Kansas State University Soil Testing Laboratory
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www.agronomy.ksu.edu/soiltesting/

SOIL INFORMATION SHEET

Kansas State University Extension Shawnee County

SHAWNEE COUNTY CONTACT
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Submitted by: Shawnee County Ext
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Submitted For:

Grower: ______________________________

Address: ______________________________

____

Phone: ______________ County: ________

Email: ______________________________

Package*	Analysis Included	Cost
Package #1	pH, Buffer pH, P, K	$14.00
Package #2	pH, buffer pH, P, K, OM, Zn	$22.00
Package #3	pH, buffer pH, P, K, Ca, Mg, Na, CEC	$17.00
Profile Package	NO_3-N, SO_4-S, Cl (0-24" sample recommended)	$16.00
Salt Alkali	pH, electrical conductivity, soluble Na, exch. Na, exch. Na%	$24.00
Diagnostic Fertility	pH, buffer pH, OM, P, K, Ca, Mg, Na, CEC, Zn, Cu, Exch. Al	$35.00
Soil Characterization	%Sand, %Silt, %Clay, OM, CEC, pH, EC, K, Ca, Mg, Na	$45.00

* Individual test may also be selected. Please refer to the back of this sheet.
* **Orders of 20+ samples receive a 10% discount**

Date:______________________

Column For Lab Use	Name of Sample	Depth in Inches	Intended Crop	Yield Average	Alternative Crop	Yield Average	Tillage	Irrigated	Previous Crop	Package or Test Requested
			☐ Corn ☐ Milo ☐ Soybeans ☐ Wheat ☐ __________		☐ Corn ☐ Milo ☐ Soybeans ☐ Wheat ☐ __________		☐ Conv. ☐ No-Till	☐ Yes ☐ No	☐ Corn ☐ Milo ☐ Soybeans ☐ Wheat ☐ __________	
			☐ Corn ☐ Milo ☐ Soybeans ☐ Wheat ☐ __________		☐ Corn ☐ Milo ☐ Soybeans ☐ Wheat ☐ __________		☐ Conv. ☐ No-Till	☐ Yes ☐ No	☐ Corn ☐ Milo ☐ Soybeans ☐ Wheat ☐ __________	
			☐ Corn ☐ Milo ☐ Soybeans ☐ Wheat ☐ __________		☐ Corn ☐ Milo ☐ Soybeans ☐ Wheat ☐ __________		☐ Conv. ☐ No-Till	☐ Yes ☐ No	☐ Corn ☐ Milo ☐ Soybeans ☐ Wheat ☐ __________	
			☐ Corn ☐ Milo ☐ Soybeans ☐ Wheat ☐ __________		☐ Corn ☐ Milo ☐ Soybeans ☐ Wheat ☐ __________		☐ Conv. ☐ No-Till	☐ Yes ☐ No	☐ Corn ☐ Milo ☐ Soybeans ☐ Wheat ☐ __________	

Sufficiency – Sufficiency recommendations are based upon meeting the intended crops nutrient requirements.

Build – Build-maintenance recommendations can be used to build soil test P and K within a certain number of years.

