

Soil Test Packages

- E1 Complete Analysis:** pH, OM, SS, NO3-N, NH4-N, P, K, Ca, Mg, Na, Total Bases, SO4-S, B, Zn, Mn, Cu, Fe, Effervescence
- E2** pH, SS, NO3-N, NH4-N P, K, OM, SO4-S, B, Zn
- E3** pH, NO3-N, NH4-N, P, K, SO4-S, B, Zn
- E4** pH, NO3-N, NH4-N, P, K, SO4-S
- E5** NO3-N, NH4-N, P, K, SO4-S
- E6 Nitrogen Only:** NO3-N, NH4-N
- E7-1 Dryland Crops** First Depth: pH, OM, P, K, NO3-N, NH4-N, SO4-S, H2O
- E7-2 Dryland Crops** Second Depth: NO3-N, NH4-N, SO4-S, H2O
- E7-3 Dryland Crops** Third+ Depth: NO3-N, NH4-N, H2O
- E7-E1 Dryland Crops** - Substitute E1 package for first depth
- E7-E2 Dryland Crops** - Substitute E2 package for first depth
- E8 Saturated Paste Extraction Nutrients** (P, K, Ca, Mg, Na, B, Zn, Mn, Cu, Fe), NO3-N, NH4-N, pH, SS
- E9 Complete Chemical analysis (E1) + Saturated Paste Test**
- E10 Home Garden Package:** pH, SS, P, K, SO4-S, NO3-N, NH4-N, plus recommendation
- E11 Organic Farm Package:** pH, OM, NO3-N, NH4-N, P, K, Total Cu, CEC
- E12** NO3-N, NH4-N, P, K
- E13** NO3-N, NH4-N, SO4-S
- E14** NO3-N, NH4-N, P
- E15** NO3-N, SO4-S
- E16** P, K
- E17** NO3-N, SO4-S, B
- E18** NO3-N, NH4-N, pH, SS

Plant Tissue Packages

For leaves, fruit, tubers, and feed samples (reported as total content in a sample) Complete:

P1 Total N, P, K, Ca, Mg, S, B, Zn, Mn, Cu, Fe, Na

P2 Basic: Total N, P, K, S

P3 Total N, S

For petiole and root samples (NO3-N reported as a water-extractable fraction) Complete:

P4 NO3-N, P, K, S, Ca, Mg, B, Zn, Mn, Cu, Fe, Na

P5 Basic: NO3-N, P, K, S

P6 NO3-N, P, K

P7 NO3-N, S

Individual Analysis

P8 Any One of NO3-N, P, K, S, Ca, Mg, Na, B, Zn, Mn, Cu, Fe, Moisture or Ash Total

P9 Nitrogen or Protein

P10 Chlorides

P17 Heavy Metals: Al, Sb, As, Be, Cd, Cr, Co, Pb, Mo, Ni, Se, Sr, Ti, Sn, V

P18 Hg

P19 Weekly Fertility Logging (Per Chart)

P20 Sample Processing Fee per sample for samples requiring extra preparation

Compost and Manure Packages

C1 Complete: pH, EC, Moisture, Total N, Total C, C:N Ratio, P, K, S, Ca, Mg, Fe, Cu, Mn, Zn, B, Na

C2 Complete Plus: pH, EC, Moisture, Total N, NH4-N, NO3-N, Total C, C:N Ratio, P, K, S, Ca, Mg, Fe, Cu, Mn, Zn, B, Na

C3 Total Minerals: Moisture, Total N, Total C, P, K, S, Ca, Mg, Fe, Cu, Mn, Zn, B, Na

C4 Basic Analysis: pH, EC, Moisture, Total N, Total C, P, K, S

C5 Simple: Moisture, Total N, P, K

C6 Nitrate Nitrogen (NO3-N) and Ammoniacal Nitrogen (NH4-N)

C7 Total Nitrogen

C8 Total Nitrogen, Water Soluble and Water Insoluble Nitrogen

C9 Total Carbon

C10 Chlorides

C11 Individual Tests: NO3-N, NH4-N, P, K, S, Ca, Mg, Fe, Cu, Mn Zn, B, EC, pH, Ash, Moisture, Bulk Density

