Soil Data Summary

Field Ecology

Over the past several weeks, you have researched CV's soils, collected data directly, and learned general information about soil science. Today, you will refresh your memory by briefly summarizing the information you've found so far. As much as possible, you should answer the questions below using your own data and information from your notes. If you are missing something, your first step should be to look at the class website to see if the information is available there. Your second stop should be to use someone else's information (make sure that you indicate who shared with you so it is clear who your source was).

Section 1: *Soil Texture (include <u>names</u> and <u>percentages</u> where you have them)*

1. According to the research we did using the Benton County Soil Survey website, what are the different textures of CV's soils (there are a few)?

2. According the soil texture activity you did by hand, what is the texture of CV's soil?

3. According to the graduated cylinder soil settling activity, what is the texture of CV's soil?

Section 2: *Soil Moisture*

4. According to your calculations, what was the soil water content at the time that you collected soil from CV's campus?

5. According to your calculations, what is the soil water holding capacity of CV's soils?

Section 3: *Soil Nutrients*

6. During the soil nutrient activity (where you poured orange and blue liquids through dried soils), what did you discover about the soil on CV's campus?

Section 4: *Soil Macro-organisms and other Observations*

7. What types of soil organisms did you see when you did the soil dissection activity?

8. What other observations did you make when you looked through the first soil you collected?

Section 5: *General Information*

9. What is a soil texture triangle, what information does it tell you, and how is it used?

10. What is the overall electrical charge of soil? How do soils that are high in clay differ from other soils in terms of their electrical charge? How does the electrical charge of soil influence how soil interacts with nutrients?