

Soil Analysis	Method	Work Days
<u>Basic Fertility</u>		
BF1: NO ₃ -N, PO ₄ -P, K and Zn		4
BF2: NO ₃ -N, PO ₄ -P, K and pH _s		4
<u>Fertility Assay</u>		
FA1: SP, pH _s , EC _e , Ca, Mg, Na, ESP, B, GR or LR, NO ₃ -N, PO ₄ -P, K, Zn		4
FA2: FA1 plus extractable Mn, Fe, Cu and extractable Ca, Mg, Na expressed as meq/100 g		4
FA3: FA2 plus estimated CEC, cations expressed as percentage of estimated CEC		5
FA4: FA2 plus CEC, estimated exchangeable acidity and cations expressed as percentage of CEC		7
MA1: Mechanical Analysis: Sand, Silt, Clay, Textural Class	S14.10	4
MA2: Mechanical Analysis plus Organic Matter, Moisture & CEC		6
<u>Sodium & Salinity Assay</u>		
SP, pH _s , EC _e , Ca, Mg, Na, ESP, B, GR or LR		4
<u>Heavy Metals</u>		
As, Cd, Cr, Pb, Mo, Ni, Zn, Se, Hg		15
<u>Individual Soil Analysis</u>		
Aluminum (Al), extractable	SSSA, pg 526	4
Arsenic (As), TTLC		10
Agricultural Use	SSSA, pg 814 mod	4
Bicarbonate (HCO ₃), soluble	S1.30	4
Boron (B), soluble	S1.50	4
Bulk Density (BD)	Hndbk 60.38	4
Calcium (Ca), soluble	S1.60	4
Calcium (Ca), extractable	S5.10	4
Carbon: Total	S9.30	4
Organic	calc	10
Cation Exchange Capacity (CEC)	Ba sat & CaSO ₄	7
Chloride (Cl), soluble	S1.40	4
Copper (Cu), extractable	S6.10	4
Electrical Conductivity (EC _e), soluble	S1.20	4
Field Capacity (FC), 1/3 bar	Hndbk 60.30	7
Gypsum Requirement (GR)	Hndbk 60.22(d)	4
Iron (Fe), extractable	S6.10	4
Lime: Content, quantitative (CaCO ₃ equivalence)		7
Presence, qualitative (LP)		4
Requirement (LR) (buffer pH)		4
Magnesium (Mg), soluble		4
extractable		4
Manganese (Mn), extractable	S6.10	4

Soil Analysis (continued)	Method	Work Days
Moisture	Hndbk 60.26	4
Molybdenum (Mo), extractable	S6.10	4
Nematode Identification		6
Nitrogen: Ammonia (NH ₄ -N)	S3.50	4
Kjeldahl (TKN)		4
Nitrate (NO ₃ -N)		6
Organic (Org-N)	calc	4
Total (Combustion)	S9.30	4
Organic Matter: (LOI)	S9.20	7
Permanent Wilting Point (PWP), 15 bar	Hndbk 60.31	7
pH _s , soluble	S1.10	7
Phosphate (PO ₄ -P), extractable	S4.10	7
Phylloxera		6
Potassium (K), soluble	S1.60	4
extractable	S5.10	4
acid extractable	SSSA, pg 561 mod	5
Saturation Percentage (SP)	S1.00	4
Selenium (Se), Agricultural Use	S6.10	4
Sodium (Na), soluble	S1.60	4
extractable	S5.10	4
Sodium Adsorption Ratio (SAR)	S1.60	4
Sulfate (SO ₄ -S), extractable	S1.70	4
Verticillium Wilt		14
Zinc (Zn), extractable	S6.10	4
<u>Soil Monitoring</u>		
SM1: Moisture; Soluble: ECe, Cl, Ca, Mg and Na		10
SM2: Moisture; SAR, TN, NO ₃ -N, NH ₄ -N, PO ₄ -P, TOC, Inorganic Carbon		10
SM3: Extractable Zn, Mn, Fe		10