## University of South Dakota

## **USD RED**

Sustainable RIVER

Sustainability & Environment

2019

## A Changed River's Effects on Native Turtle Distribution

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These ecosystem elements are meant to represent habitat suitable for false map turtles that still remain following modification of the Missouri River. The ecosystem elements will be analyzed and compared with where the highest concentrations of false map turtles have been spotted since 2011. The project investigates if deadwood abundance or one of the other ecosystem elements, could be the main factor in creating habitat for false map turtles. Due to the fact that the amount of habitat remaining after modification is a significant predictor of species health, this project will help to make predictions about how much remaining habitat is available despite modification. Furthermore, this project could inform the state how to better manage for false map turtles.

Hypothesis: There is an anticipated correlation between the presence of deadwood and the density of false map turtles. I predict that there will be higher densities of false map turtles in areas where there are higher levels of deadwood, therefore creating higher quality habitat.

Favorite Memory: Learning about and working closely with turtles all summer under the hot sun and camping in Lake Oahe collecting setting turtle traps and eating camp food!