Completing the Plant Sample Information Form

NCD&A&S Agronomic Division
Plant/Waste/Solution/Media Section

May 2010
Best Place to Find Forms

Online! The most current version (to print and fill out by hand) is always available at www.ncagr.gov/agronomi/forms.htm.
Option 2: Electronic Forms
(watch for improvements by Dec 2011)

- Available online to clients who register in PALS!
- At present, these forms are partially functional.
- Clients can enter sample information online, but they still have to print copies of the completed form for their own records and to submit with their samples.

**Note:** Electronic forms do not look like the forms described in this presentation, but clients can use them to enter most of the same information.
Standard Paper Form

Form AD-4 (May 2010)

Note the date in the upper left corner. If the form is several years old, don’t use it. Go online and get a current form.
For Lab / Office Use Only

Leave these areas blank. Laboratory staff will supply this information.

<table>
<thead>
<tr>
<th>SAMPLE INFORMATION</th>
<th>PAYMENT</th>
<th>GROWER INFORMATION (please print)</th>
<th>CONSULTANT/OTHER RECIPIENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>FARM ID</td>
<td>A-1</td>
<td>Farmer Joe</td>
<td>Stevens Martin</td>
</tr>
<tr>
<td>SAMPLED BY</td>
<td>Joe</td>
<td>4 Backwoods Rd.</td>
<td>233 Essex Lane</td>
</tr>
<tr>
<td>DATE</td>
<td>July 25</td>
<td>Rolesville, NC 27571</td>
<td>Rocky Mount</td>
</tr>
<tr>
<td>COUNTY</td>
<td>Wake</td>
<td>Phone (919) 834-0000</td>
<td>Phone (252) 972</td>
</tr>
<tr>
<td>NUMBER OF SAMPLES</td>
<td>3</td>
<td>E-mail address: <a href="mailto:joe@ruralNC.net">joe@ruralNC.net</a></td>
<td>mstevens@RA</td>
</tr>
</tbody>
</table>

| LAB NUMBER | SAMPLE ID | CROP NAME | GROWTH STAGE | WEEK | PLANT PART | PLANT POSITION | SOIL | CORRESPONDING SAMPLE ID | SOLUTION | WASTE | PLANT APP
<table>
<thead>
<tr>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BAD</td>
<td>Trellis Tomato</td>
<td>B</td>
<td>M</td>
<td>U</td>
<td>BADT</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>GOOD</td>
<td>Trellis Tomato</td>
<td>B</td>
<td>M</td>
<td>U</td>
<td>GOODT</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>3</td>
<td>FIELD2</td>
<td>Cotton</td>
<td>E</td>
<td>3</td>
<td>M</td>
<td>U</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: The diagram shows a form for plant sample information with fields for sample type, sample identification, farm information, grower information, and laboratory notes. The form is designed to be used for diagnostic research and has areas marked for laboratory staff to supply information.
## Grower Information

**PLANT SAMPLE INFORMATION**

**SAMPLE ID**: A-1  
**Payment**: $17  
**FARM ID**:  
**Sampled By**: Joe Grower  
**Sample Date**: July 25, Wake County  
**Number of Samples**: 3

**GROWER INFORMATION**

- **Last Name**: Farmer  
- **First Name**: Joe  
- **Address**: 4 Backwoods Rd., Rolesville, NC 27571  
- **Phone**: 919-834-0000

**CONSULTANT/OFFICE recipiend**

- **Last Name**: Stevens  
- **First Name**: Martin  
- **Address**: 233 Essex Lane, Rocky Mount, NC 27571  
- **Phone**: 252-972-0000

