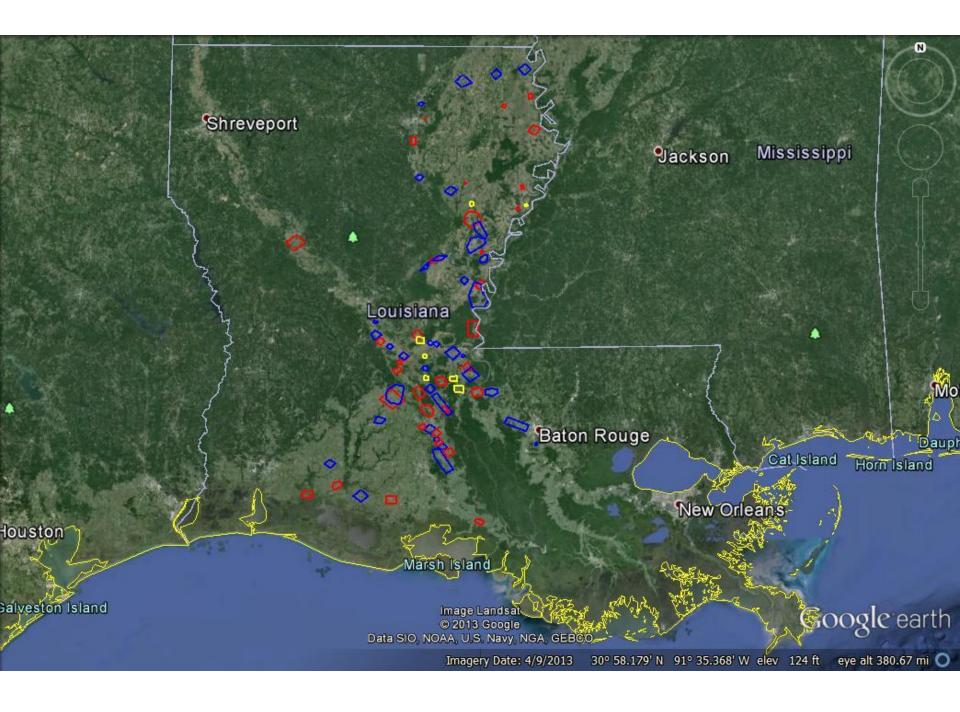
Soybean Disease Update



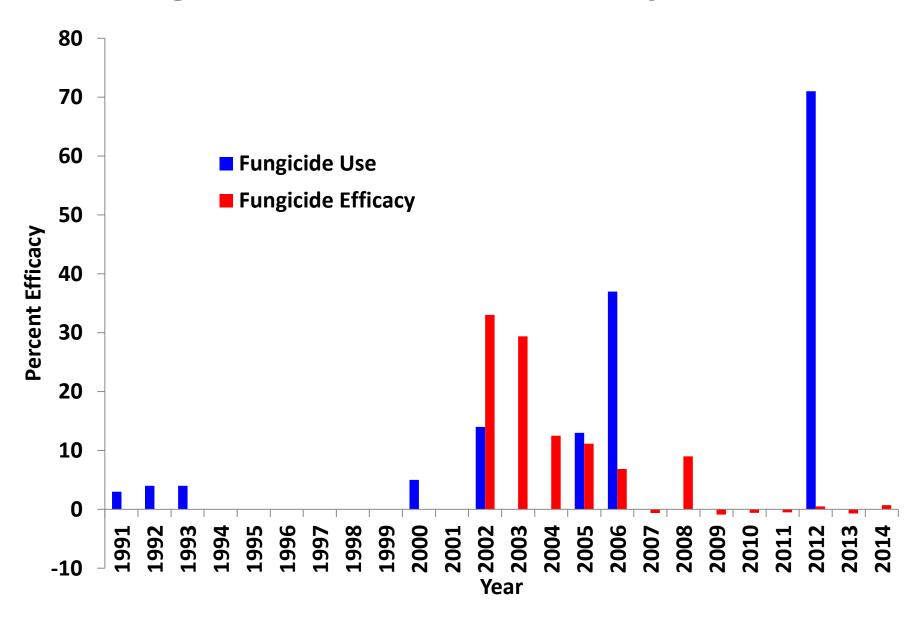
Trey Price - pprice@agcenter.lsu.edu
318-238-9805 @ppp_trey



