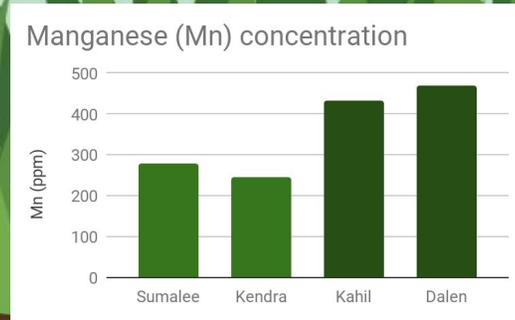
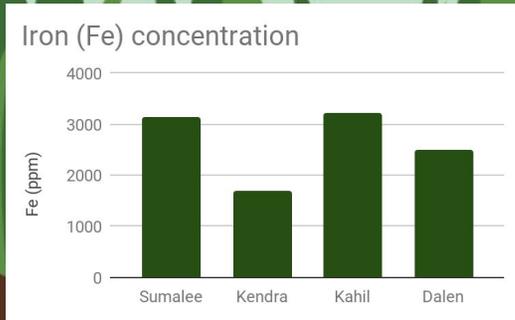


Digging Deeper... the Science of Soil!



Good for plant growth: Iron & Manganese



Soil contains many metal elements that can impact plant growth. Some elements are nutrients and good to have in the soil, so having more of these elements makes the soil healthier. Some elements are toxic and bad to have in the soil, so having less of these elements makes the soil healthier.

1 ppm = 1 part per 1 million parts
 These units describe very dilute concentrations!



Depleted
 When depleted, the plant has very little of the nutrient and is unable to properly grow.

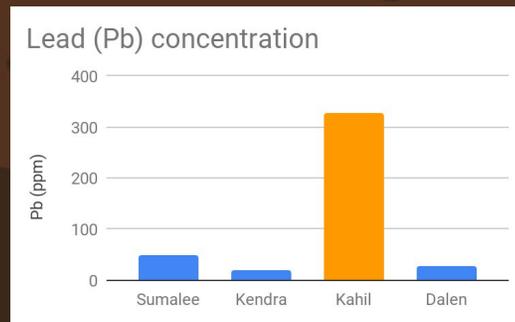
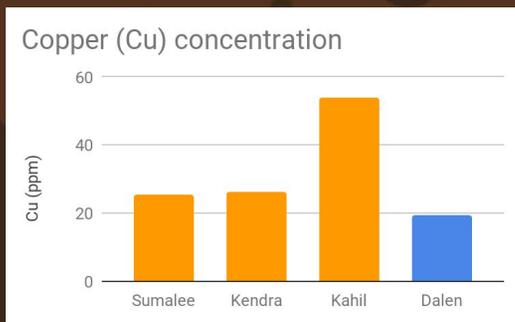
Deficient
 When deficient, the plant has a small amount of the nutrient but would grow better with more.

Adequate
 When adequate, the soil has just enough nutrients for healthy plant growth.

Sufficient
 When sufficient, the soil has the perfect amount of nutrients for healthy plant growth.

Surplus
 When surplus, the soil has too many nutrients which can make the soil environment toxic and can decrease plant growth.

Bad for plant growth: Copper & Lead



Acceptable
 When acceptable, the plant has a low level of this element that won't harm plant health too much.

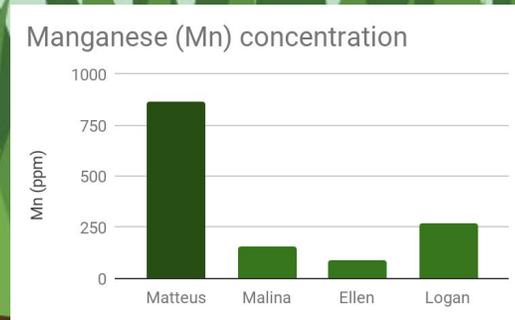
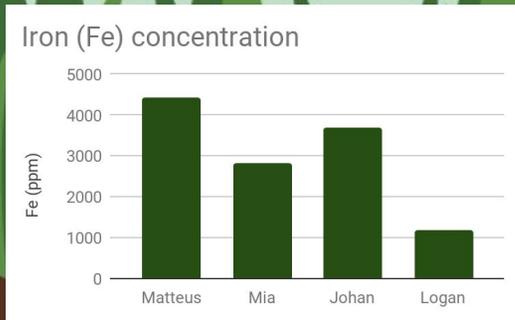
Toxic
 When toxic, the plant has too much of this element and plant health is harmed.

Simply groundbreaking!

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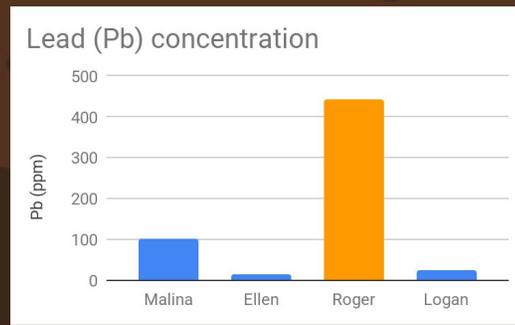
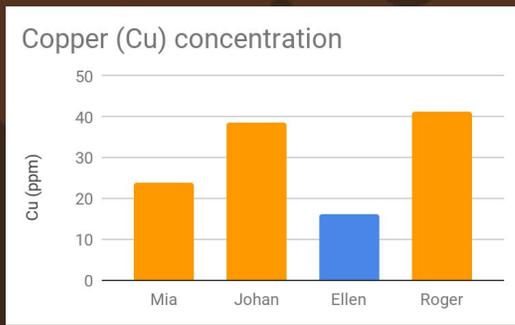
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Soil Analysis with Chemistry Students from Trinity College

Thank you for working on this project with us! We hope you enjoyed learning more about your soil samples as much as we did.

If you want to know more about your soil, you can submit a sample to the University of Connecticut Soil Nutrient Analysis Laboratory (UCSNAL).

UCSNAL will do Standard Nutrient Analysis for \$12. The results will tell you about available calcium, magnesium, phosphorus, potassium, sulfur, iron, manganese, copper, zinc, aluminum and boron in your soil. The samples are also screened for estimated total lead. Limestone and fertilizer recommendations are made based on test results.

Visit www.soiltest.uconn.edu for more information.