Fill out additional information below for NITROGEN samples						
Column for Lab Use	Name of Sample (copy from previous side)	Manure Applied	Does grazing occur on field? If so, how many cows, and what is their weight?	Did you perform stand destruction tillage?	Fertilizer Efficiency	Soil Texture in top 24 inches for soil NO_3 Efficiency (Unsure? See note below table)
		☐ Yes (specify type below): ______ ☐ No	☐ Yes # cows: ______ Approx. weight : ______ ☐ No	☐ No ☐ Yes (specify field type): **Alfalfa** Excellent Stand (>5 plants/ft^2) ☐ Good Stand (2-5 plants/ft^2) ☐ Fair Stand (12-2 plants/ft^2) ☐ Poor Stand (<1 plant/ft^2) ☐ **Red Clover** Excellent Stand ☐ Good Stand ☐ Poor Stand ☐ **Sweet Clover** Excellent Stand ☐ Good Stand ☐ Poor Stand ☐	Injected or split applied ☐ Broadcast, fall-applied pre-plant ☐ Other: ______ ☐	Sandy Clay ☐ Sandy Clay Loam ☐ Sandy Loam ☐ Loamy Sand ☐ Silty Clay ☐ Clay Loam ☐ Silty Clay Loam ☐ Loam ☐ Silt Loam ☐
		☐ Yes (specify type below): ______ ☐ No	☐ Yes # cows: ______ Approx. weight : ______ ☐ No	☐ No ☐ Yes (specify field type): **Alfalfa** Excellent Stand (>5 plants/ft^2) ☐ Good Stand (2-5 plants/ft^2) ☐ Fair Stand (12-2 plants/ft^2) ☐ Poor Stand (<1 plant/ft^2) ☐ **Red Clover** Excellent Stand ☐ Good Stand ☐ Poor Stand ☐ **Sweet Clover** Excellent Stand ☐ Good Stand ☐ Poor Stand ☐	Injected or split applied ☐ Broadcast, fall-applied pre-plant ☐ Other: ______ ☐	Sandy Clay ☐ Sandy Clay Loam ☐ Sandy Loam ☐ Loamy Sand ☐ Silty Clay ☐ Clay Loam ☐ Silty Clay Loam ☐ Loam ☐ Silt Loam ☐
		☐ Yes (specify type below): ______ ☐ No	☐ Yes # cows: ______ Approx. weight : ______ ☐ No	☐ No ☐ Yes (specify field type): **Alfalfa** Excellent Stand (>5 plants/ft^2) ☐ Good Stand (2-5 plants/ft^2) ☐ Fair Stand (12-2 plants/ft^2) ☐ Poor Stand (<1 plant/ft^2) ☐ **Red Clover** Excellent Stand ☐ Good Stand ☐ Poor Stand ☐ **Sweet Clover** Excellent Stand ☐ Good Stand ☐ Poor Stand ☐	Injected or split applied ☐ Broadcast, fall-applied pre-plant ☐ Other: ______ ☐	Sandy Clay ☐ Sandy Clay Loam ☐ Sandy Loam ☐ Loamy Sand ☐ Silty Clay ☐ Clay Loam ☐ Silty Clay Loam ☐ Loam ☐ Silt Loam ☐

*Visit the Natural Resources Conservation Service, United States Department of Agriculture (USDA- NRCS) Web Soil Survey online to get an idea of the soil type on your property: http://websoilsurvey.sc.egov.usda.gov/

Fill out additional information below for PHOSPHOROUS and POTASSIUM samples (You can select both options to see all recommendations if desired! **Build Maintenance rec's not available for grass)*	
☐ I would like my samples that have P and K to have **Sufficiency** fertilizer recommendations	**"Sufficiency"** fertility programs are intended to estimate the long-term fertilizer phosphorus or potassium required to provide optimum economic return in the year of nutrient application while achieving about 90 to 95% of maximum yield. In some years, greater amounts of nutrient are required for optimum yield and economic return, while in other years less than recommended amounts of nutrient would suffice. There is little consideration of future soil test values, and soil test values will likely stabilize in the 'low' (i.e., deficient) sufficiency range.
☐ I would like my samples that have P and K to have **Build Maintenance** fertilizer Recommendations. Number of years to build P and K (default= 4 yrs): ______	***Note: not available for samples from grass pastures.** **"Build-maintenance"** recommendations are intended to apply enough phosphorus or potassium to build soil test range to a target soil test value over a planned time frame (typically four to eight years) and then maintain soil test values in a target range in future years. If the soil test is within the target range, then recommended nutrient application rates are equal to crop removal. If soil test values exceed the target range, no phosphorus or potassium is recommended with the exception of low starter applied rates, if desired. Build-maintenance fertility programs are not intended to provide optimum economic returns in a given year, but rather attempt to minimize the probability of phosphorus or potassium limiting crop yields while providing for near maximum yield potential. The nutrient concentrations per unit of yield for various agronomic crops are presented in Table 1, which can be used in conjunction with yield data to calculate the total crop removal over a period of time.

Additional comments or information:	