

Brooke Moore

(308) 362 - 7061 | brooke.moore@eagles.csc.edu
36840 S Old Hwy 83 | Wellfleet, Nebraska 69170

Objective

Secure a range management position where I can utilize my education and experience to manage range vegetation to promote ecological diversity and use my interpersonal skills to create better relationships with permittees and partners.

Education

Chadron State College

Major: Rangeland Management with a focus in Ecology

GPA: 3.725 out of 4.00

Graduation Date: May 2019

Academic Achievements

Graduated Cum Laude

President's List

Dean's List

May 2019

Fall 2018 to Spring 2019

Spring 2016 to Spring 2018

Job Training and Skills

- Certified in South Dakota with a commercial applicator license in categories G, 1A, 1B and 12. Licensed to apply general pesticides, agricultural herbicides, agricultural insecticides, rodenticides, and treatment for bird pests
- Certified in Adult and Pediatric First Aid/CPR/AED through the American Red Cross
- Certified through the USDA in the operation of 4x4 vehicles, all-terrain vehicles (ATVs), recreational off-highway vehicles (ROV, UTV, and side-by-sides), and flatbed trailers
- Certified as a Firefighter Type 2 through the Nebraska National Forest
- Certified to teach Stress First-Aid Training
- Extensive experience of plant identification, morphology, and taxonomy, including grasses, grass-like plants, and forbs
- Experience with collecting, pressing, and mounting plants.
- Experience communicating on radios in two-way and three-way communications
- Utilize mobile technologies to help identify and catalog plant and animal species.

Volunteer Work

- **Rotary Youth Leadership Award (RYLA) Camp Counselor 2015 to Present**
 - I am a camp counselor for RYLA, which is a camp for high school students that teaches the campers what type of leader they are and the importance of being a leader. During the week of camp we bring in speakers to give them different perspectives on what leaders look like and also allow them to discover what kind of leaders they are as well through different quizzes and questionnaires.
- **Bat Equipment Monitoring 2018**
 - I volunteered to help the Pine Ridge District set up bat acoustic devices to monitor areas around Chadron, NE and Crawford, NE to collect data on the species of bats within the area to contribute to their knowledge of the species that can be found in Nebraska.
- **Deer Check Station 2018**
 - I volunteered to help check deer at a check-in station at Chadron, NE where we gathered information on the sex and species of the deer and also collected the lymph nodes to be checked for chronic wasting disease.
- **Swift Fox Research 2015**
 - In an effort to collect data on the swift fox, which is endangered in Nebraska, I volunteered to set up trail cameras for the Nebraska Canid Project to aid in their research of where this species can be located in Nebraska.

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Work History

Wall Ranger District, Buffalo Gap National Grassland

710 Main Street
Wall, SD 57790 United States

06/2019 – 12/2019

Hours per week: 40

Wildlife Technician GS-05

Duties, Accomplishments and Related Skills:

- I worked on the Buffalo Gap National Grassland which is comprised of 279,000 acres of multiple use land. Most of my work was conducted in areas with threatened/endangered species specifically the black-footed ferret. Since the black-footed ferret relies heavily on the habitat that the black-tailed prairie dog provides, I focused on conducting surveys on the black-tailed prairie dogs to map out the colonies on the Wall Ranger District and determine the acreage that they cover and the density of each colony. To do this I used a combination of resources including: a Trimble GPS unit, a map and a compass. While collecting the data on the prairie dogs I also made note of any burrowing owls that were found within the colony to monitor the population of burrowing owls in the area.
- In an effort to gain more knowledge about the bubonic plague, I teamed up with the United States Geological Survey crew to trap and collect data on the black-tailed prairie dogs to aid in the research on the efficacy of multiple tools that are intended to be used for plague management. This research will allow for better understanding on how plague works in the environment and how to manage it in order to better support the recovery efforts of the endangered black-footed ferret.
- Installed and created bat boxes to allow for quality habitat for bats traveling/roosting in the area and to help contribute to the target of terrestrial acres enhanced in the Wall and Fall River Ranger Districts in the Buffalo Gap National Grassland. I also monitored the bat boxes to determine whether bats were using the boxes as a place to roost. Along with monitoring the bat boxes, I also set up Wildlife Acoustic Devices to determine the number and species of bats in a given area.
- Wildlife, especially birds, are constantly becoming trapped in stock tanks and cannot find a way out. Installing wildlife escape ladders in stock tanks on both the Wall and Fall River Ranger District was a huge project that I helped out with to prevent wildlife from becoming trapped in livestock water tanks.
- Since the black-footed ferret is an important species on the Buffalo Gap National Grassland, I collaborated with the Prairie Wildlife Research, Badlands National Park and several other volunteers to conduct surveys for the endangered black-footed ferrets at night using spotlights to gather information on the species and determine how many ferrets are present in the area. I also set up trail cameras in hopes of capturing pictures of the black-footed ferret, but the trail cameras also served as a way to see what was going on out in the prairie dog colonies in general. This information is important for the recovery efforts of this species not only in South Dakota, but across the country. However, South Dakota currently has one-third of the wild population in the entire United States making this a crucial project for the Wall Ranger District. This also allows us to promote the importance of working with partners and volunteers to get the work done and receive better results and outcomes.
- I performed dusting inspections throughout prairie dog colonies to make sure that the contractors were accomplishing the task at hand and following the guidelines of the contract.
- Collected seeds from different milkweed species to be planted in various locations on the Buffalo Gap National Grassland which provides habitat for Monarch Butterflies and various other pollinator species. I also helped seed/plant a native seed mix on the Wall Ranger District to help stabilize a new dam and enhance habitat for several pollinator species.
- Due to my knowledge of plant identification, I collaborated with the Range Program at the Wall Ranger District to collect information on the vegetation on the Buffalo Gap National Grassland through photo points and similarity index monitoring. The photo points were established throughout the whole district in riparian and upland areas, and will be used to compare what each area looks like from year to year to help determine if improvements are needed or

