## Plant Tissue Report

**Client:** Hayden Cline  
1310 us 70 west  
Valdese, NC 28690  
Sampled County: Burke  

**Advisor:** Judy Moore  
Lincoln CES - House  
115 W Main Street  
Lincolnton, NC 28092  

### Sample Information
- **ID:** BAD1  
- **Crop:** Millet  
- **Growth Stage:** E  
- **Week:** 2  
- **Plant Part:** M  
- **Plant Position:** 0  
- **Plant Appearance:** Interveinal chlorosis  

### Nutrient Measurements
- N (%) 5.35  
- P (%) 0.55  
- K (%) 6.61  
- Ca (%) 0.59  
- Mg (%) 0.33  
- S (%) 0.27  
- Fe 422  
- Mn 7.39  
- Zn 52.2  
- Cu 13.7  
- B 6.96  
- Mo -  
- NO₃-N -  

### Interpretation Indexes
- N:K 0.81 : 1  
- Fe:Mn 57.1 : 1  

### Other Results
- Na (%) 0.03  
- Cl (%) -  
- C (%) -  
- DW (g) -  
- Al -  

### Nutrient Ratios
- N:S 19.6 : 1  

**Agronomist’s Comments:**  
The millet sample is deficient in manganese (Mn). Mn deficiency appears as yellowing between the veins of the young leaves. Mn deficiency is favored by high soil pH. Note that the GOOD1 is slightly low in Mn and boron (B). Also note where nutrients are excessive in these samples. Contact your extension agent for further recommendations. Please contact me if you have questions about this report. Hunter G. Landis 8/8/2016 8:40 AM

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**Sample Information**
- **ID:** GOOD1  
- **Crop:** Millet  
- **Growth Stage:** E  
- **Week:** 2  
- **Plant Part:** M  
- **Plant Position:** 0  
- **Plant Appearance:** Normal  

### Nutrient Measurements
- N (%) 4.76  
- P (%) 0.43  
- K (%) 6.00  
- Ca (%) 0.63  
- Mg (%) 0.44  
- S (%) 0.25  
- Fe 161  
- Mn 13.9  
- Zn 57.3  
- Cu 9.90  
- B 4.59  
- Mo -  
- NO₃-N -  

### Interpretation Indexes
- N:K 0.79 : 1  
- Fe:Mn 11.6 : 1  

### Other Results
- Na (%) 0.01  
- Cl (%) -  
- C (%) -  
- DW (g) -  
- Al -  

### Nutrient Ratios
- N:S 19.4 : 1  

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.*
The primary purpose of tissue analysis is to measure leaf tissue concentrations of up to 13 essential nutrients required for normal plant growth and development. Macronutrients \((\text{N, P, K, Ca, Mg, S})\) are needed in greatest quantities and micronutrients \((\text{Fe, Mn, Zn, Cu, B, Mo, Cl})\) in very small amounts.

Concentrations of macronutrients and \(\text{Cl}\) are reported as a percentage and other micronutrients in parts per million \((\text{ppm})\) in the Nutrient Measurements section. Each nutrient concentration is then compared to the established sufficiency range for that nutrient in the specified crop and translated into a numerical index between 0 and 124.

In the Interpretation Indexes section, the numerical index for each nutrient is reported along with one of the following alphabetic descriptors:

\(\text{D} = \text{Deficient} \quad \text{S} = \text{Sufficient} \quad \text{E} = \text{Excessive}\)

\(\text{L} = \text{Low} \quad \text{H} = \text{High}\)

<table>
<thead>
<tr>
<th>Nutrient</th>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td>(\text{Al})</td>
<td></td>
</tr>
<tr>
<td>Magnesium</td>
<td>(\text{Mg})</td>
<td></td>
</tr>
<tr>
<td>Sulfur</td>
<td>(\text{S})</td>
<td></td>
</tr>
<tr>
<td>Boron</td>
<td>(\text{B})</td>
<td></td>
</tr>
<tr>
<td>Manganese</td>
<td>(\text{Mn})</td>
<td></td>
</tr>
<tr>
<td>Zinc</td>
<td>(\text{Zn})</td>
<td></td>
</tr>
<tr>
<td>Calcium</td>
<td>(\text{Ca})</td>
<td></td>
</tr>
<tr>
<td>Molybdenum</td>
<td>(\text{Mo})</td>
<td></td>
</tr>
<tr>
<td>Nitrogen</td>
<td>(\text{N})</td>
<td></td>
</tr>
<tr>
<td>Copper</td>
<td>(\text{Cu})</td>
<td></td>
</tr>
<tr>
<td>Sodium</td>
<td>(\text{Na})</td>
<td></td>
</tr>
<tr>
<td>Iron</td>
<td>(\text{Fe})</td>
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</tr>
<tr>
<td>Nitrate</td>
<td>(\text{NO}_3^-\text{N})</td>
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</tr>
<tr>
<td>Potassium</td>
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</tr>
<tr>
<td>Phosphorus</td>
<td>(\text{P})</td>
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</tr>
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</table>

Additional information:  
[www.ncagr.gov/agronomi/pdffiles/uplant.pdf](http://www.ncagr.gov/agronomi/pdffiles/uplant.pdf) &  