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Seminole Crop News

Atrazine Resistant Pigweed

January 28, 2014

[Atrazine-Resistant Palmer Amaranth Confirmed in Berrien County \(Prostko and Vencill\)](#)

Dr. Eric Prostko, UGA Extension Weed Scientist reports that plants from a recently collected Palmer amaranth seed sample, submitted by Berrien County Georgia Extension Agent Eddie Beasley, have been confirmed to be resistant to atrazine (Figure 1). This population was also resistant to glyphosate but not Staple (pyrithiobac).

The discovery of atrazine-resistance (AR) in Berrien County is potentially very important since this seed sample was collected from a row-crop production region (i.e. not a dairy production region). As far as we can tell at this point, the field in question was continuous corn for at least 10 years. This would suggest that the AR evolved via selection pressure rather than pollen flow or physical seed movement.

There are a couple of positives here. Firstly, 5 lbs/A (same as 5 quarts of 4L) of atrazine controlled these plants which would indicate that the level of resistance is low (2X) in comparison to what we have observed with glyphosate (6-8X). Secondly, this population was controlled with Evik (ametryn), another member of the triazine herbicide family. This confirms results from our previous research which suggested that AR in Georgia is metabolism based rather than target-site based.

How do we plan to address this issue? In 2013, Dr. Vencill and several County Extension Agents collected various weed seeds from numerous locations across Georgia. These weeds are now being screened for resistance to multiple herbicides, including atrazine. Also, we are planning to collect additional Palmer amaranth seed this summer in the major corn growing counties. The plants grown from these seed samples will be screened by Dr. Vencill for resistance to atrazine.

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Although this recent discovery is alarming, we do not think that it necessarily means that AR is widespread. Results from the above mentioned surveys will answer this question. At this point in time, growers using normal crop rotations likely need not worry about AR. Fortunately, numerous other herbicides can be used in field corn to effectively control Palmer amaranth (Armezon, Callisto, Capreno, Dual Magnum, Impact, Laudis, Liberty, Realm Q, Status, Warrant, and Zidua).

Refer to page 155 of the 2014 UGA Pest Control Handbook for specific recommendations regarding the control of GR-ALS-AR-Palmer amaranth in Georgia field corn (<http://www.ent.uga.edu/pmh/Comm-Field-Corn.pdf>).

