**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, unless you want to. If you take the NRCS Statistics for Soil Survey course, you will need to do Step 6, as this document is the pre-class assignment for that course. Step 6 will create a connection between NASIS and R and creates a very useful way to work with 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 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:**

This process can be completed using the mapunits\_in\_MLRA.Rmd file. This is a very simple process that leverages work done by Dylan Beaudette to define relationships between mukeys and MLRAs.

1. Open mapunits\_in\_MLRA.Rmd from the new folder you created in Step 1.
2. Make the necessary adjustments to the defined MLRA as explained by the script.
3. Click ‘Knit’ on the toolbar
4. Consider saving the html output for easy access to a list of map units within your MLRA.
5. **Produce NASIS report using map units from Step 1.**
6. NASIS > Reports > MLRA01\_Portland > EXPORT – Ecological site concept data by MUKEY list v2 (report created by Steve Campbell, workflow shown to me by Jamin Johanson)
7. Right click > Run against National Database > paste the comma separated list of map units created from Step 1. > Select “True” for only major components > Run
8. From the HTML created > Ctrl + a > Ctrl c
9. Open Excel > Ctrl + v
10. File > navigate to the folder with other ‘EDIT ecosite data’ files > name “ecosite\_report” > drop down ‘Save as type’ > CSV UTF-8 (Comma delimited) > Save.
11. **Determine which ecosites are in MLRA**
12. Open active\_ecosites.Rmd in R Studio
13. Change the file path to your NASIS report from Step 2 and change value to your MLRA
14. Click ‘Knit’ on the toolbar
15. Select and copy the list of ecosites as instructed in the active\_ecosites.Rmd file.
16. 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.
17. **Create report for single ecosite**

This step creates a report for a single ecosite. If you want to produce a report for multiple ecosites or all the ecosites in your MLRA, go to Step 4.

1. Open ‘NASIS\_data\_to\_EDIT\_single.Rmd’
2. Follow the instructions in that file to change the file path to your NASIS report created in Step 2.
3. Change the ecosite id code as described in ‘NASIS\_data\_to\_EDIT\_single.Rmd’
4. Click ‘Knit’ from the top toolbar
5. Click ‘Open in Browser’ > right click > Save as > save wherever desired.
6. **Create NASIS report for multiple ecosites**

If you want to produce a report for multiple ecosites or all the ecosites in your MLRA, you can do that in this step. It will create an HTML file for all your ecosites and will automatically save them with the ecosite id code (i.e. R018XI163CA.html)

1. Open ‘NASIS\_data\_to\_EDIT\_multiple.Rmd’
2. Follow the instructions in that file to change the file path to your NASIS report created in Step 2.
3. Save file
4. Open ‘for\_loop\_file.R’
5. Replace the list of ecosites with your list of ecosites created in Step 3. Make sure that you remove any erroneous ecosites. Make sure that the list follows the format of c(‘F018XC201CA’, ‘F018XI205CA’, ‘R018XI163CA’).
6. Ctrl + a then click Run in the top right corner.
7. Html reports for all your ecosites will be in your folder