

Natural Resource Concern	Description of Concern	Virginia Quality Criteria	Assessment Tools for Quality Criteria Evaluation	Measurement Unit
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	<p>Food availability meets the life history requirements of the species or guild of species of concern.</p> <p>The composite Habitat Evaluation Procedure Index for the conservation treatment unit is 0.3 or greater, where wildlife land is not the primary land use, but there is an interest in wildlife.</p> <p>The composite Habitat Evaluation Procedure Index is 0.75 or greater, where the wildlife land is the primary land use.</p>	<ul style="list-style-type: none"> • Visual assessment • Inventory of food species • Aerial photo analysis • State Adapted Wildlife Habitat Evaluation Guide • National Biology Handbook 	Non Measurable; based on habitat evaluation guides
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	<p>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.</p> <p>The composite Habitat Evaluation Procedure Index for the conservation treatment unit is 0.3 or greater, where wildlife land is not the primary land use, but there is an interest in wildlife.</p> <p>The composite Habitat Evaluation Procedure Index is 0.75 or greater, where the wildlife land is the primary land use.</p>	<ul style="list-style-type: none"> • Visual assessment • Inventory of cover/shelter • Aerial photo analysis • State Adapted Wildlife Habitat Evaluation Guide • National Biology Handbook 	Non Measurable; based on habitat evaluation guides

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Fish and Wildlife – Inadequate Water	The quantity and quality of water is unacceptable for the species of concern	SAME AS NATIONAL The quantity and quality of water meets the life history requirements of the species of concern.	<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 • State Adapted Wildlife Habitat Evaluation Guide • National Biology Handbook • Practice standards – Section IV 	Non Measurable; based on habitat evaluation guides
Fish and Wildlife – Inadequate Space	Lack of area and fragmentation of areas disrupt life history requirements of the species of concern	SAME AS NATIONAL 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)	<ul style="list-style-type: none"> • Visual assessment • Stream Visual Assessment Protocol • Inventory of space/areas • Aerial photo analysis • State Adapted Wildlife Habitat Evaluation Guide • National Biology Handbook 	Non Measurable; based on habitat evaluation guides
Fish and Wildlife - Habitat Fragmentation	Habitats have insufficient structure, extent, and connectivity to provide ecological functions and/or achieve management objectives.	SAME AS NATIONAL Fish and wildlife habitat are connected and plant communities are maintained sufficiently to support the species or guild of species of concern	<ul style="list-style-type: none"> • Stream Visual Assessment Protocol • Aquatic and terrestrial habitat evaluation procedures • Wildlife Habitat Evaluation Guide (WHEG) 	Non Measurable; based on habitat evaluation guides
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.	SAME AS NATIONAL Land and water use and management are consistent with direct population management activities conducted by fish and wildlife agencies.	<ul style="list-style-type: none"> • Fish and wildlife agency guidance and protocols • National Biology Handbook 	Non Measurable; based on habitat evaluation guides

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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.	SAME AS NATIONAL 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.	<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 • Virginia Department of Natural Heritage & Department of Game and Inland Fisheries Data Bases 	Non Measurable
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	SAME AS NATIONAL 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.	<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 	Non Measurable

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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	SAME AS NATIONAL Artificial and/or natural shelter is provided to meet production goals for the kinds and classes of livestock.	<ul style="list-style-type: none"> • Visual assessment • Inventory of facilities and their capacities • Aerial photo analysis • National Range and Pasture Handbook 	Non Measurable
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	SAME AS NATIONAL 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.	<ul style="list-style-type: none"> • Visual assessment • Inventory of distribution needs • Aerial photo analysis • National Range and Pasture Handbook • Practice Standards – Section IV 	Non Measurable
Domestic Animals - Stress and Mortality	Animals exhibit illness or death from disease, parasites, insects, poisonous plants, or other factors	SAME AS NATIONAL Land and water use and management are consistent with activities conducted to alleviate stress and mortality factors.	<ul style="list-style-type: none"> • Animal health/mortality alerts • State and local biosecurity protocols • State and local standards for animal disposal • Visual Assessment • National Range and Pasture Handbook 	Non Measurable