**LAB NUMBER**

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>CROP NAME</th>
<th>GROWTH STAGE</th>
<th>PLANT PART</th>
<th>PLANT PART</th>
<th>CORRESPONDING SAMPLE ID/WASTE</th>
<th>PLANT APPEARANCE</th>
<th>SPECIAL NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BAD</td>
<td>Trellis Tomato</td>
<td>B</td>
<td>M</td>
<td>U</td>
<td>BADT</td>
<td>yellow/stunted</td>
</tr>
<tr>
<td>2</td>
<td>GOOD</td>
<td>Trellis Tomato</td>
<td>B</td>
<td>M</td>
<td>U</td>
<td>GOODT</td>
<td>healthy</td>
</tr>
<tr>
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<td>FIELD2</td>
<td>Cotton</td>
<td>E</td>
<td>3</td>
<td>M</td>
<td>U</td>
<td>x</td>
</tr>
</tbody>
</table>

**Growing Conditions**

- **PLANTING DATE**: May 15
- **How Long Have Symptoms Been Present?**: 5 days
- **Are Plants Affected with Disease?** Yes
- **Are Plants Infested with Insects?** No
- **Environmental Conditions in Last Three Weeks**:
  - Rainfall: Below normal  
  - Temperature: Below normal
- **Irrigation Amounts**: 0.5"/day  
  
**Problem Sample Comments**

BAD: The yellowing is marginal with some scorching -- tends to be on the older leaves, good fruit load, have harvested one time.

**Fertilizer History**

- **Preplant**: 5/15  
  - Material: 10-10-10  
  - Rate: 300 lb/A  
  - Method: Broadcast
- **Postplant**: Weekly  
  - Material: 13-0-44  
  - Rate: 50 lb/A  
  - Months: 3 weeks
- **Microelement**: June 15  
  - Material: Solubor  
  - Rate: 125 lb/A  
  - Method: Foliar

_Forget to measure.

Thank you for using agronomic services to manage nutrients and safeguard environmental quality. — Steve Troxler, Commissioner of Agriculture_
Grower Information

Return clients: Consistency matters!

The name you enter here is the exact name you will have to search for in PALS to find your report.

Please help us avoid confusing duplication in our database by being consistent with the name & address you provide.
Grower Information

Check this box if you do not want to receive an e-mail notification when your report becomes available online.

In either case, please provide your e-mail address so we can contact you, if necessary.

Farmer Joe
4 Backwoods Rd.
Rolesville NC 27571
(919) 834-0000
joe@ruralNC.net
<table>
<thead>
<tr>
<th>Lab Number</th>
<th>Sample ID</th>
<th>CROP NAME</th>
<th>GROWTH STAGE</th>
<th>WEEK</th>
<th>PLANT PART</th>
<th>SOIL</th>
<th>CORRESPONDING SAMPLE ID</th>
<th>PLANT APPEARANCE</th>
<th>SPECIAL TESTING DECADE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>3</td>
<td>M</td>
<td>U</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Growing Conditions**

- Planting date: May 15
- How long have symptoms been present? 5 days
- Are plants infected with disease? Yes
- Are plants infested with insects? Yes
- Environmental conditions in last three weeks:
  - Rainfall: Normal
  - Temperature: Normal
- Irrigation amount: 0.5"/day, type: drip

**Problem Sample Comments**

BAD: The yellowing is marginal with some scorching — tends to be on the older leaves; good fruit load, have harvested one time.

**FERTILIZER HISTORY**

- Preplant: 5/15, 10-10-10, 300 lb/A, broadcast
- Postplant: weekly, 10-0-44, 50 lb/A, 3 weeks
- Micronutrients: 6/15, Solubor, 125 lb/A, foliar

Thank you for using agronomic services to manage nutrients and safeguard environmental quality. — Steve Troxler, Commissioner of Agriculture
Consultant / Other Recipient

Identify your ag advisor or other consultant on the sample information form so they will have convenient access to your report.

You will still be able to access your report online as usual.

