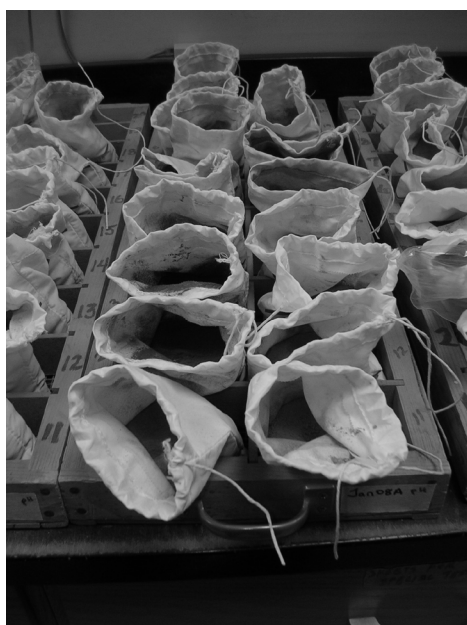


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# Fee Schedule

Prices Effective July 1, 2020

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**UD Core Laboratory for Soil, Plant and Water Analysis  
&  
Soil Testing Program**

531 S. College Avenue, 152 Townsend Hall  
Newark, DE 19716-2170

(302) 831-1392 (Phone) • (302) 831-0605 (Fax)

**E-mail:** [soiltest@udel.edu](mailto:soiltest@udel.edu)

**Website:** <https://www.udel.edu/extension/soiltest>

**Hours:** 8:00 to 4:30 Monday – Friday

## A. Basic Soil Testing Packages for Agriculture and Landscape / Garden Uses

ID	Test Description	Cost/Sample
<b>B1.</b>	<p><b>Commercial Agriculture Soil Test</b>            Routine fertility test for commercial agriculture operations including row crops, vegetables, fruits, and forages for hay and pastures. Package includes soil pH, lime requirement, organic matter, Mehlich 3 extractable nutrients (P, K, Ca, Mg, Mn, Zn, Cu, Fe, B, S, Na and Al), Phosphorus Saturation Ratio and recommendations.</p>	<b>\$14.00</b>
<b>B2.</b>	<p><b>Commercial Landscaper Soil Test</b>            Routine fertility test for commercial landscapers and lawn care companies. Package includes soil pH, lime requirement, organic matter, Mehlich 3 extractable nutrients (P, K, Ca, Mg, Mn, Zn, Cu, Fe, B, S, Na and Al), Phosphorus Saturation Ratio and recommendations</p>	<b>\$14.00</b>
<b>B3.</b>	<p><b>Home Lawn and Garden Soil Test – Includes Lead Screen</b>            Routine fertility test for the needs of the homeowner – suitable for lawns, gardens, flower beds and the home/residential landscape. Package includes Soil pH, lime requirement, organic matter, Mehlich 3 extractable nutrients (P, K, Ca, Mg, Mn, Zn, Cu, Fe, B, S, Na and Al), Phosphorus Saturation Ratio, Estimated Total Lead and recommendations</p>	<b>\$17.00</b>
<b>B4.</b>	<p><b>Soluble Salts Test</b>            Suitable for use when problems due to excess salts or fertilizers are suspected</p>	<b>\$8.00</b>
<b>B5.</b>	<p><b>Pre-sidedress Soil Nitrate Test for Corn</b>            For commercial corn production. A 12 inch soil sample taken when corn is 12” tall. Includes nitrate-nitrogen measurement and sidedress N recommendation with 24 hour turn-around from the time sample is received by the laboratory.</p>	<b>\$10.00</b>
<b>B6.</b>	<p><b>Soil Lead Screening Test</b>            A screening test for use where soil contamination by lead is suspected. Includes instructions for collecting the sample, lead analysis, interpretation and general guidelines for managing the soil to minimize exposure to the lead present.</p>	<b>\$15.00</b>
<b>B7.</b>	<p><b>Heavy Metal Screening Test</b>            A screening test where there is concern that heavy metals may be present from previous use of a site. Includes As, Cd, Cr, Ni, Pb, Cu and Zn.</p>	<b>\$30.00</b>
<b>B8.</b>	<p><b>Archeology Mehlich 3</b> – includes pH, A-E Buffer and LOI-OM – Data reported by spreadsheet only – no recommendations</p>	<b>\$14.00</b>
<b>B9.</b>	<p><b>Rush Analysis</b></p> <ul style="list-style-type: none"> <li>• Rush service may be arranged for Tests B1, B2, B3 and B4 up to a maximum set of 10 samples.</li> <li>• The charge is guarantees a 5 WORKING DAY turn-around time from the time the sample is received by the laboratory – e.g., a sample received on Monday will be completed the following Monday.</li> <li>• Official university holidays DO NOT count as working days.</li> </ul>	<b>\$20.00</b>

