



# Soil Health Assessment Center

University of Missouri

## Soil Health Assessment



### Basic Soil Health Package

Potentially Mineralizable Nitrogen  
Active Carbon  
Wet Aggregate Stability  
pH (salt and water)

**\$36**

- Reduce nitrogen expenditures —take credit for nitrogen released by soil during growing season.
- Estimate activity of soil organic matter and soil microorganisms
- Evaluate soil structure and water relationships
- Optimize pH and crop suitability; maximize nutrient availability.

### Expanded Soil Health Package

Potentially Mineralizable Nitrogen  
Total Nitrogen  
Active Carbon  
Total Organic Carbon  
Water Stable Aggregates  
pH (salt and water)  
Effective Cation Exchange Capacity  
Exchangeable Cations  
Plant Available Phosphorus

**\$80**

- Gain all the benefits of the Basic Package
- Add total Nitrogen and Carbon to the analyses to put perspective on PMN and active carbon
- Measure ECEC, capacity of soil to hold cations (calcium, magnesium, potassium, sodium, hydrogen and aluminum) at the current soil pH. Most CEC measurements are made with pH adjusted to 7. ECEC estimates more closely current soil conditions allowing future improvements to be measured.
- Measure effective base saturation, the proportion of ECEC held by the basic cations of calcium, magnesium, potassium and sodium. Hydrogen and aluminum are acidic cations.
- Measure phosphorus available for plant uptake

### Package Enhancements

Phospholipid Fatty Acids (PLFA) **\$50**  
Bulk Density **\$ 5**  
Neutralizable Acidity **\$11**  
Particle Size **\$36**

**These prices apply when analyses are added to Basic or Enhanced Soil Health Pack-**

- Add any of these analyses to either of the above packages
- Analyze Phospholipid Fatty Acid content of your soil to estimate the biomass and groups of microbes present in the soil.
- Measure soil bulk density to determine if compaction is limiting crop root growth, water infiltration, and water holding capacity.
- Classify your soil by texture.

Prices subject to change.