<table>
<thead>
<tr>
<th>LAST NAME</th>
<th>FIRST NAME</th>
<th>ADDRESS</th>
<th>CITY</th>
<th>STATE</th>
<th>ZIP</th>
<th>PHONE</th>
<th>E-MAIL ADDRESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stevens</td>
<td>Martin</td>
<td>233 Essex Lane</td>
<td>Rocky Mount</td>
<td>NC</td>
<td>27571</td>
<td>(252) 972-0000</td>
<td><a href="mailto:mstevens@RAgroup.com">mstevens@RAgroup.com</a></td>
</tr>
</tbody>
</table>

☐ Do Not notify me when report is available.
### PLANT SAMPLE INFORMATION

**Sample Type**

**Sample ID:** A-1

**Farm ID:** Farmer's Produce

**Grower:** Joe

**Address:** 4 Backwoods Rd.

**City:** Rolesville, NC

**State:** NC

**Zip:** 27571

**Phone:** 919, 834-0000

**Consultant/Other Recipient:** Stevens Martin

**Address:** 233 Essex Lane

**City:** Rocky Mount, NC

**State:** NC

**Zip:** 27571

**Phone:** 252, 972-0000

**E-mail Address:** mstevens@RAgroup.com

**E-mail Address:** joe@ruralNC.net

<table>
<thead>
<tr>
<th>LAB NUMBER</th>
<th>SAMPLE ID</th>
<th>CROP NAME</th>
<th>GROWTH STAGE</th>
<th>PLANT PART</th>
<th>PLANT STRESS</th>
<th>CORRESPONDING SAMPLE</th>
<th>PLANT APPEARANCE</th>
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</thead>
<tbody>
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<td>healthy</td>
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<td>3</td>
<td>FIELD2</td>
<td>Cotton</td>
<td>E</td>
<td>M</td>
<td>U</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**GROWING CONDITIONS**

- **Date:** May 15
- **Planting Date:**
- **How long have symptoms been present?** 5 days
- **Are plants infected with disease?** Yes
- **Are plants infected with insects?** Yes
- **Environmental conditions in last three weeks:**
  - Rainfall: Below normal
  - Temperature: Normal
- **IRRIGATION AMOUNT:** 0.5"/day, TYPE: drip
- **FUNGICIDES USED:**

**PROBLEM SAMPLE COMMENTS**

BAD: The yellowing is marginal with some scorching -- tends to be on the older leaves, good fruit load, haven't harvested one time

**FERTILIZER HISTORY**

- **Preplant:**
  - 5/15
  - 10-10-10
  - 300 lb/A
  - broadcast
- **Postplant:**
  - Weekly
  - 13-0-44
  - 50 lb/A
  - 3 weeks
  - Thru drip
- **Micronutrients:**
  - 6/15
  - Solubor
  - 125 lb/A
  - Foliar

**Comments:**

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

- **Predictive** — routine samples used to monitor crop fertility or to predict optimum harvest for flue-cured tobacco
- **Diagnostic** — samples for problem diagnosis (use this designation if any problem samples are submitted)
- **Out of State** — samples collected outside N.C. They may also be marked as predictive or diagnostic.
- **Research** — samples submitted according to a preapproved NCDA&CS Cooperative Research Agreement
In this example, three tissue samples are being submitted: two problem (diagnostic) samples and one routine (predictive) sample. Whenever you submit routine and problem samples together, select **Diagnostic** as the sample type.
### Sample Information

**PLANT SAMPLE INFORMATION**

**FARM ID:** A-1  
**PAYMENT:** $17

**GROWER INFORMATION (please print):**
- **Last Name:** Farmer  
- **First Name:** Joe  
- **Address:** 4 Backwoods Rd.  
- **City:** Rolesville  
- **State:** NC  
- **Zip:** 27571  
- **Phone:** (919) 834-0000

**CONSULTANT/OTHER RECIPIENT:**
- **Last Name:** Stevens  
- **First Name:** Martin  
- **Address:** 233 Essex Lane  
- **City:** Rocky Mount  
- **State:** NC  
- **Zip:** 27571  
- **Phone:** (252) 972-0000