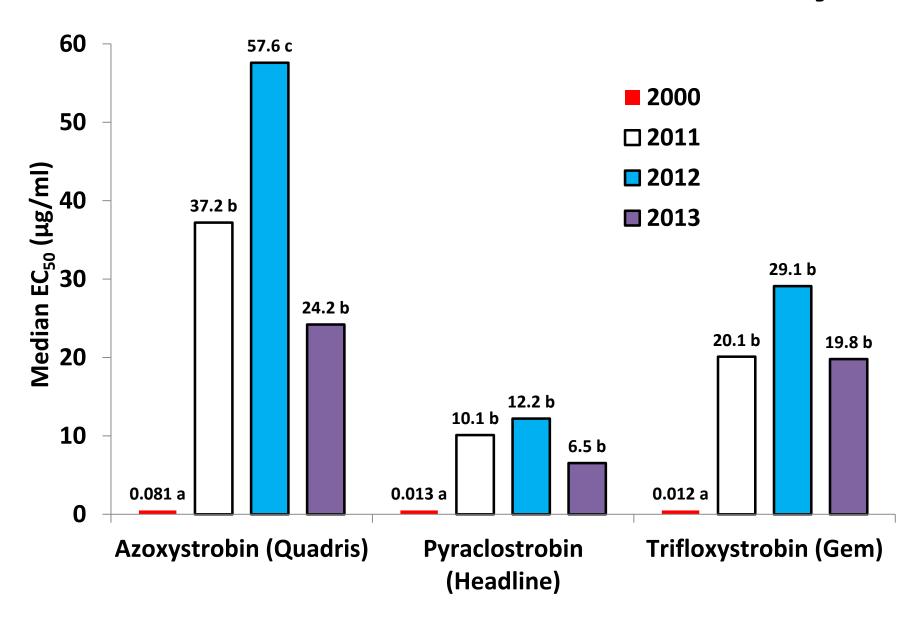




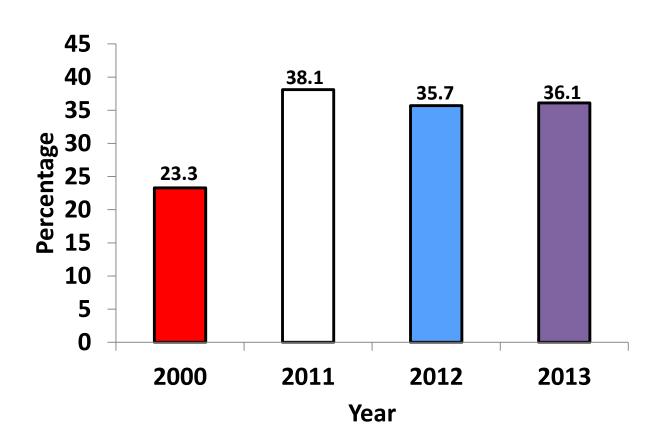
Fungicide Use and Efficacy on CLB



Strobilurin Resistance Summary



Thiophanate-methyl Resistance



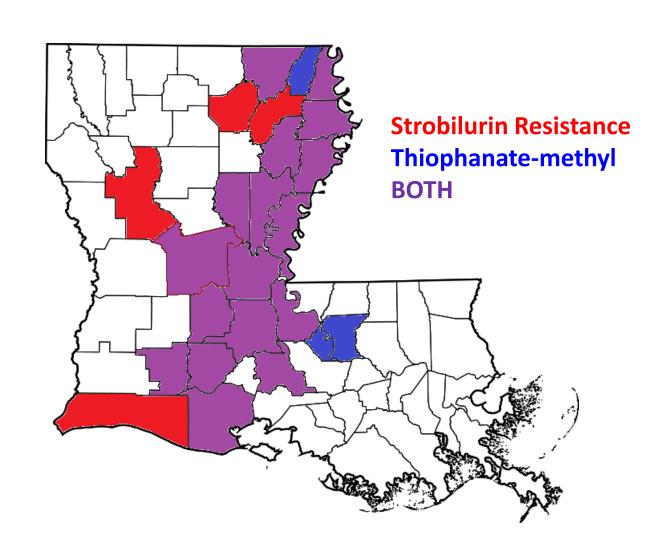
Cercospora Leaf Blight – Fungicide Resistance

