

Charlie Jones
North Carolina

Investigation

- ▶ Possible Drift
- ▶ Tomato Grower
- ▶ Concerned about 40 Acres of Tomatoes
- ▶ Possible Auxin Damage

Who assessed the damage

- ▶ Regional Agronomist
- ▶ Pesticide Inspectors
- ▶ Landowner
- ▶ Weed Scientist NCSU

Photographs of Damage



Photographs of Damage



Photographs of Damage



Photograph of Damage





Graham Rd

Field D3

Mooresville Rd

150

1547

Lipe Rd

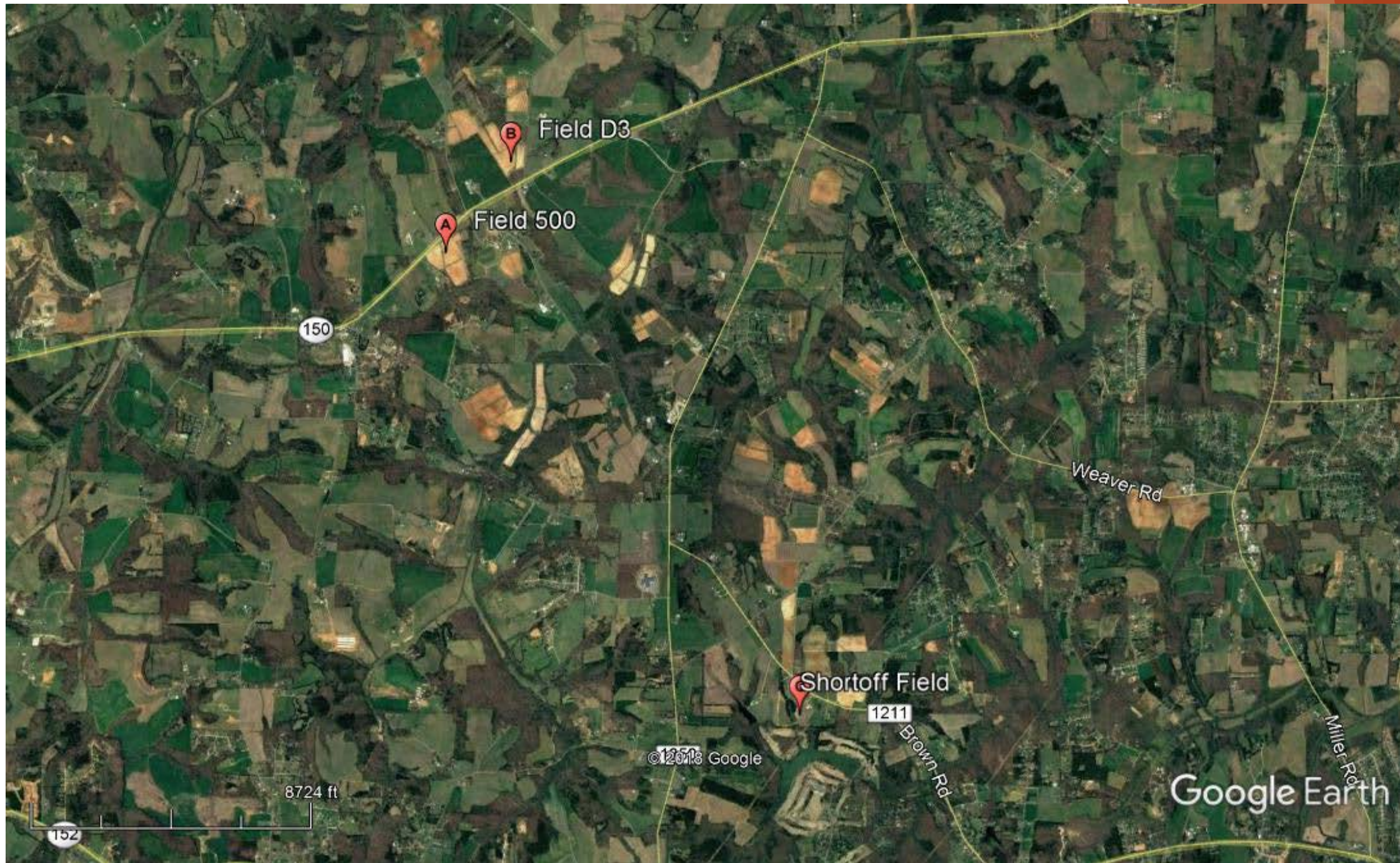
Field 500

Caldwell Rd

1825 ft

© 2018 Google

Google Earth



Field D3

Field 500

Shortoff Field

150

1211

Weaver Rd

© 2018 Google

Brown Rd

Miller Rd

Google Earth

8724 ft

152

Photographs of Samples



Photographs of Samples



Photographs of Samples



Photographs of Samples



Auxin Concerns

- ▶ Lots of specialty crops (grapes, tomatoes, tobacco, soybeans, cotton....)
- ▶ Smaller field sizes
- ▶ Lots of neighbors

MAP LEGEND

Patterson Farm Inc. Inv
IR 2018-048
Attachment B
7-10-18
EB

P Patterson Farm Inc. Fields

1 Moore Farm

1A Fescue Hay Field – No pesticides applied

1B Soybeans - Liberty Variety

6-28-18 1 qt. Forfeit 280, 29 oz Prefix & 7 oz Section Three
5-31-18 1 qt. Forfeit 280, 35 oz Roundup PowerMax, 6 oz Zidua Pro

