



# Soil Health Assessment Center

University of Missouri

Procedure	Charge per Sample	Comments
Sample prep	\$0 to \$10.00	Depends on what kind of prep work is required.
Bulk density	\$5 - \$50.00	Depends on what kind of bulk density is required.
pH	\$5.50	1:1 Water plus 1:2 .01M CaCl <sub>2</sub>
pH	\$16.00	Saturated paste
% Total nitrogen	\$11.00	Combustion analyzer
% Total sulfur	\$12.00	Combustion analyzer
Qualitative Carbonates	\$0.50	HCl acid test
% Total carbon	\$6.00	Combustion analyzer
% Organic carbon	\$6.00	Combustion analyzer
% Inorganic carbon+TC +TOC	\$9.00	Total carbon minus Organic carbon
% Organic matter	\$6.00	Loss on Ignition
Exchangeable cations	\$12.00	Ca, Mg, Na, K from buffered NH <sub>4</sub> OAc extract by flame AA
CEC	\$12.00	NH <sub>4</sub> OAc extract
Exchang. cations + CEC	\$22.00	NH <sub>4</sub> OAc extract
Exchangeable cations	\$12.00	Same as above, but from unbuffered NH <sub>4</sub> Cl extract
CEC	\$12.00	NH <sub>4</sub> Cl extract
Exchang. cations + CEC	\$22.00	NH <sub>4</sub> Cl extract
Forest Service Elements	\$42.00	Unbuffered NH <sub>4</sub> Cl extract for 13 elements by ICP + ECEC
Bray1 P	\$6.00	
Olsen P	\$6.00	
Al or Mn	\$10.00	KCl extract
Neutralizable Acidity	\$11.00	BaCl <sub>2</sub> extract
ICP-OES cations	\$20 - \$50.00	Depends on extraction technique and other factors
ElectroConductivity	\$6.00	1:1 soil water slurry
ElectroConductivity	\$24.00	From saturated paste
Filter Candling	\$10.00	Prior to Particle Size Determination
Particle Size Determination	\$36.00	<2mm size fraction broken down to 8 size categories
Carbonate Clay Percentage	\$6.00	Add on after Particle Size Determination
Fine Clay Percentage	\$10.00	By centrifuge after Particle Size Determination
Simplified PSD	\$18.00	only total % sand, silt, and clay reported for < 2mm
Sodium Absorption Ratio	\$36.00	From saturated paste
EGME Surface Area	\$60.00	
ASTM C117	\$75.00	Materials finer than 75 microns by washing
ASTM C136	\$50.00	Sieve analysis of fine and coarse aggregates
Mehlich3	\$24.00	Multielement ICP analysis of extract
PLFA	\$50.00	Gas Chromatograph
Mineralizable Nitrogen	\$12.00	Incubation method
Wet Aggregate Stability	\$10.00	Sieve dipping method
Active Carbon	\$10.00	Weil method
Atterberg Limits and PI	\$50.00	ASTM D4318

The lab has the capability to run many other procedures on an "as needed" basis.