**SAMPLE DATE:** July 25  
**COUNTY (where collected):** Wake  
**NUMBER OF SAMPLES:** 3  
**Description:** Farmer’s Produce

#### Laboratory Information

<table>
<thead>
<tr>
<th>LAB NUMBER</th>
<th>SAMPLE ID</th>
<th>CROP NAME</th>
<th>GROWTH STAGE</th>
<th>WEEK</th>
<th>PLANT PART</th>
<th>PLANT POSITION</th>
<th>SOIL</th>
<th>CORRESPONDING SAMPLE ID</th>
<th>SOLUTION</th>
<th>PLANT APPEARANCE</th>
<th>SPECIAL TESTS Difficulties observed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BAD</td>
<td>Trellis Tomato</td>
<td>B</td>
<td>M</td>
<td>U</td>
<td>BAD T</td>
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<td>yellow/stunted</td>
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<td>healthy</td>
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<td>Cotton</td>
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<td>3</td>
<td>M</td>
<td>M</td>
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</tr>
</tbody>
</table>

**Growing Conditions:**
- **Planting Date:** May 15
- **How long have symptoms been present:** 5 days
- **Are plants infected with disease:** Yes
- **Are plants infested with insects:** No
- **Environmental conditions in last three weeks:** Normal
- **Irrigation amounts:** 0.5"/day Type: drip
- **Fungicides Used:**

**Problem Sample Comments:**
- BAD: The yellowing is marginal with some scorching -- tends to be on the older leaves, good fruit load, have harvested one time.

**Fertilizer History:**
- **Preplant:** 5/15, 10-10-10, 300 lb/A broadcast
- **Postplant:** weekly, 13-0-44, 50 lb/A 3 weeks
- **Microelement:** 6/15, Solubor, 125 lb/A foliar

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

<table>
<thead>
<tr>
<th>SAMPLE INFORMATION</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FARM ID</strong></td>
<td>A-1</td>
</tr>
<tr>
<td><strong>SAMPLED BY</strong></td>
<td>Joe</td>
</tr>
<tr>
<td>☑ Grower ☐ NCDA&amp;CS Agronomist</td>
<td></td>
</tr>
<tr>
<td>☐ Advisor ☐ Coop. Ext. Agent</td>
<td></td>
</tr>
<tr>
<td><strong>SAMPLE DATE</strong></td>
<td>July 25</td>
</tr>
<tr>
<td><strong>COUNTY (where collected)</strong></td>
<td>Wake</td>
</tr>
<tr>
<td><strong>NUMBER OF SAMPLES</strong></td>
<td>3</td>
</tr>
</tbody>
</table>

**Farm ID** — an identifier chosen by the client, often a consistent label for a particular tract of land.
# Provide Sample Details

## Plant Sample Information

- **Sample Type**: Diagnostic
- **Sample ID**: A-1
- **Payment Method**: $17
- **Sampled by**: Joe
- **Grower Information**: Farmer's Name: Joe, Address: 4 Backwoods Rd., Rolesville, NC 27571
- **Consultant/Other Recipient**: Stevens Martin, Address: 233 Essex Lane, Rocky Mount, NC 27571
- **Number of Samples**: 3
- **Sample Date**: July 25
- **County**: Wake

### Lab Numbers

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Crop Name</th>
<th>Growth Stage</th>
<th>Plant Part</th>
<th>Plant Portion</th>
<th>Soil</th>
<th>Corresponding Sample ID</th>
<th>Plant Appearance</th>
<th>Special Tests</th>
</tr>
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<tbody>
<tr>
<td>BAD</td>
<td>Trellis Tomato</td>
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<td>M</td>
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<td>yellow/stunted</td>
<td></td>
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<tr>
<td>GOOD</td>
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<td>B</td>
<td>M</td>
<td>U</td>
<td>GOODT</td>
<td>healthy</td>
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<td></td>
</tr>
<tr>
<td>FIELD2</td>
<td>Cotton</td>
<td>E</td>
<td>3</td>
<td>M</td>
<td>U</td>
<td></td>
<td></td>
<td>x</td>
</tr>
</tbody>
</table>

