

SOIL ANALYSIS

	<i>Method</i>	<i>Work Days</i>
<i>Basic Fertility:</i>		
BF1: NO ₃ -N, PO ₄ -P, K, Zn		4
BF2: NO ₃ -N, PO ₄ -P, K, pH _s		4
BF3: BF1 plus extractable Ca, Mg, Na		4
<i>Fertility Assay:</i>		
FA1: Fertility Assay 1		5
SP, pH _s , EC _e , Ca, Mg, Na, ESP, B, GR or LR (buffer pH), NO ₃ -N, PO ₄ -P, K, Zn		
FA2: Fertility Assay 2		5
FA1, DTPA extractable Mn, Fe, Cu and ammonium acetate extractable Ca, Mg, Na expressed as meq/100 g		
FA3: Fertility Assay 3		5
FA2, <i>estimated</i> CEC, extractable Ca, Mg, K and Na expressed as percentage of <i>estimated</i> CEC		
FA3: plus OM		5
FA4: Fertility Assay 4		7
FA2, measured CEC, estimated exchangeable acidity and cations expressed as percentage of measured CEC		
MA1: Mechanical Analysis: Sand, Silt, Clay, Textural Class	S14.10	6
MA2: MA1 plus Organic Matter, Moisture, CEC		8
<i>Sodium & Salinity Assay:</i> SP, pH _s , EC _e , Ca, Mg, Na, ESP, B, GR or LR		5
<i>Heavy Metals</i> (40CFR Part 503) : As, Cd, Cr, Pb, Mo, Ni, Se, Zn, Hg		15
<i>Dairy Soil</i>		
DS1: NO ₃ -N (0-1', 1-2')	S3.10	5
DS2: FA1 (0-1'); NO ₃ -N (1-2')		8
DS3: FA1 (0-1'); NO ₃ -N (1-2', 2-3')		8
<i>Individual Analysis:</i>		
Aluminum (Al) (KCl extractable)	SSSA, p 526	5
Bicarbonate (HCO ₃), soluble	S1.30	5
Boron (B), soluble	S1.50	5
Bulk Density	Hndbk 60.38	3
Calcium (Ca), soluble	S1.60	5
ammonium acetate	S5.10	5
Carbon: Total	S9.30	5
Organic	S9.30, S13.10 mod	10
Organic (LOI, calc)	S9.20	7
Cation Exchange Capacity	S10.20	7
Chloride (Cl), soluble	S1.40	5
Copper (Cu), extractable	S6.10	5
Electrical Conductivity (EC _e)	S1.20	5
Field Capacity (FC), 1/3 bar	Hndbk 60.30	7
Gypsum Requirement (GR)	Hndbk 60.22(d)	5
Iron (Fe), extractable	S6.10	4
Lime: Content, quantitative	S13.10 mod	7
Presence (LP), qualitative	Hndbk 60-23a	4
Requirement (LR) Buffer pH	S2.50	4
Magnesium (Mg), soluble	S1.60	4
ammonium acetate	S5.10	5
Manganese (Mn), extractable	S6.10	4



Moisture, (%)	Hndbk 60-26	3	
Molybdenum (Mo), extractable	S6.10	5	
Nematode Identification		6	
Nitrogen:	Ammonia (NH ₄ -N)	S3.50	5
Kjeldahl (TKN)	S8.10	7	
Nitrate (NO ₃ -N)	S3.10	5	
Organic (Org-N) (Calc of TKN & NH ₄ -N)		7	
or Org-N (Calc of TN, combustion; NO ₃ -N, NH ₄ -N)		7	
Total (Combustion)	S9.30	5	
Organic Matter (LOI)	S9.20	7	
Permanent Wilting Point (PWP), 15 bar	Hndbk 60.31	7	
pH _s value	S1.10	7	
Phosphorus: Total	B4.20	7	
Phosphate (PO ₄ -P), extractable	S4.10	5	
Phylloxera		6	
Potassium (K),	soluble	S1.60	
5			
ammonium acetate	S5.10	5	
(Acid K), acid extractable	SSSA, p 561 mod	7	
Total	B4.20	7	
Saturation Percentage (SP)	S1.00	4	
Sodium (Na), soluble	S1.60	5	
ammonium acetate	S5.10	5	
Sodium Adsorption Ratio (SAR)	S1.60	5	
Sulfate (SO ₄ -S), extractable	S1.70	5	
Verticillium Wilt		14	
Zinc (Zn), extractable	S6.10	5	