Individual Analysis

- S1** Any One of pH, SS, P, K, Ca, Mg, Na, NO3-N, NH4-N, SO4-S, B, Zn, Mn, Cu, Fe, Eff., H2O, Bulk Density
- S2** Organic Matter (OM)
- S3** Sikora Buffer pH (Lime Requirement)
- S4** Total Bases (K, Ca, Mg, plus Na)
- S5** Total Kjeldahl Nitrogen (TKN)
- S6** Chlorides (Cl)
- S7** Cation Exchange Capacity (CEC)
- S7 Pkg+**
- S8** Texture Analysis (Sand, Silt, and Clay Fractions by Hydrometer)
- S8 Pkg+**
- S9** Gypsum Requirement (pH, Soluble Salts, and Na) plus Recommendation
- S10** Any One of Heavy Metals (Pb, Cd, Cr, As, Ba, Se, Ag, or Ni) by DTPA-Sorbitol Extraction Any
- S11** One of Heavy Metals (Pb, Cd, Cr, As, Ba, Se, Ag, or Ni) by Acid Digestion
- S12** Mercury
- S13** Nematode Analysis (with Species Identification) by Subcontract Lab
- S15** Wire Worm Analysis by Subcontract Lab
- S16** Total P, K, Ca, Mg, Na, S, Zn, Mn, Cu, or Fe by Acid Digestion (Any One Analyte)
- S17** Total Carbon
- S18** Total Carbon, Total Organic Carbon, Total Inorganic Carbon
- S19** Calcium Carbonate Equivalency (CCE)
- S20** Bicarbonate (saturated paste)
- S21** Sodium Absorption Ratio (SAR) of Saturation Extract
- S22** Exchangeable Sodium Percentage
- S23** Total Solids
- S24** Total Volatile Solids
- S25** Particle Size Distribution (by Sieve Method)
- S26** Electrical Conductivity of Saturation Extract (ECE)
- S27** Solvita Test (CO2 Burst, Approximate microbial biomass, Potential Mineralizable Nitrogen)
- S28** Soil Test Evaluation and Recommendation (*additional fee will apply*)

Feed and Forage Packages

Basic: Dry Matter, Moisture, Crude Protein, ADF, Ash

NIR Basic: DM, CP, ADF, NDF, Lignin, Starch, Sugar, Fat, Ash, Soluble Protein, NDICP, ADICP, Ca, P, Mg, K

**Calculated Values: TDN, NEL, NEM, NEG, ME, NFC, NSC, RFV, DOMI*

NIR Plus: NDF Digestibility, Fermentation Acids, Fatty Acids, Soluble Fiber + **NIR Basic Pkg**

NIR Basic + Wet Chem: Adds Wet Chemistry Crude Protein, ADF & NDF values to NIR Basic Pkg

NIR Plus + Wet Chem: Adds Wet Chemistry Crude Protein, ADF & NDF values to NIR Plus Pkg

Feed Panel: Dry Matter, Moisture, Crude Protein, ADF, NDF, Ash

Mineral Panel: Ca, P, Mg, K, Na, Fe, Cu, Mn, Zn

Dry Cow Mineral: S, Cl + **Mineral Panel Pkg**

Hydroponic Fertilizer and Growth Media

HF1 Complete: pH, Electrical conductivity(EC), Total Alkalinity, NO3-N, NH4-N, P, K, Ca, Mg, S, B, Zn, Cu, Fe, Al, Cl

HF2 Basic: pH, Electrical conductivity(EC), NO3-N, NH4-N, P, K

HF3 Saturated Media: Saturated Paste Extract - pH, EC, NO3-N, P, K, Ca, Mg, Na

HF4 Heavy Metals: Total As, Cd, Co, Hg, Mo, Ni, Pb, Se, Zn

Fertilizer Packages

M1 Complete Macros and Micros: Total N, P (as P2O5), K (as K2O), S, Ca, Mg, Fe, Cu, Mn Zn B

M2 Basic: Total N, P (as P2O5), K (as K2O), S

M3 Simple: Total N, P (as P2O5), K (as K2O)

M4 Heavy Metals (Washington State Department of Agriculture): As, Cd, Co, Hg, Mo, Ni, Pb, Se, Zn

M5 Heavy Metals (Oregon Department of Agriculture): As, Cd, Pb, Hg, Ni

M6 Gypsum Purity Test: Total Ca, S, Water Solubility, and Moisture

M7 Individual Tests: P, K, S, Ca, Mg, Fe, Cu, Mn Zn, B, EC, pH, Moisture, Bulk Density

M8 Individual Heavy Metals

M9 Mercury (Hg)