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management needs to be changed. The similarity index is used to collect baseline data that will be used to make future grazing adjustments across the district.

- Attended grazing board meetings to facilitate communication between permittees and grazing associations to see what can be done to help them accomplish their goals while improving the condition of the grassland.
- Assisted in the inspection of stock dams after they had been reconstructed to determine whether they met the requirements that were set forth.
- Collected and utilized GPS data at invasive plant sites to survey for patches that required treatment to improve the conditions of the grasslands. This required the mixing of herbicides applicable to the plant and application through either a hand or backpack sprayer.
- Participated in prescribed burns with the Rocky Mountain Research Station to collect information on how native and non-native plants respond to fire on the landscape. This will provide crucial information on how the plants respond to fire, which will allow the Wall Ranger District to gain insight on how to manage the grasslands.
- I helped promote the Agency's safety and learning culture by participating in a Facilitated Learning Analysis and sharing my experience with those that I interact with.
- Attended the Region 2 Safety Council Meeting to share my experience with the Facilitated Learning Analysis team and how they helped promote a safer working environment within the district.
- I participated in a Stress First Aid Train the Trainer session. I am utilizing the skills I learned to identify weak stress indicators in employees and take action to reduce their stress prior to it becoming a medical incident.
- I have built professional working relationships with employees in different resource areas and regions to help ensure I do my part to uplift and empower employees through a respectful, safe working environment.
- Received an Appreciation Award for my ability to remain calm, make effective decisions and professionalism during a medical emergency.

Supervisor: Phillip Dobesh (605-279-2527)

Okay to contact this Supervisor: Yes

Mary Kay

331 N Lake St.

Chadron, NE 69337 United States

10/2016 - Present

Hours per week: 4

Independent Beauty Consultant

Duties, Accomplishments and Related Skills:

- I run my own independent business through a company that aims to provide women with an unlimited opportunity for personal and financial success. Through this company I direct parties, plan activities, attend consultant meetings, and provide information on all the beauty products that I could potentially be selling to my customers.

Supervisor: Brooke Moore (308-362-7061)

Okay to contact this Supervisor: Yes

Midwest Vegetation Management LLC

222 N Maple St.

Chadron, NE 69337 United States

09/2018 - 10/2018

Hours per week: 12

Spray Technician

Duties, Accomplishments and Related Skills:

- I was a part of a three to four person crew to identify and spray noxious plants in road side ditches and out in pastures to remove unwanted plants in an area to allow for native plants to be reestablished.

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- I learned how to operate spraying equipment which included both boom sprayers and hand sprayers. Learning how to operate both the boom sprayers and hand sprayers was necessary due to the areas we were spraying. We were required to navigate through rough terrain via ATV. Hand spraying was beneficial in areas where the weeds were minimal, or where it was impossible to navigate through using an ATV. Boom spraying was beneficial in areas of high infestation to ensure that the area of infestation was covered thoroughly.
- GPS data was collected and utilized in areas where noxious weed populations were present to measure the effectiveness of current treatments.

