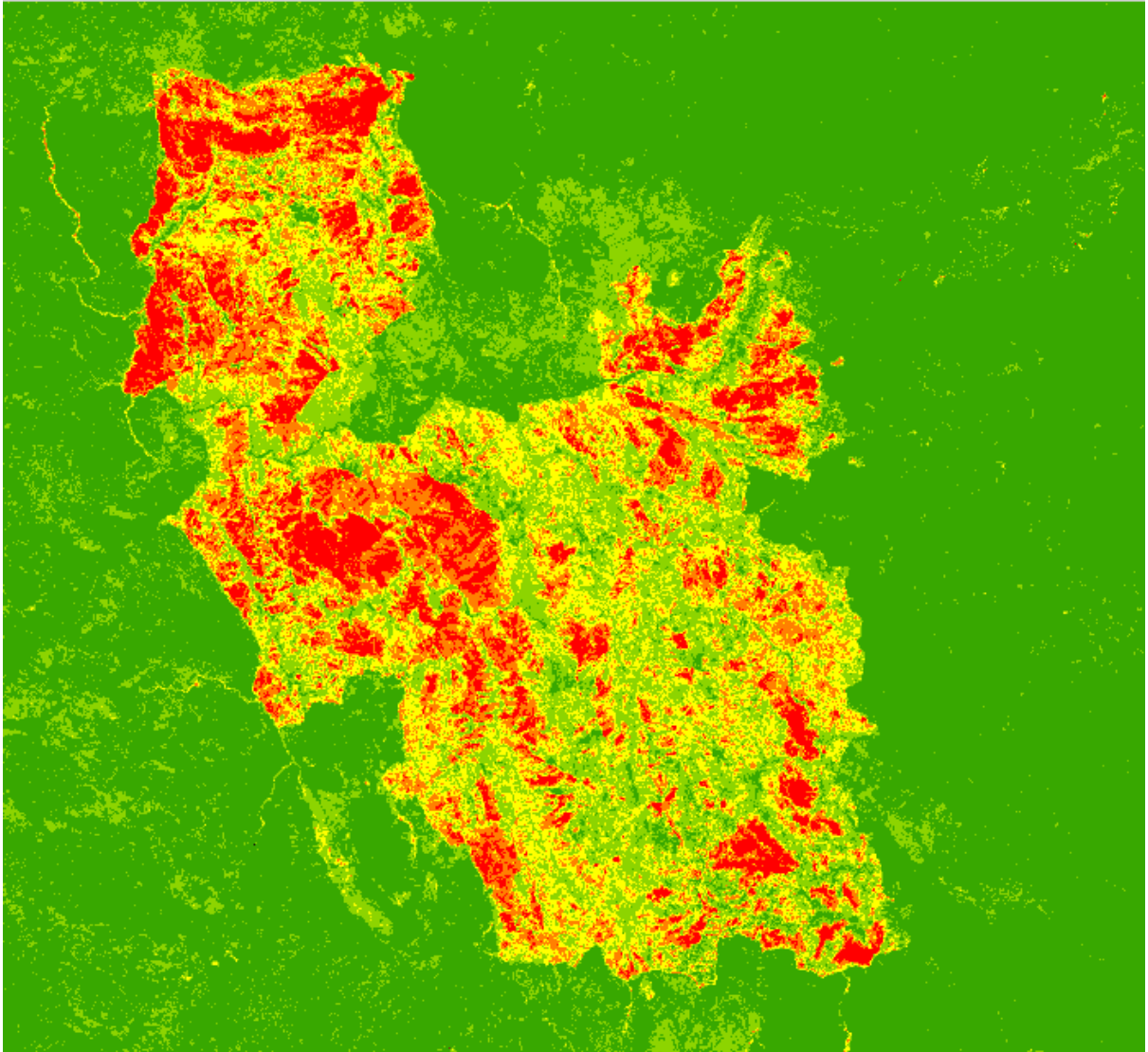