Plant Sample Information Sheet

K-State Research and Extension
Soil Testing Laboratory
2308 Throckmorton Plant Sciences Center
Manhattan, KS 66506-5503
Tel: 785-532-7897 Fax:785-532-7412
www.agronomy.ksu.edu/soiltesting/

Package No./Name	Analysis Included	Cost
#1	Plant Nitrates Only	$5
#2	N, P, K	$12
#3	Package #2 + S, Zn, Cu, Fe, Mn, Ca, Mg	$20
#4	Protein	$7

*Individual tests can be selected. For full listing of analysis offered please refer to the back of this sheet.

Return results to:

Date Sent: _____

Grower: _____

Address: _____

_____

Phone: _____ County: _____

Email: _____

NOTE: Please submit plant samples in paper bags

For Lab Use	Sample ID	Crop or Plant	Plant Part	Growth Stage (see back)	Irrigated	Tests Requested
		☐Corn ☐Milo ☐Wheat ☐ _____	☐Grain ☐Leaves ☐Whole Plant ☐ _____		☐ Yes ☐ No	
		☐Corn ☐Milo ☐Wheat ☐ _____	☐Grain ☐Leaves ☐Whole Plant ☐ _____		☐ Yes ☐ No	
		☐Corn ☐Milo ☐Wheat ☐ _____	☐Grain ☐Leaves ☐Whole Plant ☐ _____		☐ Yes ☐ No	
		☐Corn ☐Milo ☐Wheat ☐ _____	☐Grain ☐Leaves ☐Whole Plant ☐ _____		☐ Yes ☐ No	

Comments: _____

There are two ways which plant analysis is commonly used: diagnostics and monitoring.

Diagnostics:

Plant analysis is an excellent tool for diagnosing field problems. When possible collect two or more comparative samples, one from the problem area and one from a close-by, normal or better area. It is best if the samples are collected from the same crop variety and from plants planted about the same time since varieties can differ in nutrient content and nutrient content often drops as plants develop.

Monitoring:

Plant analysis is an excellent quality control tool for measuring the effectiveness of your nutrient management program. For most crops normal ranges of nutrient content have been developed for specific plant parts at specific stages of plant growth.

Sampling:

For **corn**, collect 15-20 ear leaves or the leaf above and opposite the ear shoot at green silk.

For **soybeans**, collect 25 sets of the top, fully developed leaflets, without the petioles, when the first pods are ½ to 1 inch in length.

For **wheat**, collect 25-30 flag leaves at flowering.

For additional information or plant analysis, please contact the lab

Analysis	Method	Price
Moisture		$3.00
Nitrogen	Sulfuric Acid/Hydrogen Peroxide digest	$7.00
Phosphorus	Sulfuric Acid/Hydrogen Peroxide digest	$7.00
Potassium	Sulfuric Acid/Hydrogen Peroxide digest	$7.00
Nitrogen and Phosphorus	Sulfuric Acid/Hydrogen Peroxide digest	$9.00
Nitrogen and Potassium	Sulfuric Acid/Hydrogen Peroxide digest	$10.00
Phosphorus and Potassium	Sulfuric Acid/Hydrogen Peroxide digest	$10.00
Nitrogen, Phosphorus and Potassium	Sulfuric Acid/Hydrogen Peroxide digest	$12.00
Nirtric-Perchloric Digest	**(necessary for Ca, Mg, Zn, Fe, Cu, Mn, SO_4)**	$6.00
Calcium	Nirtric-Perchloric digest	$3.00
Magnesium	Nirtric-Perchloric digest	$3.00
Zinc	Nirtric-Perchloric digest	$3.00
Iron	Nirtric-Perchloric digest	$3.00
Copper	Nirtric-Perchloric digest	$3.00
Manganese	Nirtric-Perchloric digest	$3.00
Sulfate-Sulfur	Nirtric-Perchloric digest	$3.00
Nitrate	KCl extraction	$5.00
Chloride	Calcium Nitrate extraction	$5.00