

National and State Resource Concerns and Quality Criteria

Animals

National Natural Resource Concern	Description of Concern	Quality Criteria	State Quality Criteria	Measurement Units	Assessment Tools for Quality Criteria Evaluation
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.	Food availability meets the life history requirements of the species or guild of species of concern. <i>Habitat is managed to meet Upland Wildlife Habitat Management (645) or Wildlife Wetland Habitat Management (644) standards.</i>	Non Measurable; based on habitat evaluation guide	<ul style="list-style-type: none"> • Visual assessment • Inventory of food species • Aerial photo analysis • National Biology Handbook • WV Wildlife Habitat Evaluation Technique 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.	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. <i>Habitat is managed to meet Upland Wildlife Habitat Management (645), Wildlife Wetland Habitat Management (644) or Stream Habitat Improvement and Management (395) standards.</i>	Non Measurable; based on habitat evaluation guide	<ul style="list-style-type: none"> • Visual assessment • Inventory of cover/shelter • Aerial photo analysis • National Biology Handbook • WV Wildlife Habitat Evaluation Technique Handbook
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.	The quantity and quality of water meets the life history requirements of the species of concern. <i>Dissolved oxygen levels are sufficient for intended use based on measured samples.</i>	Non Measurable; based on habitat evaluation guide	<ul style="list-style-type: none"> • Aerial photo analysis • Surface water dissolved oxygen sampling and assay • Stream Visual Assessment Protocol • Inventory of water supplies

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Fish and Wildlife – 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; based on habitat evaluation guide	<ul style="list-style-type: none"> • WV Wildlife Habitat Evaluation Technique Handbook • Stream Visual Assessment Protocol
Fish and Wildlife – Threatened and Endangered Fish and Wildlife Species – Fish and Wildlife Species Listed or Proposed for Listing under the Endangered Species Act	The 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 • 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

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Fish and Wildlife – Threatened and Endangered Species – Federal, State or Tribal Recognized Species	The 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 which 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 • 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

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Fish and Wildlife – Threatened and Endangered Species, Declining Species, and Species of Concern	Populations and/or habitat quantity and quality have reached a level that one or more species are officially recognized as species of concern.	Fish or wildlife, and/or habitats they occupy, are managed to increase their 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 • 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 • Client interviews
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	Non Measurable	<ul style="list-style-type: none"> • Measured inventory • Grazing Lands Application (GLA) software • Nutritional Balance Program (NUTBAL) • NIRS/Nutritional Balance Profile Program (NUTBAL Pro) • Forage quality laboratory analysis • Prescribed Grazing (528) worksheets

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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	Non Measurable	<ul style="list-style-type: none"> • Visual assessment • Inventory of facilities and their capacities • Aerial photo analysis
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	Non Measurable	<ul style="list-style-type: none"> • Visual assessment • Inventory of distribution needs • Aerial photo analysis • Prescribed Grazing (528) standard • Watering Facility (614) standard
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	Non Measurable	<ul style="list-style-type: none"> • Animal health/mortality alerts • State and local bio-security protocols • State and local standards for animal disposal