

## SOIL



### Soil Fertility

<b>Routine</b>	<b>\$10.00</b>
pH and buffer Index (SMP)	
Nitrate-Nitrogen	
Available Phosphorus Index (M3)	
Available Potassium Index (M3)	
<b>Subsoil Nitrate-Nitrogen</b>	<b>\$2.00</b>
(with submission of surface soil)	
<b>Nitrate-Nitrogen</b>	<b>\$4.00</b>
<b>Secondary Nutrients</b>	<b>\$4.00</b>
Sulfate-Sulfur	
Magnesium and Calcium	
<b>Micronutrients</b>	<b>\$4.00</b>
Iron, Zinc and Boron	
<b>Organic Matter</b>	<b>\$5.00</b>
With Routine Analysis	
\$4.00	

### Soil Salinity

<b>Salinity Management</b>	<b>\$15.00</b>
(1:1 extraction for diagnostic purposes)	
Sodium	Magnesium
Calcium	Potassium
pH	Total Soluble Salts
Boron	Electrical Conductivity
SAR	ESP
<b>Comprehensive Salinity</b>	<b>\$40.00</b>
(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

## FORAGE



<b>Basic Analysis</b>	<b>\$6.00</b>
Protein & Moisture	
<b>Basic Plus Energy</b>	<b>\$12.00</b>
Protein & Moisture	
ADF (Acid Detergent Fiber)	
TDN (Total Digestible Nutrients)	
Net Energy for: Gain; Lactation; and Maintenance	
<b>Basic Plus Energy Plus RFV</b>	<b>\$18.00</b>
Protein, Moisture, ADF, & Energy	
NDF (Neutral Detergent Fiber)	
RFV (Relative Feed Value - for alfalfa only)	
<b>Nitrate Toxicity</b>	<b>\$6.00</b>
Nitrate	
Moisture	
<b>Minerals</b>	<b>\$12.00</b>
Ca, P, K, Mg, S, Cu, Fe, and Zn	

## WATER



### Livestock - \$6.00

pH  
Total Soluble Salts  
Electrical Conductivity  
Nitrate-Nitrogen

### Household - \$15.00

Sodium Sulfate  
Calcium Chloride  
Magnesium Nitrate  
Potassium pH  
Copper Hardness  
Iron Electrical Conductivity  
Manganese 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

## Animal Waste & Compost

<b>Test 1</b>	<b>20.00</b>
pH, EC, Moisture, TN, C, S, P, K, Ca, Mg, Na, Cu, Zn, Mn, and Fe	
<b>Test 2</b>	<b>8.00</b>
NH <sub>4</sub> -N and NO <sub>3</sub> -N	
<b>Test 3</b>	<b>6.00</b>
Water Soluble P	

## SUBMITTING SAMPLES



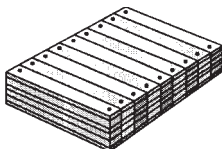
Soil, water and plant samples should be submitted through your County Cooperative Extension Office. They provide sample bags and water bottles and handle mailing of samples to the laboratory. Your County Extension Educators can assist with proper sampling techniques, test result interpretations, and 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 mailed first class and posted on the internet. Forage nitrate results are mailed to the County Extension Office 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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Oklahoma Cooperative Extension Service

Leaflet L- 241

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## TESTING SERVICES and PRICE LIST

### SOIL, WATER & FORAGE ANALYTICAL LABORATORY



*Oklahoma Cooperative Extension Service  
Oklahoma State University*

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**Division of Agricultural Sciences  
and Natural Resources  
Oklahoma State University**