### **Rush Analysis Continued...**

- Samples must be labelled “RUSH” on the outside of the bag or you must call the laboratory with the bag number(s) so that we know to watch for the sample(s).
- You will be called when your sample arrives at the laboratory to let you know that the sample has been received and when it should be completed.
- When your sample is completed, you will be notified. Reports can be sent to you by fax, e-mail, Fedex (for an additional charge) or regular mail. A hardcopy will be sent to you in all cases.

## **B. Individual Soil Tests for Characterization**

<b>ID</b>	<b>Test Description</b>	<b>Cost/Sample</b>
SL-1.	<b>Research Mehlich 3 Routine</b> – includes pH, A-E Buffer and LOI-OM – Data reported by spreadsheet only – no recommendations	<b>\$14.00</b>
SL-2.	<b>Moisture Content and Percent Solids</b>	<b>\$10.00</b>
SL-3.	<b>Water pH only</b>	<b>\$10.00</b>
SL-4.	<b>Adams-Evans Buffer pH</b>	<b>\$10.00</b>
SL-5.	<b>Organic Matter by Loss on Ignition</b>	<b>\$10.00</b>
SL-6.	<b>Walkley-Black Organic Matter</b>	<b>\$15.00</b>
SL-7.	<b>Mehlich 3 Extraction for P, K, Ca, Mg, Mn, Zn, Cu, Fe, B, S, Na Al and PSR</b>	<b>\$13.00</b>
SL-8.	<b>Additional elements in same ICP extract - See solution analysis section</b>	<b>Varies</b>
SL-9.	<b>Water Extractable Soluble Carbon</b>	<b>\$20.00</b>
SL-10.	<b>Acetic Acid Extraction for P and Si</b>	<b>\$15.00</b>
SL-11.	<b>Nitrate- and Ammonium-N by 2M KCl Extraction</b>	<b>\$13.00</b>
SL-12.	<b>Total Nitrogen by Combustion</b>	<b>\$12.00</b>
SL-13.	<b>Total Nitrogen and Total Carbon by Combustion</b>	<b>\$17.50</b>
SL-14.	<b>Total Organic Carbon in Soil</b>	<b>\$35.00</b>
SL-15.	<b>Cation Exchange Capacity at pH 7.0</b> Displacement by NH <sub>4</sub> <sup>+</sup> Saturation	<b>\$30.00</b>
SL-16.	<b>Cation Exchange Capacity at pH 7.0 Plus Exchangeable Cations</b> (Ca, K, Mg and Na)	<b>\$40.00</b>

<b>ID</b>	<b>Test Description</b>	<b>Cost/Sample</b>
<b>SL-17.</b>	<b>Soil Textural Analysis by the Boyoucos Hydrometer Method</b> (% Sand, % Silt and % Clay and USDA Textural Class)	<b>\$30.00</b>
<b>SL-18.</b>	<b>USDA Sand Classes</b>	<b>\$30.00</b>
<b>SL-19.</b>	<b>Custom Sieve Analysis – Sieves to be Specified by the Client</b>	<b>\$30.00</b>
<b>SL-20.</b>	<b>Microwave Digestion</b>	<b>\$16.00</b>
<b>SL-21.</b>	<b>Autoblock Digestion</b>	<b>\$16.00</b>
<b>SL-22.</b>	<b>ICP Analysis of Soil Digest for Routine Element Package</b> (P, K, Ca, Mg, Mn, Zn, Cu, Fe, B, S, Na and Al)	<b>\$13.00</b>
<b>SL-23.</b>	<b>ICP Analysis of Soil Digest for Heavy Metal Element Package</b> (As, Cd, Co, Cr, Cu, Ni, Pb and Zn)	<b>\$13.00</b>