~88% resistant to strobilurins

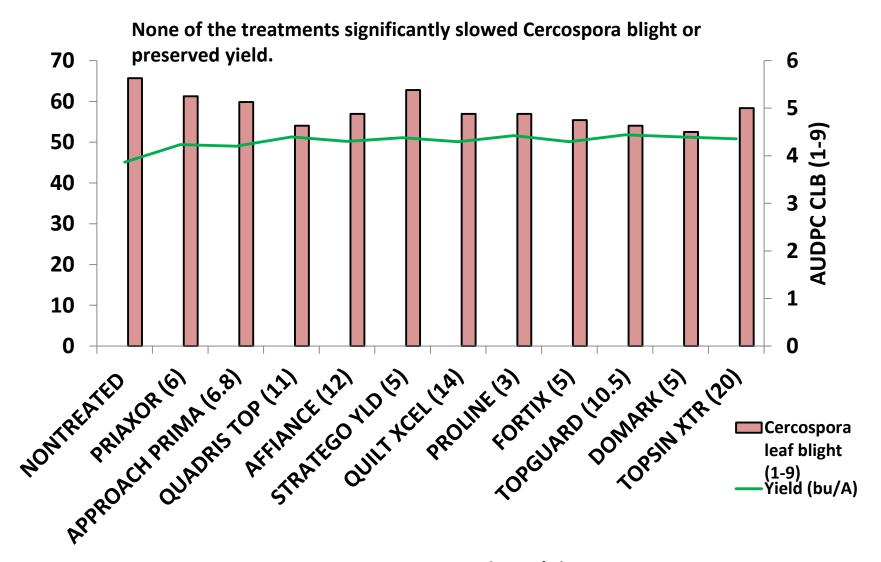
~35% resistant to thiophanate-methyl

Currently monitoring triazoles.

Have initiated SDHI work.



CLB Fungicide Screening - DLRS

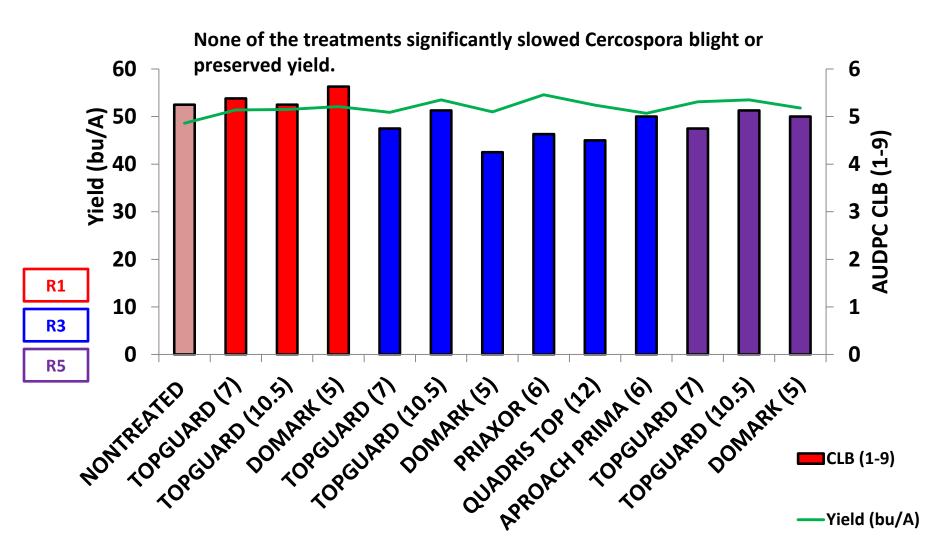


All applications at R3. Product rates in parentheses (fl oz/A). AUDPC = Average of three disease ratings.

