

State Specific Training Module for South Dakota

Purpose of this Module

This module will provide some general information that TSPs need to conduct conservation planning in our state. This information is general in nature so the TSP may need to follow up with additional reading or training to make sure they have the knowledge, skill, licenses and certifications to conduct conservation planning in this state.

Review of State Laws

- While the following review provides an overview of State laws that commonly impacts conservation planning in South Dakota, it should not be considered as an exhaustive, or all-inclusive list of State laws impacting conservation planning.
- Conservation planners are also encouraged to contact the local NRCS Field Office for additional information regarding any state or local laws, ordinances, or regulations that may impact conservation planning.

Review of State Laws

- Examples of regulations that may impact conservation planning includes, but is not limited to:
 - County zoning permits
 - County Stormwater/Drainage Management Ordinance
 - Setback Requirements
 - Nutrient Management and manure hauling restrictions
 - SD Department of Agriculture and Natural Resources (DANR) General Water Pollution Control Permit for Concentrated Animal Feeding Operations
 - SD DANR Stormwater Permit for Construction Activities
 - SD DANR Water Rights Permit
 - SD DANR Safety of Dam Requirements
 - SD One-Call

Review of State Laws

- **Comprehensive Nutrient Management Plans (CNMP)**
 - The State of South Dakota requires a professional engineering license to develop the manure wastewater handling and storage portion of a CNMP Plan.
- **Nutrient Management**
 - The State of South Dakota does not require that nutrient management planners be certified. However, nutrient management with manures and other organic sources of nutrients is regulated by the state.
- **Pest Management**
 - The State of South Dakota does not require that pest management planners be certified.
- **Commercial applicators of pest management products must be certified through the South Dakota Department of Agriculture.**

Review of State Laws

- Practice of Engineering
 - South Dakota law stipulates that only qualified persons shall be authorized to engage in the practice of engineering in the State
 - A qualified person is interpreted as one who is licensed in the State of South Dakota as a Professional Engineer.
 - Applies to the planning, design, installation, and/or the certification of conservation practices that include “Engineering” as a responsible discipline (as listed in South Dakota’s NRCS Field Office Technical Guide (FOTG)).
- Relevant South Dakota laws include:
 - South Dakota Codified Law (SDCL) Chapter 36-18A
 - https://sdlegislature.gov/Statutes/Codified_Laws/2060455

Review of State FOTG Requirements

- Planners should be thoroughly familiar with the conservation practice standards that have been incorporated into the South Dakota Field Office Technical Guide (FOTG) and are being considered as part of the offered alternatives for addressing the client's resource concerns.
- The Planner should also utilize the specifications, Technical Notes, Operation and Maintenance (O&M) instructions and job sheets that are available for the practices in the South Dakota FOTG.

<https://efotg.sc.egov.usda.gov/#/state/SD/documents>

Review of State FOTG Requirements

Vegetative Practices

- South Dakota has diverse soil conditions that may impact the success of a vegetative practice. In developing vegetative practice specifications, planners should consider soil conditions such as, but not limited to:
 - landscape position, available water holding capacity, aspect, slope, drainage class, fertility level, soil depth, flooding and ponding limitations.

Review of State FOTG Requirements

Engineering Practices

- South Dakota has diverse soil conditions that may impact the success of a structural practice. Refer to the NRCS web soil survey and South Dakota engineering guidance to obtain site specific information about engineering properties.
- Engineering Resources such as standard drawings, design tools, and technical notes are located in FOTG, Section 1.
- Climatic information about average frost depth, precipitation and runoff is found in FOTG, Section 2, and within South Dakota engineering guidance.
- Construction and Material Specifications are located in FOTG, Section 4.

Review of Important Resource Issues

- Environmental Evaluation Worksheet (NRCS-CPA-52) and Special Environmental Concerns
 - [South Dakota | Field Office Technical Guide | NRCS - USDA](#)
- Endangered and Threatened (E&T) Species
 - Consult the information in the Threatened and endangered Species folder found in Section 2 of the FOTG. Refer to and consult the South Dakota Procedures for Threatened, Endangered, and Species of Special Concern, Chapter 3 for all instructions on this topic. [South Dakota | Field Office Technical Guide | NRCS - USDA](#)