1C Soybeans - Various combinations of Roundup PowerMax, Zidua Pro, Prefix
and Buccaneer Plus

1D Corn – 05-15-18 2 qt Atrazine & 3.5 oz Status

1E Corn – 05-21-18 22 oz Roundup PowerMax & 3 oz Status

2 Ron Corriher – Pasture – No Pesticides Applied

3 Steve Campbell – Farm Specialties - No Xtend Soybeans or Cotton

3A Soybeans – 3 pts. Buccaneer Plus & .3 oz First Rate

3B Cotton – 06-01-18 Roundup PowerMax

3C Corn - .75 lb. Atrazine & .5 lb. Steadfast Q

4 Eddie Mills – Soybeans

05-01-18 1 qt. Roundup PowerMax
Second Application – 40 oz. Gramoxone SL 2.0 & 4 oz. Envive

5 Todd Mauldin – Pasture & Hay Fields

03-20-18 Spot Sprayed Crossbow on Sloan Road near Mooresville Road

6 C & H Grain

6A Soybeans – Xtend Variety 06-20-18 12.5 oz. Engenia & Roundup
PowerMax

6B Soybeans – Roundup PowerMax

6C Corn – Roundup PowerMax, Leadoff and Callisto

7 Andrew Corriher – Corriher Brothers Dairy

7A Soybeans – 1 qt. Roundup PowerMax

7B Corn – 1 qt. Atrazine, 5 oz. Status, 1.5 oz. Steadfast Q

8 Andrew Corriher for Benjamin Watts

Fallow Land – 12.8 oz. Engenia

9 Jason Smith

Soybeans – 1st Application – 28 oz. Roundup PowerMax & 4 oz. Authority
06-15-18 – 28 oz. Roundup PowerMax