Variety: PI 95Y61

DLSB1403

Application Timing Trial – DLRS

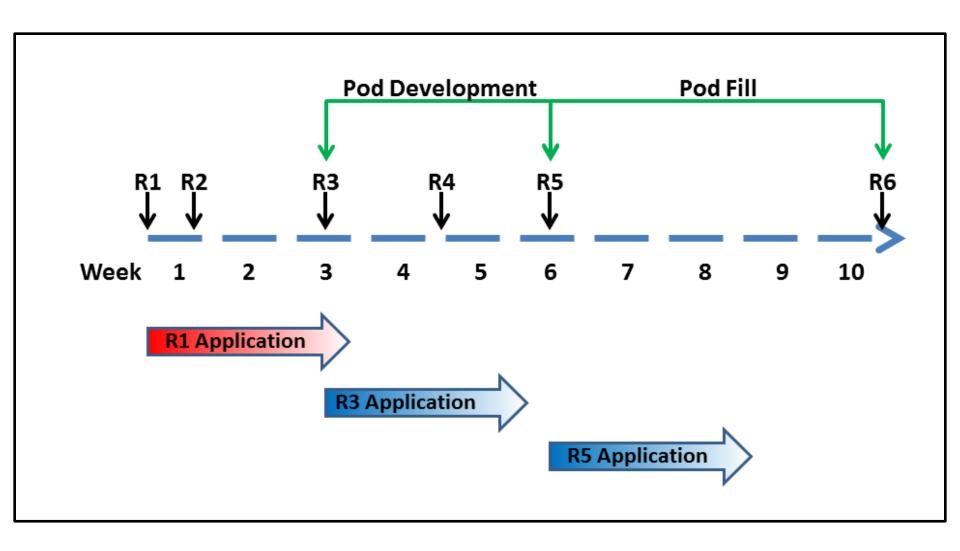


Various application timings. Product rates in parentheses (fl oz/A). AUDPC = Average of three disease ratings.

Variety: PI 95Y61

DLSB1402

Timing Considerations



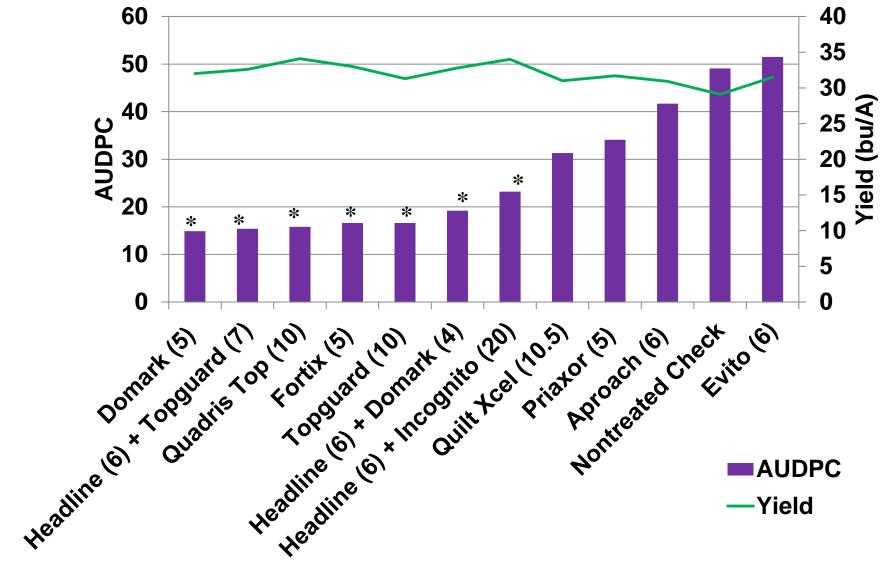
Strobilurin Resistance in *C. sojina -* (Frogeye leaf spot)