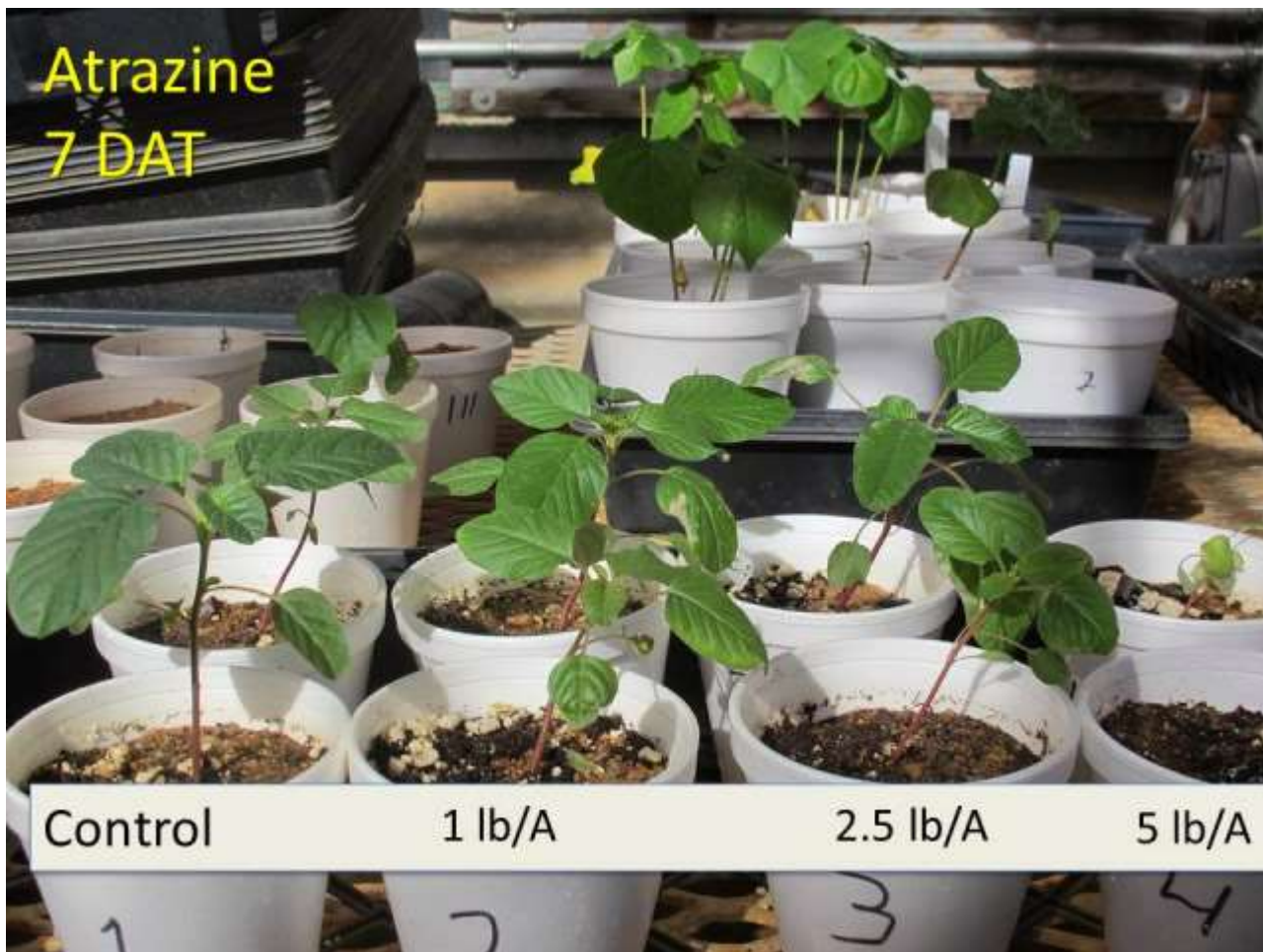


Figure 1. 2013 Berrien County Palmer Amaranth Population Treated with 1, 2, and 5 lbs ai/A of Atrazine

Question of the Week – Wild pigs

January 29, 2014

A good many folks knew what was causing the damage to the wheat field, wild hogs. David Pearce of Jakin Peanut and Jimmy Laska of Dupont were some quick correct answers.

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Jimmy says ” Appears to be signs of the infamous “Sus scrofa domesticus”. AKA, hog, pig, piney wood rooter, razor back, South GA plague!”

Some of this damage was very fresh, plants just dug up, and I got an eerie feeling out in this remote field by myself at sunset, I think they were watching for me to leave.

The biological family that pigs belong to is the Suidae family. Is that why we sometimes call them by saying “Suu eee pig”?

This had been a peanut field last summer and there were a few peanuts still around that it looked like the pigs were digging and eating. I remember old timers talking about getting their swine out of their pens and hogging off peanut fields after harvest.



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This week I want to ask you what these plants are and what is going on here with them?



Wheat :Weeds and Tillering Video

January 29, 2014

Focus on Ag, is a TV segment on WTVY channel 4 out of Dothan Alabama. I was on there this week talking about wheat, weeds, tillering and fertilization and even primrose control in strip till cotton fields. Click on this link in green to see the 4 minute program.

<http://www.wtv.com/video?videoid=2765931>

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Canola

January 29, 2014

Canola is an oilseed we grow in winter. Here is Stephen Houston in his field in central Seminole county. He says the canola seems to be growing slowly due to the cold weather. Heat really affects the yield at blooming and pod set so a cool spring would better for good yields.

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We have a good UGA website with canola production information. Click on this link to go to the page below. <http://www.caes.uga.edu/commodities/fieldcrops/canola/>

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- ▼ CAES Home
- ▼ Commodities
- ▼ Field Crops
- ▼ **Canola**
 - Production Guide
 - 10 Steps Brochure
 - Growth Stages
 - Related Links
 - Canola Team
 - Statewide Variety Testing
 - Pest Management



Commodities: Field Crops

Canola

Welcome to the UGA canola website. Canola is an alternative winter crop that is well suited to Georgia growing conditions. It was produced commercially in the Southeast during the mid-1990s. Interest in biofuels has renewed interest in commercial production of canola in Georgia.

This site provides updated information on various aspects of canola production, marketing and economics. Here you can find the Canola Production in Georgia (production guide), Ten Steps to Profitable Canola (brochure), Canola Growth Stages, links to Variety Testing, Pest Control Recommendations, and other canola web site information. In the future we plan to post canola team presentations targeting specific aspects of canola production.

Miller County Production Meetings

January 31, 2014

NOTICE: Upcoming Miller County Crop Production Meetings

Peanut Production Meeting (Don't forget we have an early start at 10 a.m.)

Date: Tuesday, February 4th @ 10:00 a.m. (Lunch served after the meeting)

Where: Moby Dick Restaurant

Speakers: Dr. Bob Kemerait, UGA Extension Plant Pathologist

Rome Ethredge, Interim Miller County CEC

Cotton Production Meeting

Date: Monday, February 10th at 12:00 Noon

Where: Moby Dick Restaurant

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Speakers: Guy Collins, UGA Extension Agronomist

Phillip Roberts, UGA Extension Entomologist

Please RSVP if you plan to attend either of these meetings.

229-758-4106 or uge4201@uga.edu

*****Pesticide license credit private or commercial of 1 hour will be given*****

UGA Pest Control Handbook 2014

January 30, 2014

The 2014 Georgia Pest Control handbook - is available online here: <http://www.ent.uga.edu/pmh/>

I have a link to the handbook on the left side of my blog so you can link to it anytime.

COPIES ARE AVAILABLE of the Commercial Edition for \$35.00 EACH. Please make check or money order payable to the UNIVERSITY OF GEORGIA Include your name, street address (UPS will not deliver to a Post Office Box), city, state and zip code and send to:

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Later,

A handwritten signature in blue ink that reads "Rome Ethridge". The signature is written in a cursive style with a large, stylized "R" and "E".

Rome

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