Review of Important Resource Issues

- South Dakota is home to numerous E&T Species

- **LISTED SPECIES in SOUTH DAKOTA:**

- American Burying Beetle (*Nicrophorus americanus*) - Threatened
- Black-footed Ferret (*Mustela nigripes*) - Endangered, Experimental
- Dakota Skipper (*Hesperia dacotae*) – Threatened
- Eskimo Curlew (*Numenius borealis*) - Endangered
- Gray Wolf (*Canis lupus*) - Endangered
- Higgins Eye Pearlymussel (*Lampsilis higginsii*) – Endangered
- Leedy's Roseroot (*Rhodiola integrifolia* ssp. *leedyi*) – Threatened
- Northern Long-eared Bat (*Myotis septentrionalis*) - Endangered
- Pallid Sturgeon (*Scaphirhynchus albus*) - Endangered
- Piping Plover (*Charadrius melodus*) – Threatened
- Poweshiek Skipperling (*Oarisma poweshiek*) – Endangered
- Rufa Red Knot (*Calidris canutus rufa*) – Threatened
- Rusty-patched Bumblebee (*Bombus affinis*) - Endangered
- Scaleshell Mussel (*Leptodea leptodon*) - Endangered
- Topeka Shiner (*Notropis topeka*) - Endangered
- Western Prairie Fringed Orchid (*Platanthera praeclara*) - Threatened
- Whooping Crane (*Grus americana*) – Endangered

- **CANDIDATE SPECIES in SD:**

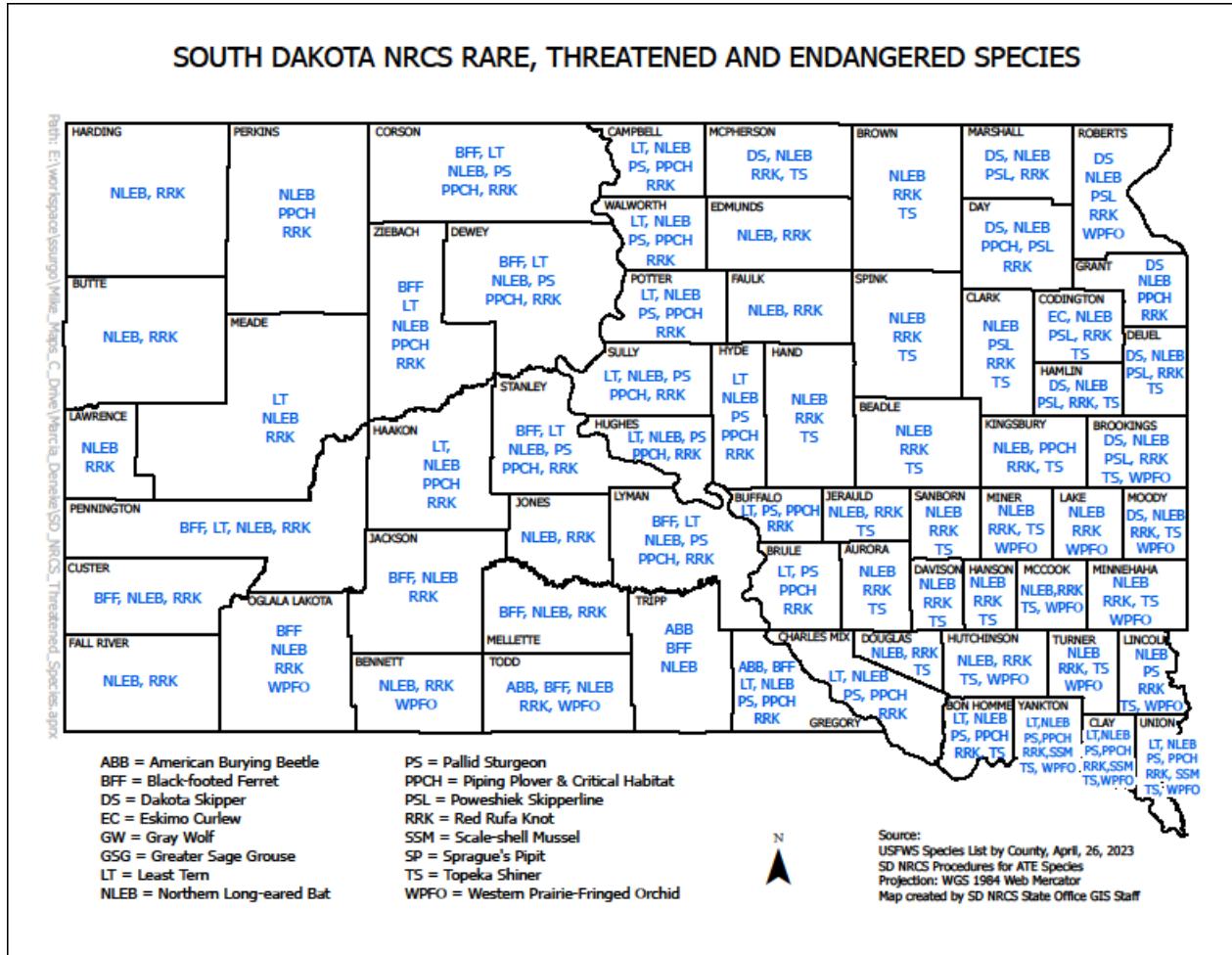
- *Monarch Butterfly (*Danaus plexippus*)

- **PROPOSED SPECIES in SD:**

- *Tricolored Bat (*Perimyotis subflavus*)

*Must consider Candidate and Proposed species when doing intra-service consultations; Candidates are treated by USFWS as Proposed species (i.e., conduct a conference).