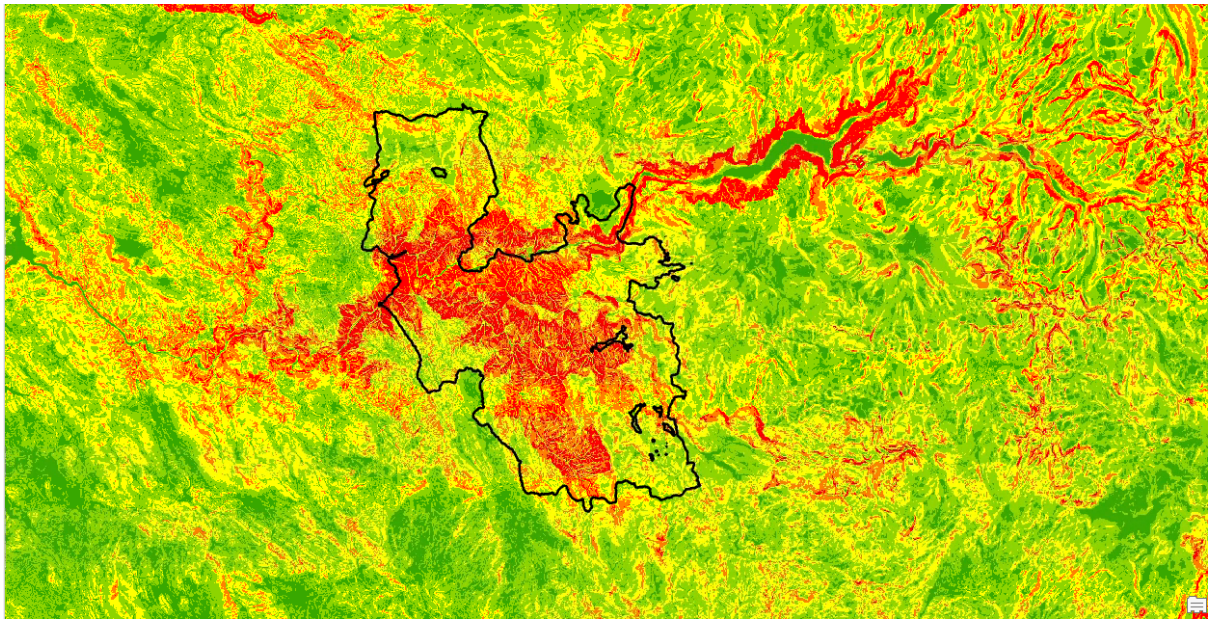# Laboratory 4 (Case Study 4)