Cooperators – Carl Bradley, University of Illinois

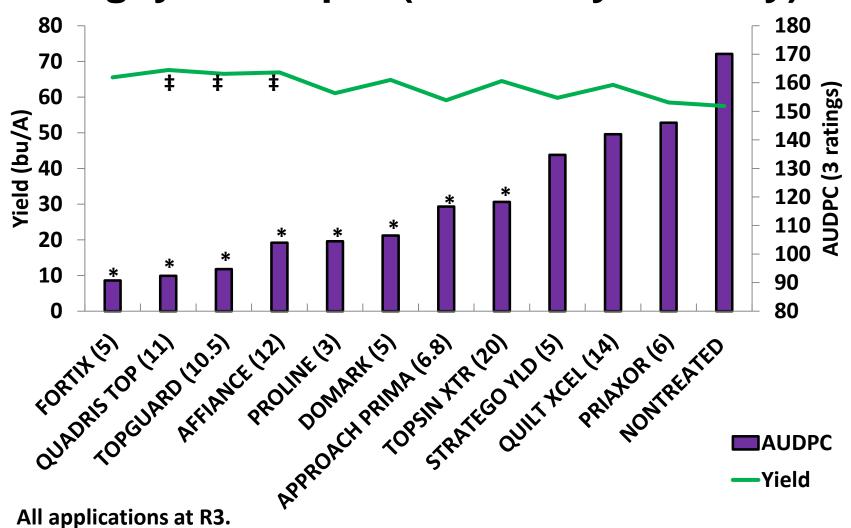
Tom Allen/Jeff Standish
- Mississippi State
University



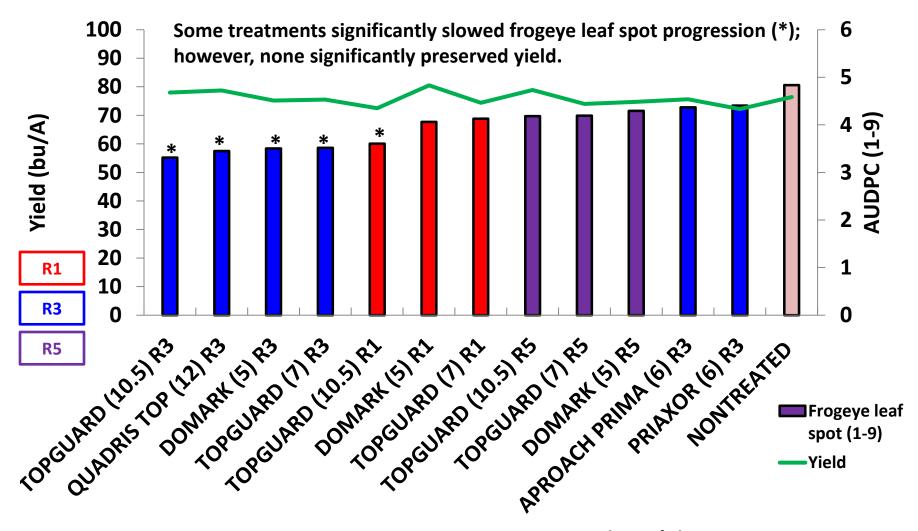
Fungicide Trial, Alexandria, LA 2013 Frogeye leaf spot (ranked by severity)



Fungicide Trial, St. Joseph, LA, 2014 – Frogeye leaf spot (ranked by severity)



Fungicide Timing Trial - NERS (ranked by severity)



Various application timings. Product rates in parentheses (fl oz/A). AUDPC = Average of three disease ratings.

