlife Habitat Appraisal Guide or U.S. Fish and Wildlife Service Habitat Suitability Index Model) • Visual assessment • Inventory of cover/shelter • Aerial photo analysis • State Adapted Wildlife Habitat Evaluation Guide • National Biology Handbook

National and State Resource Concerns and Quality Criteria				
Natural Resource Concern	**Description of Concern**	**National Quality Criteria**	**State Quality Criteria**	**Assessment Tools for Quality Criteria Evaluation**
ANIMALS				
Fish and Wildlife – Inadequate Water	The quantity and quality of water is unacceptable for the species of concern	The quantity and quality of water meets the life history requirements of the species of concern.	Illinois Wildlife Habitat Evaluation index of at least 0.4 for habitat types that comprise more than 25% of the area OR Wildlife habitat evaluation guide for the species of concern yields an index of 0.5 or greater for the land use.	• Illinois Wildlife Habitat Evaluation (Biology Technical Note IL-18) • Approved wildlife habitat evaluation guide index (e.g. Missouri Wildlife Habitat Appraisal Guide or U.S. Fish and Wildlife Service Habitat Suitability Index Model) • 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 • State Adapted Wildlife Habitat Evaluation Guide • National Biology Handbook
Fish and Wildlife – Inadequate Space	Lack of area and fragmentation of areas disrupt life history requirements of the species of concern	Adequate area and connectivity of areas meet life history requirements of the species of concern. (Examples: staging areas for rest and feeding, lekking areas for breeding, migratory movement corridors)	Wildlife habitat evaluation guide for the species of concern yields an index of 0.5 or greater for the land use.	• Approved wildlife habitat evaluation guide index (e.g. Missouri Wildlife Habitat Appraisal Guide or U.S. Fish and Wildlife Service Habitat Suitability Index Model) • Visual assessment • Stream Visual Assessment Protocol • Inventory of space/areas • Aerial photo analysis • State Adapted Wildlife Habitat Evaluation Guide • National Biology Handbook
Fish and Wildlife - 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.	• Fish and wildlife agency guidance and protocols

National and State Resource Concerns and Quality Criteria				
Natural Resource Concern	**Description of Concern**	**National Quality Criteria**	**State Quality Criteria**	**Assessment Tools for Quality Criteria Evaluation**
ANIMALS				
Fish and Wildlife - Threatened and Endangered Species	Fish and wildlife populations and/or habitat quantity and quality have reached a level that one or more species are in danger of or threatened with extinction.	Threatened and endangered fish and wildlife species and/or habitats they occupy are managed to avoid actions that would reduce their current population, health, or sustainability.	Wildlife habitat evaluation guide for the species of concern yields an index of 0.5 or greater for the land use.	• Approved wildlife habitat evaluation guide index (e.g. Missouri Wildlife Habitat Appraisal Guide or U.S. Fish and Wildlife Service Habitat Suitability Index Model) • Client interviews • Inventory of presence/absence of T&E species • General Manual, 190, Part 410 • US Fish and Wildlife Service county endangered species lists • 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
Domestic Animals – Inadequate Quantities and Quality of Feed and Forage	Total feed and forage is 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	• 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
Domestic Animals – 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	• Visual assessment • Inventory of facilities and their capacities • Aerial photo analysis • National Range and Pasture Handbook

National and State Resource Concerns and Quality Criteria				
Natural Resource Concern	**Description of Concern**	**National Quality Criteria**	**State Quality Criteria**	**Assessment Tools for Quality Criteria Evaluation**
ANIMALS				
Domestic Animals – Inadequate Stock Water	The quantity, quality and distribution of drinking water is 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	• Visual assessment • Inventory of distribution needs • Aerial photo analysis • National Range and Pasture Handbook
Domestic Animals - 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	• Animal health/mortality alerts • State and local biosecurity protocols • State and local standards for animal disposal