### Growing Conditions

- **Planting Date**: May 15
- **Days from Planting**: 5
- **Environmental Conditions**: Normal
- **Irrigation Amount**: 0.5"/day, Type: drip
- **Fungicides Used**: None

### Comments

- **Preplant**: 5/15
- **Postplant**: Weekly
- **Rate**: 13-0-44, 50 lb/A
- **Duration**: 3 weeks

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

- Provide a unique identifier (up to 6 characters) for each sample submitted.
- Choose IDs that are meaningful to you so you can associate your results with the specific area you sampled.
- The sample ID should also be written on the paper bag containing the appropriate sample.
Crop Name

Be as specific as possible when listing the crop name.

<table>
<thead>
<tr>
<th>SAMPLE ID</th>
<th>CROP NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAD</td>
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<td>Trellis Tomato</td>
</tr>
<tr>
<td>FIELD2</td>
<td>Cotton</td>
</tr>
</tbody>
</table>

Diagnostic samples: comparative good and bad samples for problem diagnosis

Predictive (routine) sample
# Growth Stage & Week

## PLANT SAMPLE INFORMATION

**Farm ID:** A-1  
**Payment:** FEE TOTAL $17
**Method of Payment:** AMT PAID $17
**Sampled by:** Joe Gardner NCDA&CS Agronomic Division

**Grower Information:**
- **First Name:** Joe
- **Last Name:** 4 Backwoods Rd.
- **Address:** Rolesville, NC 27571
- **Phone:** (919) 834-0000

**Consultant/Other Recipient:**
- **First Name:** Stevens
- **Last Name:** Martin
- **Address:** 233 Essex Lane
- **Phone:** (252) 972-0000

**Sample Date:** July 25
**County:** Wake
**Number of Samples:** 3
**Grown in:** Farmer's Produce

### Laboratory Sample Information

<table>
<thead>
<tr>
<th>Lab Number</th>
<th>Sample ID</th>
<th>Crop Name</th>
<th>Growth Stage</th>
<th>Plant Part</th>
<th>Soil</th>
<th>Corresponding Sample ID</th>
<th>Plant Appearance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>U</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Growing Conditions:**
- **Planting Date:** May 15
- **Planting Date:** 5 days

**Problem Sample Comments:**
- BAD: The yellowing is marginal with some scorching --- tends to be on the older leaves; good fruit load; have harvested one time.

**Fertilizer History:**
- **Preplant:** 5/15
- **Rate:** 10-10-10
- **Remarks:** 300 lb/A broadcast

**Postplant:**
- **Fertilizer:** weekly
- **Material:** 13-0-44
- **Rate:** 0 lb/A
- **Remarks:** 3 weeks

**Microelement:**
- **Material:** Solubor
- **Rate:** 125 lb/A
- **Remarks:** Foliage

**Irrigation Amounts:**
- **Amount:** 0.5"/day
- **Type:** drip

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

are provided on the back of the *Plant Sample Information* form:

- S = Seedling
- E = Early growth
- B = Bloom
- F = Fruiting
- M = Mature

If your crop has just started to flower, it is in the **Bloom** growth stage, and **B** should be written in the **GROWTH STAGE** field on the form.
Tomato samples were submitted from plants in the bloom (B) stage.

The cotton sample was taken from a crop three weeks into the early stage of growth (E 3).
Growth Week

For cotton or strawberry samples, **always** provide the number of weeks that the crop has been in the current growth stage. For other crops, this information is always helpful but not always necessary.

