### Soil Fertility

**Routine**
- pH and buffer Index (Sikora)
- Nitrate-Nitrogen
- Available Phosphorus Index (M3)
- Available Potassium Index (M3)

**Subsoil Nitrate-Nitrogen**
(with submission of surface soil) $2.00

**Nitrate-Nitrogen**

**Secondary Nutrients**
- Sulfate-Sulfur
- Magnesium and Calcium

**Micronutrients**
- Iron, Zinc and Boron

**Organic Matter**

**Soil Salinity**

**Salinity Management** $15.00
(1:1 extraction for diagnostic purposes)
- Sodium
- Magnesium
- Calcium
- Potassium
- pH
- Total Soluble Salts
- Boron
- Electrical Conductivity
- SAR
- ESP

**Comprehensive Salinity** $40.00
(Saturated paste extraction)
- Sodium
- Magnesium
- Calcium
- Potassium
- Chloride
- Nitrate-Nitrogen
- Sulfate
- Electrical Conductivity
- Carbonate
- Bicarbonate
- pH
- Total Soluble Salts
- Boron
- ESP
- SAR

**Soil Texture** $10.00
- Textural Class (Hydrometer Method)
- % sand, silt, clay

### Soil Salinity

**Soil Salinity**

**Salinity Management** $15.00
(1:1 extraction for diagnostic purposes)
- Sodium
- Magnesium
- Calcium
- Potassium
- pH
- Total Soluble Salts
- Boron
- Electrical Conductivity
- SAR
- ESP

### Livestock - $15.00

- Sodium
- Calcium
- Magnesium
- Potassium
- Copper
- Iron
- Manganese
- Zinc

### Household - $15.00

- Sodium
- Sulfate
- Calcium
- Chloride
- Magnesium
- Nitrate
- Potassium
- pH
- Hardness
- Electrical Conductivity
- Total Soluble Salts
- Zinc

### Irrigation - $15.00

- Sodium
- Magnesium
- Calcium
- Potassium
- Chloride
- Nitrate-Nitrogen
- Sulfate
- Electrical Conductivity
- pH
- Total Soluble Salts
- Boron
- Hardness
- Carbonate
- Bicarbonate
- SAR
- Residual Carbonate

### Additional analyses are available upon request, or check our website at www.soiltesting.okstate.edu

### FORAGE and FEED

**Basic Analysis** $8.00
- Protein & Moisture

**Basic Plus Energy** $14.00
- Protein & Moisture
- ADF (Acid Detergent Fiber)
- TDN (Total Digestible Nutrients)
- Net Energy for: Gain; Lactation; and Maintenance

**Basic Plus Energy Plus RFV** $20.00
- Protein, Moisture, ADF, & Energy
- NDF (Neutral Detergent Fiber)
- RFV (Relative Feed Value - for alfalfa only)

**Nitrate Toxicity** $6.00
- Nitrate
- Moisture

**Minerals** $12.00
- Ca, P, K, Mg, S, Cu, Fe, and Zn

### PLANT TISSUE

**TN, P, K, Ca, Mg, S, B, Cu, Fe, Mn, and Zn** $20.00

### Animal Waste & Compost*

**Test 1** $20.00
- pH, EC, Moisture, TN, C, S, P, K, Ca, Mg, Na, Cu, Zn, Mn, and Fe

**Test 2** $6.00
- NH₄-N and NO₃-N

**Test 3** $8.00
- Water Soluble P

*Liquid samples an additional $5.00.
SUBMITTING SAMPLES

Soil, water and plant samples should be submitted through your County Cooperative Extension Office. They provide sample bags and water bottles and handle mailing of samples to the laboratory. Your County Extension Educators can assist with proper sampling techniques, test result interpretations, and recommendations.

QUALITY ASSURANCE

Accuracy and quality of test results are assured through daily analysis of quality control samples, a three-step internal data review process, and participation in external certification and sample exchange programs. For detailed information regarding our quality assurance practices, call the SWFAL office.

SAMPLE RESULTS

Most samples are processed and analyzed within three to five working days and results are posted on the internet. Forage nitrate results are posted two days after samples are received. Charges for laboratory services are billed monthly from the office through which the sample was submitted.

Soil, Water & Forage Analytical Laboratory
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Stillwater, OK 74078
(405) 744-6630
(405) 744-9575 Fax
Website: www.soiltesting.okstate.edu
E-mail: soiltesting@okstate.edu

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