### **C. Individual Plant Analysis Tests**

<b>ID</b>	<b>Test Description</b>	<b>Cost/Sample</b>
<b>PT-1.</b>	<b>Plant Total Nitrogen Analysis by Combustion</b>	<b>\$15.00</b>
<b>PT-2.</b>	<b>Total Elemental Composition</b> Sample digestion and ICP analysis for P, K, Ca, Mg, Mn, Zn, Cu, Fe, B, S, Na and Al	<b>\$22.00</b>
<b>PT-3.</b>	<b>Total Nitrogen and Total Elemental Composition</b> Total N by Combustion. Microwave digestion and ICP analysis for P, K, Ca, Mg, Mn, Zn, Cu, Fe, B, S and Al	<b>\$27.50</b>
<b>PT-4.</b>	<b>Nitrate Reductase in Plant Tissue</b>	<b>\$30.00</b>
<b>PT-5.</b>	<b>Ashing of Plant Tissue @ 550°C</b> Nitrate-N By Ion Selective Electrode	<b>\$12.50</b>
<b>PT-6.</b>	<b>Additional Charge to Add Heavy Metals to Analysis of Plant Digest</b>	<b>\$12.00</b>

### **D. Solution / Extract Analyses**

<b>ID</b>	<b>Test Description</b>	<b>Cost/Sample</b>
<b>SE-1.</b>	<b>Solution pH Only</b>	<b>\$9.00</b>
<b>SE-2.</b>	<b>Solution EC Only</b>	<b>\$9.00</b>
<b>SE-3.</b>	<b>Solution Nitrate- and Ammonium-N</b>	<b>\$11.00</b>
<b>SE-4.</b>	<b>Solution Ortho-Phosphate-P</b>	<b>\$9.00</b>
<b>SE-5.</b>	<b>ICP Elemental Package 1 – Routine Plant Nutrients</b> ICP analysis for P, K, Ca, Mg, Mn, Zn, Cu, Fe, B, S, Na and Al	<b>\$13.00</b>

ID	Test Description	Cost/Sample
SE-6.	<b>ICP Elemental Package 2 – Heavy Metal Analytes</b> ICP analysis for As, Cd, Co, Cr, Cu, Ni, Pb and Zn	<b>\$13.00</b>
SE-7.	<b>ICP Elemental Package 3 – Custom 3 Analytes</b> ICP analysis for 1 to 3 elements – user choice	<b>\$10.00</b>
SE-8.	<b>TIC/TC/TOC for liquids</b>	<b>\$12.00</b>
SE-9.	<b>TIC/TC/TOC/TNb or NPOC/TNb for liquids</b>	<b>\$13.00</b>
SE-10.	<b>Persulfate digestion for Total N and Total P in liquid samples</b>	<b>\$20.00</b>

### E. Compost Testing Fees

ID	Test Description	Cost/Sample
CP-1.	<b>Total N, Total C and C:N Ratio by Combustion</b>	<b>\$20.00</b>
CP-2.	<b>Compost pH &amp; EC</b>	<b>\$10.00</b>
CP-3.	<b>Organic Matter by Loss on Ignition</b>	<b>\$12.00</b>
CP-4.	<b>Nitrate- and Ammonium-N</b>	<b>\$15.00</b>
CP-5.	<b>Digestion for Plant Nutrients (P, K, Ca, Mg, Mn, Zn, Cu, Fe, B, S, Na, Al)</b>	<b>\$21.00</b>
CP-6.	<b>Digestion for Basic Heavy Metals Screening (As, Cd, Cr, Cu, Ni, Pb, Zn)</b>	<b>\$21.00</b>
CP-7.	<b>Moisture Content / Percent Solids Only (<i>otherwise included in all other tests</i>)</b>	<b>\$10.00</b>
CP-8.	<b>Basic Compost Analysis – includes C1, C2, C5, C7</b>	<b>\$45.00</b>
CP-9.	<b>Additional Analytes in Digest (<i>call to discuss availability and cost</i>)</b>	<b>Varies</b>

### F. Greenhouse Media and Solution Analyses

ID	Test Description	Cost/Sample
GH-1.	<b>SME Media Analysis</b> pH, EC, Saturated Media Extract Analysis for P, K, Ca, Mg, Mn, Zn, Cu, Fe, B, S, Na, Al, NO <sub>3</sub> -N and NH <sub>4</sub> -N.	<b>\$40.00</b>