9A Soybeans - 28 oz. Roundup PowerMax

9B Corn – 04-13-18 Gramoxone SL 2.0

05-09-18 1qt. Atrazine & Halex GT

9C Pasture – No Pesticides Applied

10 Alan Reynolds

Soybeans – Roundup PowerMax, Envive & Harmony SG

10A Corn – Roundup PowerMax & Harmony SG

11 Braxton Barger

Soybeans – Roundup Ready

12 Murray Corriher

Pasture – Nothing Applied

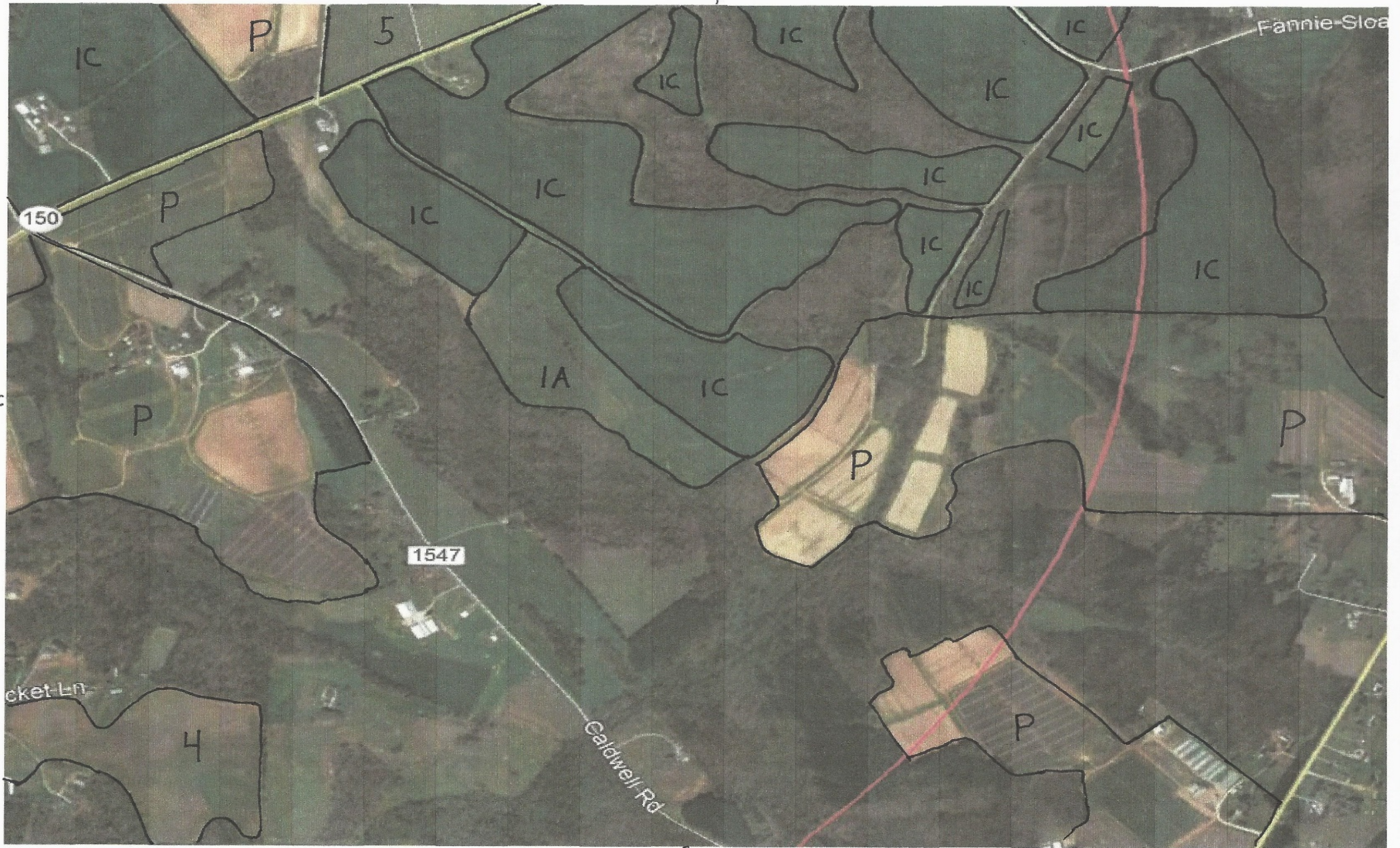
12A Fallow Land

13 Jonathan Beaver

Soybeans – Roundup PowerMax & Prefix

14 Rodney Anderson

Soybeans – No Xtend Soybeans



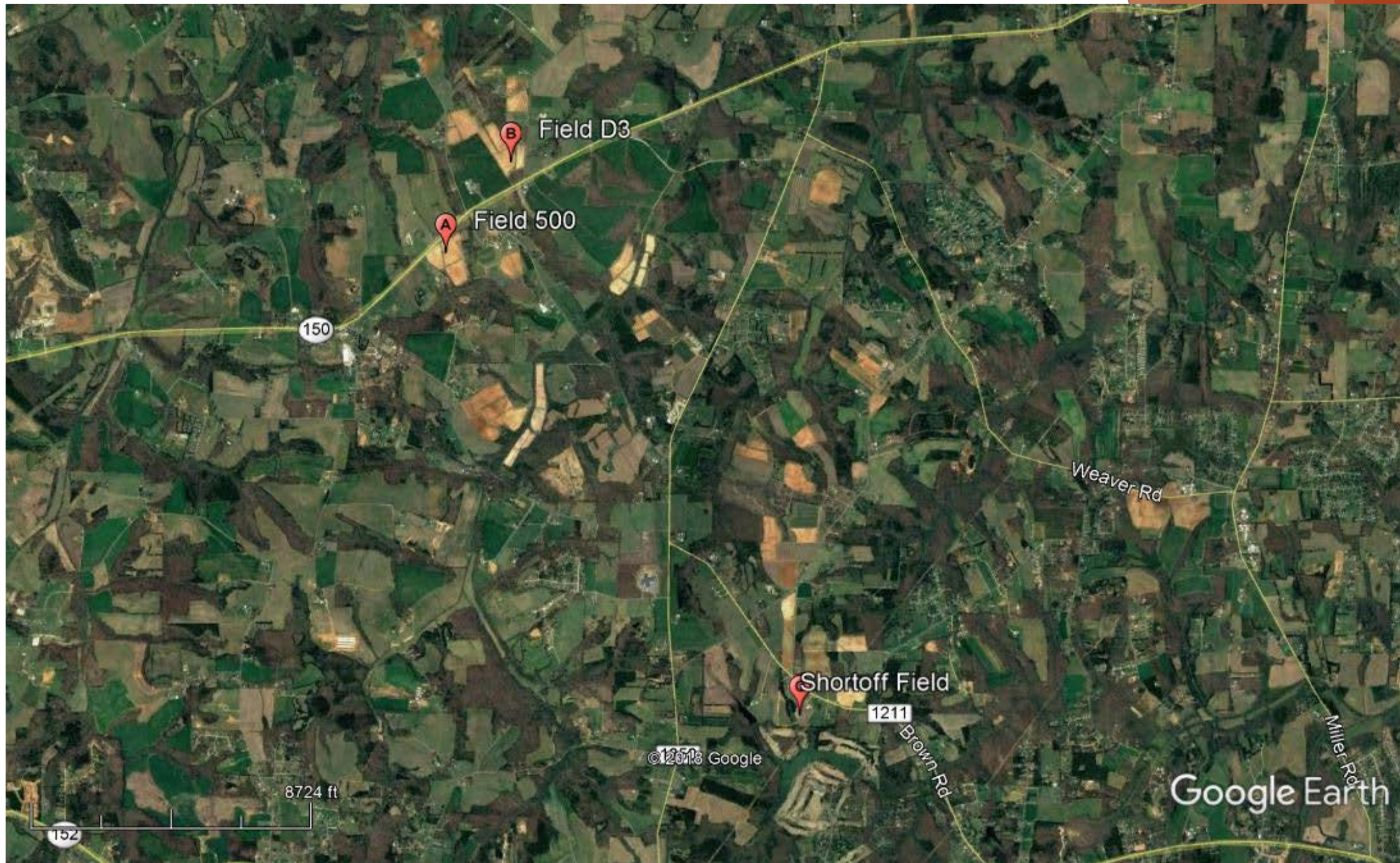


Number of fields/farmers

- ▶ 30 different fields
- ▶ 12 different applicators

Auxin Applications

- ▶ Crossbow applied across from one field before the plastic was placed into the field
- ▶ Engenia was applied 3000 yards from fields D-1 and 500 on June 20th
- ▶ No auxin use near the shortoff fields in the south around the time of damage



Field D3

Field 500

Shortoff Field

Weaver Rd

Brown Rd

Miller Rd

8724 ft

Google Earth

© 2018 Google

150

1211

152

Signs that it might not be drift

- ▶ No damage to Liberty or Round-up beans located close to tomatoes
- ▶ No damage to surrounding vegetation
- ▶ Staggered time frames of damage.
First damage was 6 weeks before last
- ▶ Private lab results returned with ND

Lab Results (finally!!!) August 23

EB-036 **vegetation** **Amount Found**

Phenoxy Scan ND

EB-037 **water** **Amount Found**

Clopyralid 2.71 ppb

Phenoxy Scan ND

EB-038 **water** **Amount Found**

Clopyralid 3.30 ppb

Phenoxy Scan ND

EB-043 **vegetation** **Amount Found**

What does it mean?

- ▶ Stinger Herbicide has a 24 c label for strawberries in NC.
- ▶ Was used on adjacent fields
- ▶ Runoff due to wet spring
- ▶ Contaminated water was used to irrigate the tomatoes
- ▶ Build up over time had delayed damage

Lessons learned

- ▶ Trust your gut
- ▶ Ask plenty of questions
- ▶ Faster lab turn around