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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.

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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