Review of Important Resource Issues



Review of Major Land Uses or Agronomic Practices

- South Dakota has approximately 43 million acres of farmland
 - 46% Cropland
 - 52% Pasture
 - 2% Other Uses
- Statewide, primary crops produced include:
 - Corn (5,000,000 acres) ^{1/}
 - Soybeans (5,000,000 acres) ^{1/}
 - Wheat (1,000,000 acres) ^{1/}

^{1/} Source: 2017 Census of Agriculture

Review of Major Land Ownership

Approximately 7% of this state is public lands. Most of the public land is managed for multiple use, and leases by individual ranchers are common. Conservation planning on private land may include a public component, however the opportunity for private individuals to construct permanent conservation practices on public lands is limited.

Expected TSP Workflow

- TSP planner candidates will submit plans for the planning level being requested as identified in [Title 180-General Manual Part 409](#).
 - If the TSP Planner candidate is a resident of South Dakota, the TSP should notify the South Dakota TSP coordinator that the required plan(s) are completed.
 - When applicable, the TSP Coordinator will work with the State Resource Conservationist (SRC) to identify an NRCS Level III or IV Certified Conservation Planner so that a field review of the RMS plan may be completed.
 - The candidate will be accompanied to the field by the NRCS Level III or IV Certified Conservation Planner to meet with the plan decision maker.
 - The candidate will be expected to demonstrate competency in the planning process, to include the appropriate resource assessment tools, and plan development.
 - After a field review of the conservation plan has been completed, the conservation plan and review documents will be submitted to the SRC for concurrence by the State Conservationist. The plan will be submitted with a letter from the reviewer acknowledging the field review and recommendation for certification.

Expected TSP Workflow

- The State Resource Conservationist (SRC) will be responsible for reviewing TSP conservation planning for the National Planner Certification.
 - CNMP Plan reviews may be delegated to the SD NRCS Nutrient Management Team Leader or the State Agronomist
- The SRC will conduct plan reviews for TSP planner certification renewals.
 - Renewal reviews may be delegated to a NRCS Level III or IV Certified Conservation Planner
- TSPs will work with the local Resource Unit Conservationist (RUC) to make sure the proper environmental evaluations (NRCS-CPA-52) are completed, and deliverables are met.

TSP Contacts and Resources

- The South Dakota TSP Coordinators
 - Marcia Deneke marcia.deneke@usda.gov
 - Daniel Ostrem daniel.ostrem@usda.gov
- The SD NRCS Ag Nutrient Management Team
 - John Lentz (Team Leader) john.lentz@usda.gov
 - Jason Gilb (Conservation Agronomist) jason.gilb@usda.gov
 - Justin Bonnema (Ag Engineer) justin.bonnema@usda.gov
 - Brent Culp (Civil Engineering Technician) brent.culp@usda.gov

Additional References

- SD Field Office Technical Guide: [South Dakota | Field Office Technical Guide | NRCS - USDA](#)
- SD TSP Information Page: [Technical Service Provider | Natural Resources Conservation Service \(usda.gov\)](#)
- SD NRCS CNMP Page: [Comprehensive Nutrient Management Planning \(CNMP\) | Natural Resources Conservation Service \(usda.gov\)](#)
- SD State University Nutrient Management Guide: [Fertilizer Recommendations Guide \(sdstate.edu\)](#)
- South Dakota Department of Agriculture and Natural Resources. General Water Pollution Control Permit for Concentrated Animal Feeding Operations, April 2017: <https://danr.sd.gov/Agriculture/Livestock/FeedlotPermit/FormsPermits/GeneralPermit-2017.aspx>

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Certificate of Completion

After viewing the State Specific Training module, please print and sign the completion certificate on the following slide.

The certificate is your acknowledgement that based on the information provided in this module, you have the proper knowledge, skills and ability to conduct planning in this State.

Within your NRCS Registry profile, enter the training and upload the signed certificate to verify completion.

STATE SPECIFIC TRAINING MODULE COMPLETION CERTIFICATE

I, _____ hereby verify I have viewed and understand the content of the South Dakota State
TSP Name
Specific Training Module and affirm I have the knowledge, skills, and ability to conduct conservation planning
services in this state.

TSP Signature

Date