The Plant Science Lab

Schedule of Services 9/1/2017

1 Agricultural Soil Chemistry

Field soils are tested for plant available nutrients and soil quality. It is critically important that the sample is representative of the field or area. If you have questions about soil sampling contact your field representative. Approximately 2 cups of soil are required.

1.1	9900	Basic Soil Test	*Nitrate-N, Sulfate-S, Cl, P, K, OM, pH, EC*	$27.00
1.2	9903	Standard Soil Test	*9900 plus Na, Ca, Mg, Buffer pH*	$42.00
1.3	9905	Detailed Soil Test	*9903 plus Fe, Mn, Cu, Zn, B, Al, BS%*	$57.00
1.4	9907	Detail Plus Soil Test	*9905 plus Total N & C*	$65.00
1.5	9910	PSNT Soil Test	*Soil nitrate*	$24.00
1.6	9925	C & N (Total) in Soil	*Total Carbon and Nitrogen - combustion analyzer*	$18.00

2 Agricultural Water Chemistry

Water samples are analysed for chemical constituents to determine the safety and suitability of a water source for a variety of uses. As water sources can change, regular testing is advised. Water samples should be well sealed and delivered to the lab as soon as possible after sampling. Approximately 250mL water required.

2.1	9943	Water Chemistry (Basic)	*pH, EC, NO3-N, PO4-P, SO4-S, Cl*	$34.00
2.2	9950	Irrigation Water Suitability	*9943 plus Na, K, Ca, Mg, Fe, Mn, Hardness, TDS*	$65.00

3 Growth Media & Nutrient Solutions

Greenhouse operations require special testing for the growth media and nutrient solutions used. Approximately 250mL is required and should be well sealed in a plastic container.

3.1	9960	Solution Basic	*pH, EC, NO3-N, PO4-P, SO4-S, Na, K, Ca, Mg*	$65.00
3.2	9970	Greenhouse Nutrient Solution	*9960 plus Fe, Mn, Cu, Zn, B, Si, Mo, Carbonates*	$85.00
3.3	12490	Potassium (as K2O)	*Potassium (as K2O) in fertilizers*	$21.00
3.4	12500	Basic Liquid Fertilizer Analysis	*Total NPKS and density*	$42.00
3.5	12505	Basic Dry Fertilizer Analysis		$46.00
3.6	12510	Water Solubility of Micronutrients	*Water solubility of Fe, Mn, Cu, Zn and B*	$60.00

4 Plant Tissue Chemistry

Plant tissue is tested for nutrient levels. It is critically important that the sample is representative of the crop. If you have questions about tissue sampling contact your field representative. Deliver tissue sample in 5.5 x 3.5 x 10 inch paper bag.

4.1	10930	N & S (Total) in Plant Tissue	*N & S by combustion analyzer*	$20.00
4.2	10950	Detailed Plant Tissue Test	*10930 plus P, K, Ca, Mg, Na, Fe, Mn, Cu, Zn, Al, B*	$48.00

5 Additional Analyses

Standard surface packages may not include all the appropriate analyses for a particular sample, or they may not provide the desired combination of tests. These additional tests are usually done in combination with a surface package. If they are requested individually an additional $6 per sample will be charged for sample preparation.

5.1	8605	NH4-N in Soil	*Ammonium Nitrogen - 2M KCl extraction*	$25.00
5.2	9198	Organic Matter	*Soil organic matter - loss on ignition method*	$11.00
5.3	9920	Soil Texture	*% Sand, Silt & Clay - hydrometer method*	$21.00
5.4	9930	Dry & Grind Soil pH	*Soil pH - 1:2 soil in water*	$11.00
5.5	9932	Dry & Grind Soil Conductivity	*Soil conductivity - 1:2 soil in water*	$11.00
5.6	9933	Dry & Grind Soil Buffer pH	*Soil buffer pH - 1:2 soil in Mehlich buffer*	$12.00