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GEOG 521 Fall 2023

Part A: Snail Habitat Analysis

Deliverable 1

Is this grid an integer or floating point grid? And what does the count field indicate?

- The new grid is an integer grid. The count field represents all cells of the converted feature classes.

Deliverable 2

What is the total area of the Madison Limestone (unit 7) in the new grid? Briefly explain how you obtained your answer.

- 56951 M2

I got the above answer by first selecting only Madison Limestone by the count attribute, going into the symbology of the **Limegrid** raster, changing the **Primary symbology** to **classify**, normalizing the data by **count**, going to the **more** option and there was where I found the total count.

Deliverable 3

I used **Raster Calculator** with the inputs as:

elevation >= 1200 & <=1600, Conifers == 1, Limegrid == 1.

Because Conifers and Limegrid are both Boolean values, any potential snail habitat should theoretically be within the elevation range where each of these conditions is true.

Deliverable 4

