

Research Sample Information Form - EXTERNAL WEIGHED SOIL Samples



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External SOIL Research - WEIGHED

Researcher Name:	Billing Information (Required)
Organization/Department:	Name:
Phone:	Billing Address:
Email:	City/St/Zip:
Study Name:	Date Submitted:
Return Samples: YES* or NO (circle one)	Date Results Needed:

*Samples **WILL BE DISCARDED** if they have not been picked up within 6 months of receiving results

# of samples	Analysis	Elements/Nutrients	Description or Procedure	External Price
	Soil preparation		Drying, grinding, sieving	\$1.75
	Soil pH and Buffer pH		1:1 soil-water	\$3.25
	Phosphorus	Soil-P (recommend)	Mehlich-3 extraction	\$2.75
	Phosphorus	Soil-P	Bray-1 extraction	\$2.75
	Phosphorus	Soil-P	Olsen (bicarbonate) extraction	\$2.75
	Exchangeable Cations (circle one):	K, Ca, Mg, or Na	Ammonium acetate extraction	\$4.00
	Exchangeable Cations (all)	K, Ca, Mg, and Na	Ammonium acetate extraction	\$7.50
	Micronutrient metals (circle one):	Fe, Zn, Cu, or Mn	DTPA extraction	\$4.50
	Micronutrient metals (all)	Fe, Zn, Cu, and Mn	DTPA extraction	\$7.50
	Inorganic-N (circle one):	NO ₃ or NH ₄	KCl extraction	\$3.25
	Inorganic-N (all)	NO ₃ and NH ₄	KCl extraction	\$4.25
	Electrical Conductivity	EC	Saturated paste extraction	\$9.25
	Soil texture	Sand, Silt, Clay (%)	Hydrometer	\$16.50
	Cation Exchange Capacity	CEC	Summation	\$10.75
	Cation Exchange Capacity	CEC	Displacement	\$13.75
	Chloride	Cl	Ca(NO ₃) ₂ extraction	\$5.00
	SO ₄ -S	SO ₄ -S	Ca(H ₂ PO ₄) ₂ extraction	\$4.75
	Total N and Total C	TN, TC	Dry combustion	\$8.25
	Total N and Total Organic-C	TN, TOC	Acid treatment + Dry combustion	\$13.75
	Total P	TP	Salicylic-sulfuric acid digestion	\$10.50
	Total N and Total P	TN, TP	Salicylic-sulfuric acid digestion	\$12.50
	Organic Matter	OM	Loss on ignition (recommended)	\$4.00
	Organic Matter	OM	Modified Walkley-Black	\$7.00
	Soil Carbonate	CaCO ₃ equivalent	Manometer	\$8.75
	Heavy Metal Assay (circle one):	Pb, As, Cd, or Cr	Nitric acid digestion	\$13.50
	Heavy Metal Assay (all):	Pb, As, Cd, and Cr	Nitric acid digestion	\$19.50
	Exchangeable Aluminum	Al	KCl extraction	\$7.75
	Soil sterilization fee		APHIS compliance	\$0.50

Orders with 20+ samples will receive a 10% volume discount. A \$0.25 discount is available for pre-extracted samples.

* Minimum masses are listed for each test and are provided to give a rough idea of how much sample is required.

* If you have a limited amount of sample material please contact the lab prior to sending samples.