South Dakota Resource Concerns Score Sheet

A **Resource Concern** is defined as an expected degradation of the soil, water, air, plant, or animal resource base to an extent the sustainability or intended use of the resource is impaired. Because NRCS quantifies or describes resource concerns as part of a comprehensive conservation planning process that includes client objectives, human and energy resources are considered components of the resource base.

	Sheet & Rill Erosion	Detachment and transport of soil particles caused by rainfall, melting snow, or irrigation.	
	Wind Erosion	Detachment and transport of soil particles caused by wind.	
	Ephemeral Gully Erosion	Soil erosion that results in small gullies in the same flow area that can be obscured by tillage.	
	Classical Gully Erosion	Gullies created by runoff that can enlarge a channel progressively by head cutting and/or lateral widening.	
	Bank erosion from streams, shorelines, or water conveyance channels	Erosion resulting from poor land management practices, storm events, wave action, rain, ice, wind, runoff, loss of vegetation, hydrologic dynamics, stream isolation from floodplains, and/or other disturbed/altered geomorphological processes.	
	Subsidence	Loss of volume and depth of organic soils due to oxidation caused by above normal microbial activity resulting from excessive water drainage, soil disturbance, or extended drought. This excludes karst sinkholes and issues, or depressions caused by underground activities. This resource concern is only applicable when the soil is a histosol.	
•	Compaction	Management-induced soil compaction at any level throughout the soil profile resulting in reduced plant productivity, biological activity, infiltration and aeration.	
	Organic Matter Depletion	Management-induced depletion of any or all pools of soil organic matter resulting in limited soil function and processes that support plant productivity, biological activity and water and nutrient cycling.	
	Concentration of salts or other chemicals	Concentration of salts leading to salinity and/or sodicity reducing productivity or limiting desired use, or concentrations of other chemicals impacting productivity, populations of beneficial organisms or limiting desired use.	
	Soil organism habitat loss or degradation	Quantity, quality, diversity or connectivity of food, cover, space, shelter and/or water is inadequate to meet requirements of beneficial soil organisms.	
	Aggregate Instability	Management-induced degradation of water stable soil aggregates resulting in destabilized soil carbon; surface crusting; reduced water infiltration, water holding capacity, and aeration; depressed resilience to extreme weather; increased pondingand flooding; increased soil erosion and plant stress; and reduced habitat and soil biological activity.	
•	Ponding and Flooding	Water covering the land surface, along with saturated conditions below the surface, degrades natural resources, or restricts capability of land to support its intended use.	
	Seasonal High Water Table	Ground water or a perched water table causing saturated conditions near the surface degrades water resources or restricts capability of land to support its intended use.	
	Seeps	Sub-surface saturated flows that percolates slowly to the surface, degrades water resources, or restricts capability of land to support its intended use.	

	Emissions of Ozone Precursors	Emissions of ozone precursors – oxides of nitrogen and volatile organic compounds – result in formation of ground-level ozone, which can have negative impacts to human, plant, and animal health.	
AIR	Objectionable Odors	Emissions of odorous compounds – volatile organic compounds, ammonia, and odorous sulfur compounds – can cause nuisance conditions.	
	Emissions of Airborne Reactive Nitrogen	Emissions of airborne reactive nitrogen – ammonia and oxides of nitrogen – can negatively impact atmospheric chemistry, cause unwanted fertilization via deposition in sensitive ecosystems, and degrade regional visibility.	
LAN	Plant Productivity and Health	Improper fertility, management or plants not adapted to site negatively impact plant productivity, vigor and/or quality.	
	Plant Structure and Composition	Plant communities have insufficient composition and structure to achieve ecological functions and management objectives. This resource concern includes degradation of wetland habitat, targeted ecosystems, or unique plant communities.	
	Plant Pest Pressure	Excessive pest damage to plants including that from undesired plants, diseases, animals, soil borne pathogens, and nematodes. This concern addresses invasive plant, animal and insect species.	
	Wildfire Hazard from Biomass Accumulation	The kinds and amounts of plant biomass create wildfire hazards that pose risks to human safety, structures, plants, animals, and air resources.	
AMIMAL	Terrestrial Habitat for Wildlife and Invertebrates	Quantity, quality or connectivity of food, cover, space, shelter and/or water is inadequate to meet requirements of identified terrestrial wildlife or invertebrate species.	
	Aquatic Habitat for Fish and Other Organisms	Habitat requirements of identified fish and other organisms are inadequate.	
	Feed and Forage Imbalance	Feed and Forage quality or quantity is inadequate for nutritional needs and production goals of the kinds and classes of livestock.	
	Inadequate Livestock Shelter	Livestock lack adequate shelter from climatic conditions to meet basic needs.	
	Inadequate Livestock Water Quantity, Quality, and Distribution	Quantity and quality of drinking water are insufficient to meet basic needs for the kind and class of livestock and improper distribution negatively impacts other resources.	
	Energy Efficiency of Equipment and Facilities	Stationary equipment or facilities are using energy inefficiently.	
	Energy efficiency of farming/ranching practices and field operations	Mobile on-farm, ranching, forestry or field operations are using energy inefficiently.	