Goal: Create a Shiny app that has an html user interface that allows users to

1. Upload a .csv file of their data
2. Analyze their data
3. View and interpret results
4. View the data results of other reserves

Users will be able to click a button on the html interface that says, “Upload data.” They will then choose an analysis from a drop down menu and hit “Start analysis.” The user will then see a graph, table, and a qualitative description of their results. There will be a button to click on for how to interpret their results/ways to improve the management of their reserve.

Steps to create tool:

-Install shiny package in R.

-Learn about how to create a Shiny app by following online tutorials.

-Use R to create the Shiny app (program models to run analyses, results text, user interface, etc.)

If the user would like to view the results of others, then we will have to create a database.

Steps to create database:

-Learn MySQL or MongoDB (both are free, popular, and easy to use).

-Create the database using either MySQL or MongoDB.

-Program in R to enable the Shiny app to access data from the database, run analyses on those data, and display them in the Shiny app for the user.