Supervisor: Jason Rust (720-883-7305)

Okay to contact this Supervisor: Contact me first

Rocky Mountain Research Station/US Forest Service/Colorado State University

8221 South Highway 16

Rapid City, SD 57702 United States

05/2018 - 08/2018

Hours per week: 40

Grassland Field Technician

Duties, Accomplishments and Related Skills:

- I assisted Colorado State University and US Forest Service scientists in setting up and conducting fire table studies at the Rocky Mountain Research Station lab in Rapid City which involved harvesting and collecting data on soil cores from 12 sites on the Buffalo Gap National Grassland and 4 sites on the Thunder Basin National Grassland, prepping fuel loads, and recording data during the fire table trials. This portion of the project is being used to determine how forbs respond to different fire intensities on a small scale, so that it might be replicated on a larger scale later on. Each core has a focal species located in the middle that is beneficial to pollinators and sage grouse. I also operated as a part of a 2 to 3 person crew setting up 20 field sites and recording plant community and plant population data as a part of the 1st year of the study. The aim of this research is to increase our understanding of how grasslands and shrublands respond to fire and the recovery of the plants following a fire. It specifically looks at the regeneration of important forbs utilized by pollinators and sage-grouse, as well as, how pre-fire community composition affects post-fire regeneration along a gradient of invasive annual brome abundance.
- The cores were 12 inches in diameter and 8 inches deep with a focal species in the center. To remove the cores from the ground we used a metal cylinder, a metal plate that would go on top of the cylinder, and a sledge hammer to pound the cylinder into the ground. Collecting data on the soil cores included: gathering measurements on the focal species, species richness, percent cover, and a photo of the core pre-fire and post-fire.
- To burn the cores we would lay out a fire table that was 8 feet long and 3 feet wide with a circle cut out to place the core in. The fire table was angled to allow the wind to run up the table. Fuel loads were added to change the intensity of the fire.
- Setting up the field sites included: laying out 6, 2 meter by 4 meter plots at each site and assigning each plot a different treatment which would determine what time of the year the plots would be burned or if they were drought plots. Pictures were taken of each plot and at a location where every plot could be seen in one picture. GPS coordinates were also taken at each corner of every plot.
- While collecting information on the burn plots we would determine percent cover for each species, count stem density, and collect biomass through the pin-point method.
- I assisted in a practice run with the burn boxes where we burned 6 plots at one site to help give insight in how they wanted to set things up for the real burns that would occur in the fall of 2018.
- Assisted in entering the data that was collected into excel and documenting how we measured the different plants that way it can be replicated in the following years of the project.
- Collected 50 grass species and recorded the location and date of which they were collected. I then placed the specimens into a plant press to allow them to dry out before mounting them. After I identified the species I mounted them to mounting paper and submitted them to the High Plains Herbarium at Chadron State College.

Supervisor: Jacqueline Ott (605-716-2210)

Okay to contact this Supervisor: Yes

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Chadron State College

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Chadron, NE 69337 United States

01/2017 - 05/2018

Hours per week: 12

Residence Hall Desk Worker

Duties, Accomplishments and Related Skills:

- I worked at the front desk of the residence halls for Chadron State College to answer phone calls, check student ID's to create a safe environment for students to live in, check-in visitors and welcome them to the college, and accommodate the students and guests in any way possible.

Supervisor: Mariah Nelson (308-765-5936)

Okay to contact this Supervisor: Yes

Crawford Livestock Market Inc.

Beach St
Crawford, NE 69339 United States

04/2016 - 04/2018

Hours per week: 4

Sale Barn Assistant

Duties, Accomplishments and Related Skills:

- While working at the Crawford Livestock Market Inc. I helped feed and water the livestock periodically to keep them healthy and reduce the stress that they are experiencing from being hauled around. During the sale I direct cattle into their buyer's pen and sort off the cattle that need to be moved around. This requires counting the cattle as they go into the pen to make sure the right number of cattle are being put into the pens.

Supervisor: Rich Robertson (307-340-1165)

Okay to contact this Supervisor: Contact me first

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References

Brian Dickerson
Wildlife Biologist
(605-716-2197)

Jacqueline Ott
Research Ecologist
(605-716-2210)

Jack Isaacs
Nebraska National Forests and Grasslands Supervisor
(308-432-0304)

Character References

Todd Legler
Shoshone Forest Risk Manger
(307-272-4175)

Teresa Gardner
(308-529-2499)