



Diagnostic

Plant Tissue Report

Client: Paul Hoffman
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[Links to Helpful Information](#)

Sampled: 06/20/2011

Received: 07/05/2011

Completed: 07/07/2011

Farm: 2111

Sample Information	Nutrient Measurements												Nutrient Ratios	
Sample ID: 01	<i>N (%)</i>	<i>P (%)</i>	<i>K (%)</i>	<i>Ca (%)</i>	<i>Mg (%)</i>	<i>S (%)</i>	<i>Fe (ppm)</i>	<i>Mn (ppm)</i>	<i>Zn (ppm)</i>	<i>Cu (ppm)</i>	<i>B (ppm)</i>	<i>Mo (ppm)</i>		
Crop: Wheat	4.04	0.44	2.03	0.42	0.14	0.30	131	2.99	2.57	1.52	8.88		N:S 13.4 : 1	
Growth Stage: E	Interpretation Indexes												N:K 1.99 : 1	
Week: 0	<i>N</i>	<i>P</i>	<i>K</i>	<i>Ca</i>	<i>Mg</i>	<i>S</i>	<i>Fe</i>	<i>Mn</i>	<i>Zn</i>	<i>Cu</i>	<i>B</i>	<i>Mo</i>	Fe:Mn	
Plant Part: T	51	69	42-L	57	50	57	64	52	54	75	55			
Plant Position: U	Other Results													
Plant Appearance: Light green	<i>Na (%)</i>	<i>Cl (%)</i>	<i>C (%)</i>	<i>DW (g)</i>	<i>NO3-N (ppm)</i>	<i>Ni (ppm)</i>	<i>Cd (ppm)</i>	<i>Pb (ppm)</i>	<i>Al (ppm)</i>	<i>Se (ppm)</i>	<i>As (ppm)</i>	<i>Li (ppm)</i>	<i>Cr (ppm)</i>	<i>Co (ppm)</i>
	0.04													

Agronomist's Comments:

Septage field; no problems but poor color; hot and dry conditions; teaching soil scientist - BMP versus RYE.

Note low potassium in the wheat sample. Manganese and nitrogen are deficient and potassium is very low in the bermuda sample. I suggest that you submit a corresponding soil sample to help with diagnosis and corrective action. Please contact me if you would like additional information or recommendations for corrective action.

Brenda R. Cleveland, Agronomist
Completed: July 7, 2011

Reprogramming of the laboratory-information-management system that makes this report possible is being funded through a grant from the North Carolina Tobacco Trust Fund Commission.



Thank you for using agronomic services to manage nutrients and safeguard environmental quality.
- Steve Troxler, Commissioner of Agriculture.

Paul Hoffman

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Sample Information	Nutrient Measurements												Nutrient Ratios			
Sample ID: 02	<i>N (%)</i>	<i>P (%)</i>	<i>K (%)</i>	<i>Ca (%)</i>	<i>Mg (%)</i>	<i>S (%)</i>	<i>Fe (ppm)</i>	<i>Mn (ppm)</i>	<i>Zn (ppm)</i>	<i>Cu (ppm)</i>	<i>B (ppm)</i>	<i>Mo (ppm)</i>				
Crop: Bermuda, Hybrid	1.13	0.22	1.18	0.36	0.16	0.26	53.0	0.82	3.90	0.81	5.36					
Growth Stage: M	Interpretation Indexes												<i>N:S 4.32 : 1</i>			
Week: 0	<i>N</i>	<i>P</i>	<i>K</i>	<i>Ca</i>	<i>Mg</i>	<i>S</i>	<i>Fe</i>	<i>Mn</i>	<i>Zn</i>	<i>Cu</i>	<i>B</i>	<i>Mo</i>	<i>N:K 0.96 : 1</i>			
Plant Part: T	18-D	52	30-L	61	52	55	50	13-D	60	55	51	<i>Fe:Mn</i>				
Plant Position: U	Other Results															
Plant Appearance: Light-dark green	<i>Na (%)</i>	<i>Cl (%)</i>	<i>C (%)</i>	<i>DW (g)</i>	<i>NO3-N (ppm)</i>	<i>Ni (ppm)</i>	<i>Cd (ppm)</i>	<i>Pb (ppm)</i>	<i>Al (ppm)</i>	<i>Se (ppm)</i>	<i>As (ppm)</i>	<i>Li (ppm)</i>	<i>Cr (ppm)</i>	<i>Co (ppm)</i>		
	0.26															

Understanding the Plant Report - additional information: [Tissue results for cotton](#), [Tissue results for other crops](#) & [Plant tissue analysis guide](#).

The primary purpose of tissue analysis is to measure crop levels of up to 13 essential nutrients required for normal plant growth and development. These nutrients are supplied to the plant by fertilizer and/or the soil. Primary nutrients (N, P, K) are needed in greatest quantities, secondary nutrients (Ca, Mg, S) in lesser quantities, and micronutrients (Fe, Mn, Zn, Cu, B, Mo, Cl) in very small amounts.

Concentrations of primary & secondary nutrients and Cl are measured as a percentage and other micronutrients in parts per million (ppm), all on a dry-weight basis. However, the quickest way to assess crop need for a particular nutrient is by use of interpretation indexes. Compare the index for the desired nutrient to the chart on the right to find out if the status of that nutrient is deficient, low, sufficient, high or excess.