Name: Jason Gates
Date: 06/16/2022
Engr 180 Summer 2022

Take a screenshot [you do NOT have to make a full map for this portion] of the new Burn Severity raster output for submission.
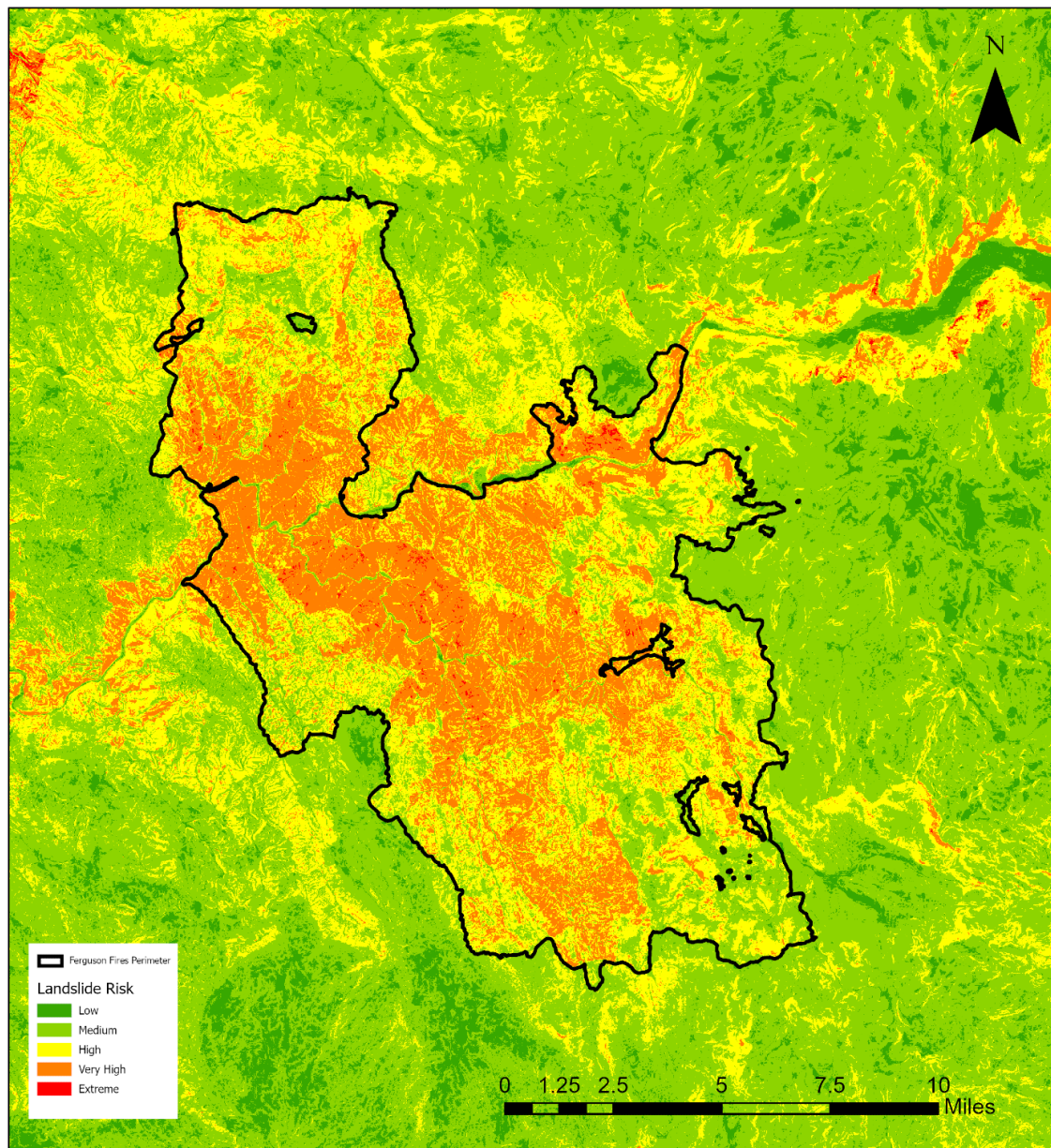

Take a screenshot [you do NOT have to make a full map for this portion] of the new Slope Index raster output for submission.

Answer: In a 3-4 sentences, what is NLCD?? Google this really quick for reference. What is the age of the most recent dataset (what year is the data from)? Why/why wouldn't this be an issue if you need the imagery for a project?

- NLCD is the National Land Cover Database and provides spatial updates of United States land cover and associated changes. The database also provides the ability to understand current and historical land cover which can be used to see change in land covers. Additionally, it helps with making trends about the land and helps monitor how the land changes. The age of the most recent dataset is 3 years old and the data was from 2019. This could possibly be an issue of imagery for a project since terrain and map data in the United States constantly changes. Since it's 3 years old, it is a less accurate and less precise representation of how terrain currently looks. If they made one this year, it would be the most accurate and would be very precise. Additionally, an updated dataset would also use the current data on terrain we have to help make trend assessments about how terrain would be in a few years. Updating it yearly can help see the trends and changes of terrain to compare or make future predictions and would be more accurate than using a 3 year old dataset. If you need a visualisation and rough structure of the terrain in the United States, but don't need the most accurate representation of how it looks currently, then using the 2019 dataset for imagery can be useful.

Submit a PRODUCTION QUALITY MAP focused on the Ferguson Fire perimeter with all appropriate key elements included. Include a visual of your Landslide Risk Function. The text must be clearly visible. Example above. Arrange your map layout however you prefer. It does not have to match this.

Landslide Risk

Ferguson Fires Perimeter

- Low
- Medium
- High
- Very High
- Extreme

0 1.25 2.5 5 7.5 10
Miles

Ferguson Fire Landslide Risk Overview

Made by Jason Gates (06/16/2022)

References

Multi-Resolution Land Characteristics Consortium. (n.d.). *Land Cover*. Retrieved

June 21, 2022, from

https://www.mrlc.gov/data/type/land-cover#:~:text=The%20National%20Land%20Co

ver%20Database,land%20cover%20and%20associated%20changes.