<table>
<thead>
<tr>
<th>SAMPLE ID</th>
<th>CROP NAME</th>
<th>GROWTH STAGE</th>
<th>WEEK</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAD</td>
<td>Trellis Tomato</td>
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</tr>
<tr>
<td>GOOD</td>
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<tr>
<td>FIELD2</td>
<td>Cotton</td>
<td>E</td>
<td>3</td>
</tr>
</tbody>
</table>
### Plant Part & Position

**NCDA&CS Agronomic Division PlantWaste/Solution/Media Section**

**Mailing Address:** 1046 Mail Service Center, Raleigh, NC 27699-1040

**Physical Address (UPS/FedEx):** 4300 Ready Creek Road, Raleigh NC 27607

**Phone:** (919) 733-2655  **Web Address:** www.ncagr.gov/agronomi

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**PLANT SAMPLE INFORMATION**

**SAMPLE INFORMATION**

<table>
<thead>
<tr>
<th>SAMPLE ID</th>
<th>PAYMENT</th>
<th>METHOD OF PAYMENT</th>
<th>AMT PAID</th>
<th>DATE RECD</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-1</td>
<td>$17</td>
<td>CASH</td>
<td></td>
<td>INITIAL</td>
</tr>
</tbody>
</table>

**GROWER INFORMATION**

<table>
<thead>
<tr>
<th>LAST NAME</th>
<th>FIRST NAME</th>
<th>ADDRESS</th>
<th>CITY</th>
<th>STATE</th>
<th>ZIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joe</td>
<td>Steve</td>
<td>4 Backwoods Rd.</td>
<td>Rolesville</td>
<td>NC</td>
<td>27571</td>
</tr>
</tbody>
</table>

**CONSULTANT/OTHER RECIPIENT**

<table>
<thead>
<tr>
<th>LAST NAME</th>
<th>FIRST NAME</th>
<th>ADDRESS</th>
<th>CITY</th>
<th>STATE</th>
<th>ZIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Martin</td>
<td>Joe</td>
<td>233 Essex Lane</td>
<td>Rocky Mount</td>
<td>NC</td>
<td>27571</td>
</tr>
</tbody>
</table>

**LAB NUMBER**

<table>
<thead>
<tr>
<th>SAMPLE ID</th>
<th>CROP NAME</th>
<th>GROW STAGE</th>
<th>WEEK</th>
<th>PLANT PART</th>
<th>SOIL</th>
<th>CORRESPONDING SAMPLE ID</th>
<th>PLANT APPEARANCE</th>
<th>FERTILIZER HISTORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-1</td>
<td>BAD</td>
<td>B</td>
<td>M</td>
<td>U</td>
<td>BAD</td>
<td>yellow/stunted</td>
<td></td>
<td>Preplant: 5/15</td>
</tr>
<tr>
<td>2</td>
<td>GOOD</td>
<td>B</td>
<td>M</td>
<td>U</td>
<td>GOOD</td>
<td>healthy</td>
<td></td>
<td>Postplant: weekly</td>
</tr>
<tr>
<td>3</td>
<td>FIELD2</td>
<td>E</td>
<td>3</td>
<td>M</td>
<td>U</td>
<td>x</td>
<td></td>
<td>Micronutrient: 6/15</td>
</tr>
</tbody>
</table>

**PROBLEM SAMPLE COMMENTS**

BAD: The yellowing is marginal with some scorching — tends to be on the older leaves, good fruit food, have harvested one time.

---

**Growing Conditions**

- Planting date: May 15
- How long have symptoms been present?: 5 days
- Are plants infected with disease?: Yes
- Are plants infected with insects?: No
- Environmental conditions in last three weeks:
  - Soil: Below normal
  - Temperature: Normal
  - Irrigation amounts: 0.5"/day
- Fungicides used: Date:

---

**Thank you for using agronomic services to manage nutrients and safeguard environmental quality. — Steve Troxler, Commissioner of Agriculture**
Plant Part Codes

M — most recent mature leaf
   (appropriate code for most plants)

T — top three inches of growth

W — whole plant (collected from about 1” above soil)

E — ear leaf

H — harvest leaf (specific to tobacco)

