**EDIT ecosite data**

**Prerequisite:**

If you are new to R, R and R Studio can be downloaded from the Software Center. Please follow these [instructions](http://ncss-tech.github.io/stats_for_soil_survey/chapters/0_pre-class-assignment/pre-class-assignment.html) for setting up R and downloading packages. You do not need to do Step 6 –Connect Local NASIS, but I recommend doing so to allow R to interact with NASIS for other purposes. It is a very efficient way of accessing NASIS data.

1. **Accessing files**
2. Go to <https://github.com/natearoe/EDIT_ecosite_data>
3. Click the green ‘Code’ button > Download ZIP
4. Find the downloaded zip file, copy, navigate/create a folder where you want all ‘EDIT ecosite data’ workflow files to be stored, paste
5. Right click zip file now stored in new location > Extract all
6. **Determine map units in MLRA of interest:**

- For MLRA, use Shiny App - <https://nroe.shinyapps.io/MapunitsInMLRA/>. This methodology uses SSURGO data, so if you are using STATSGO data in places where SSURGO isn’t available (such as Alaska and other NOTCOM areas), you will need to determine the map units in your MLRA with a different approach. You can follow the general methodology [here](https://natearoe.github.io/ESS_FAQs/mapunits.html#mapunitsinSSA) to find map units in an MLRA that uses STATSGO data. Ultimately, you need to get a comma separated list of map units from either of the options provided.  
- For Soil Survey Area, follow the directions [here](https://natearoe.github.io/ESS_FAQs/mapunits.html#mapunitsinSSA).

1. **Produce NASIS report using map units from Step 1.**
2. NASIS > Reports > MLRA02\_Davis > EXPORT – Ecological site concept data by MUKEY list v4 (originally created by Steve Campbell, modified by Andrew Brown and Nathan Roe)
3. Right click > Run against National Database > paste the comma separated list of map units created from Step 2. > Select “True” for only major components > Run
4. From the HTML created > Ctrl + a > Ctrl c
5. Open Excel > Ctrl + v
6. File > Save as > navigate to the folder with other ‘EDIT\_ecosite\_data’ files > drop down ‘Save as type’ > CSV (Comma delimited) > click on “ecosite\_report” > Save > Replace
7. **Opening RStudio project**a. Navigate to the folder with ‘EDIT\_ecosite\_data’ files

b. Open EDIT\_ecosite\_data (file type R Project)

c. In the bottom right corner panel, open the files tab  
d. From now on, when opening files, open them from this files tab by clicking on them

1. **Determine which ecosites are in MLRA**
2. Open active\_ecosites.Rmd
3. Change the MLRAs defined on line 25 to your MLRA(s) of interest
4. Click ‘Knit’ on the toolbar above
5. Select and copy the list of ecosites as instructed in the head of the active\_ecosites.Rmd file.
6. Perform QC on this list of ecosites. Sometimes, you might find that a component was correlated to two ecosites. This could result in something like, 'R018XI163CA & R018XD076CA'. These should be removed. Any other ecosites that are clearly erroneous should be removed as well.
7. **Create NASIS report**
8. Open ‘for\_loop\_file.R”
9. Replace the list of ecosites with your list of ecosites created in Step 5. Make sure that you remove any erroneous ecosites. Make sure that the list follows the format of c(‘F018XC201CA’, ‘F018XI205CA’, ‘R018XI163CA’).
10. Save file
11. Ctrl + a then click Run in the top right corner.
12. Html reports for all your ecosites will be created in your folder
13. If you want to create a report for a single ecosite, reduce the list from step b. to your single ecosite of interest.