P — petioles only (specific to vinifera grapes)
Position Codes

U — upper (appropriate code for most plants)
M — middle
L — lower
Plant Part & Position

<table>
<thead>
<tr>
<th>SAMPLE ID</th>
<th>CROP NAME</th>
<th>GROWTH STAGE</th>
<th>WEEK</th>
<th>PLANT PART</th>
<th>PLANT POSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAD</td>
<td>Trellis Tomato</td>
<td>B</td>
<td></td>
<td>M</td>
<td>U</td>
</tr>
<tr>
<td>GOOD</td>
<td>Trellis Tomato</td>
<td>B</td>
<td></td>
<td>M</td>
<td>U</td>
</tr>
<tr>
<td>FIELD2</td>
<td>Cotton</td>
<td>E 3</td>
<td></td>
<td>M</td>
<td>U</td>
</tr>
</tbody>
</table>

Note that the correct plant part for all three samples is М (most recent mature leaf) even though the cotton sample will include petioles as well.
# Corresponding Sample IDs

![Image of a document with sample information]

<table>
<thead>
<tr>
<th>Lab Number</th>
<th>Sample ID</th>
<th>Crop Name</th>
<th>Growth Stage</th>
<th>Plant Part</th>
<th>Planting Date</th>
<th>Soil Problem</th>
<th>Soil Solution</th>
<th>Plant Appearance</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BAD</td>
<td>Trellis Tomato</td>
<td>B</td>
<td>M</td>
<td>U</td>
<td>BAD</td>
<td></td>
<td>yellow/stunted</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>GOOD</td>
<td>Trellis Tomato</td>
<td>B</td>
<td>M</td>
<td>U</td>
<td>GOOODT</td>
<td></td>
<td>healthy</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>FIELD2</td>
<td>Cotton</td>
<td>E</td>
<td>3</td>
<td>M</td>
<td></td>
<td></td>
<td>x</td>
<td></td>
</tr>
</tbody>
</table>

- **Growing Conditions**: May 15
  - **Problem Sample Comments**: BAD: The yellowing is marginal with some scorching — tends to be on the older leaves; good fruit load, have harvested one time.

- **Fertilizer History**:
  - **Preplant**: 5/15, 10-10-10, 300 lb/A, broadcast
  - **Postplant**: Weekly, 13-0-44, 50 lb/A, 3 weeks
  - **Micronutrients**: 6/15, Sulphur, 1.25 lb/A, foliage

---

*Thank you for using agronomic services to manage nutrients and safeguard environmental quality. — Steve Troxler, Commissioner of Agriculture*
According to recommended practice, this client is submitting matching soil samples from the “good” and “bad” areas represented by the tissue samples. Corresponding samples provide additional information to help identify nutrient problems.
Plant Appearance

<table>
<thead>
<tr>
<th>SAMPLE ID</th>
<th>CROP NAME</th>
<th>GROWTH STAGE</th>
<th>WEEK</th>
<th>PLANT PART</th>
<th>PLANT POSITION</th>
<th>CORRESPONDING SAMPLE ID</th>
<th>PLANT APPEARANCE</th>
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</thead>
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<tr>
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<td></td>
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<td>U</td>
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<td></td>
<td>healthy</td>
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<tr>
<td>FIELD2</td>
<td>Cotton</td>
<td>E</td>
<td>3</td>
<td>M</td>
<td>U</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

BE SPECIFIC
Is the whole leaf yellow or is the yellow between the veins?
Are there necrotic (brown) spots or margins?
Are the symptoms in the top or bottom of the plant . . . in young or old leaves?
### Special Tests

---

**Special Tests Details**

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Grower</th>
<th>Consultant</th>
<th>County</th>
<th>Number of Samples</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-1</td>
<td>Joe</td>
<td>Stevens</td>
<td>Wake</td>
<td>3</td>
</tr>
</tbody>
</table>

**Plant Sample Information**

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Crop Name</th>
<th>Stage</th>
<th>Plant Part</th>
<th>Soil</th>
<th>Corresponding Sample ID</th>
<th>Plant Appearance</th>
<th>Special Tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Bad</td>
<td>B</td>
<td>M</td>
<td>U</td>
<td>BAD</td>
<td>yellow/stunted</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Good</td>
<td>B</td>
<td>M</td>
<td>U</td>
<td>GOOD</td>
<td>healthy</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Field2</td>
<td>E</td>
<td>3</td>
<td>M</td>
<td>U</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Growing Conditions**

- **Planting Date:** May 15
- **Symptoms:** Bad: The yellowing is marginal with some scorching — tends to be on the older leaves; good fruit load; have harvested one time.

**Fertilizer History**

- **Preplant:** 5/15
- **Postplant:** weekly
- **Micronutrients:** 6/15

---

*Thank you for using agronomic services to manage nutrients and safeguard environmental quality.* — Steve Troxier, Commissioner of Agriculture
Special Tests ($2 extra per sample)

- **Molybdenum test** — required for alfalfa, broccoli, cabbage, cauliflower, collards, kale, poinsettia, spinach & turnip greens

- **Chloride test** — useful (but not required) for flue-cured tobacco

- **Petiole nitrate test** — required for cotton & plasticulture strawberry
Include Relevant Details

- Information on growing conditions and fertilizer history helps agronomists provide more precise recommendations in all situations.

- For problem samples, a detailed description of the problem is valuable.
**PLANT SAMPLE INFORMATION**

- **PLANT ID**: A-1
- **Payment**: $17
- **Sample Date**: July 25
- **County**: Wake
- **Number of Samples**: 3
- **Grower Information**:
  - **Name**: Joe Farmer’s Produce
  - **Address**: 4 Backwoods Rd.
  - **City**: Rolesville, NC
  - **Phone**: (919) 834-0000
- **Consulalnt/Other Recipient**:
  - **Name**: Stevens Martin
  - **Address**: 233 Essex Lane
  - **City**: Rocky Mount, NC
  - **Phone**: (252) 972-0000
  - **Email**: mstevens@RAgroup.com
- **Crop Name and Growth Stage**:
  - **BAD**: Trellis Tomato (B M U BAD T yellow/stunted)
  - **GOOD**: Trellis Tomato (B M U GOOD T healthy)
  - **FIELD2**: Cotton (E 3 M U)
- **Growing Conditions**:
  - **Planting Date**: May 15
- **Problem Sample Comments**:
  - BAD: The yellowing is marginal with some scorching — tends to be on the older leaves; good fruit load; have harvested one time.

**Fertilizer History**:
- **Preplant**: 5/15 10-10-10 300 lb/A broadcast
- **Postplant**: weekly 1-3-0-44 50 lb/A 3 weeks
- **Micronutrient**: 6/15 Solubor 1.25 lb/A foliar
- **Other**:

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

Clients who submit lots of samples each year may want to contact the Division to set up an escrow account.

$5 for each of the three samples + $2 for the special petiole nitrate test for cotton

Cotton

---

Payment

**FEE TOTAL: $17**

**AMT PAID: ________**

**METHOD OF PAYMENT**

- [ ] CASH
- [x] CHECK (payable to NCDA&CS)
- [ ] MONEY ORDER
- [x] ESCROW (provide account name below)

**Farmer's Produce**
Completed *Plant Sample Information* forms provide a useful record of crop management history.

They also serve as a reminder of how your information appears in the NCDA&CS Agronomic Division database. Remember, when searching for your online report, you must enter your name exactly as you provided it on the sample information form.
If you have questions . . .

- Refer to the instructions on the back of the *Plant Sample Information* form.

- Ask your NCDA&CS regional agronomist. Contact information is available online at [www.ncagr.gov/agronomi/rahome.htm](http://www.ncagr.gov/agronomi/rahome.htm).

- Contact the NCDA&CS Plant/Waste/Solution/Media Section agronomist at 919.733.2655.