Variety: PI 95Y61

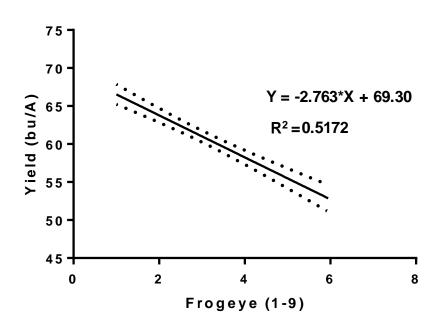
NESB1401

Variety Trials – NERS 2014

Variety	Frogeye (1-9)	Yield (bu/A)	Rank
C4544R2	1	65.6	19
5N451R2	1	65.4	21
REV 49R94	1	67.8	8
REV 48R44	1	68.7	3
REV 47R34	1	67.2	13
REV 47R53	1	67.7	9
HALO 4:94 LL	1	69.1	2
S47-K5	1	70.5	1
P 4928 LL	1	63.9	40
AG 4632	1	64.4	36

Variety	Frogeye (1-9)	Yield (bu/A)	Rank
AX4470	5	53.8	89
46X04	5	56.5	78
AG 4934	5	54.7	85
AX4490	5.3	49.2	97
AG 4531	5.3	57.5	73
S09-6262	5.3	45.2	100

Top 10 Frogeye Resistant Varieties



P4540R%S = Delta King 4744 = Afmor 48R40 ← Croplan R2IG 799Se → Dyna Gpoi BICRXA7eties

DG 4930 RR2 5.7 49.7 AND98 THERS

 DG 4930 RR2
 5.7
 49.7 AND98

 R08-2797
 5.7
 46.5
 99

 48X34
 6
 50
 96

Estimated losses up to 18% in this trial.

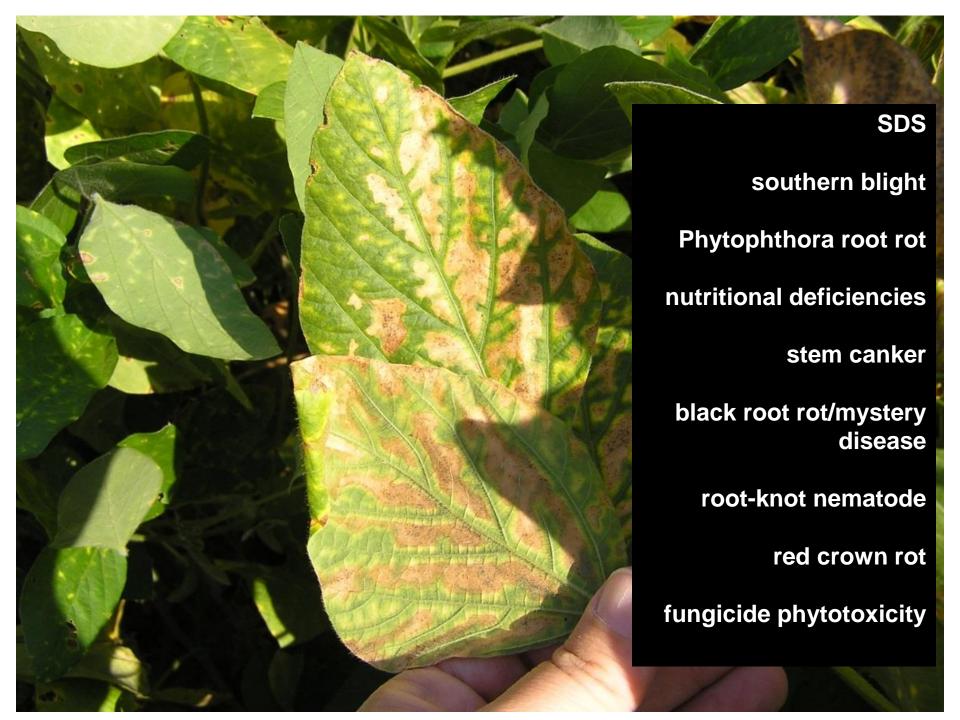
Foliar Disease Recommendations

- ✓ Unfortunately, no consistent products for Cercospora blight
- ✓ Triazoles are effective on frogeye (some more than others)
- ✓ Maybe CLB tolerant varieties in the pipeline?
- ✓ Plant frogeye-resistant varieties!
- ✓ Early planting date (early soybeans usually escape CLB)
- ✓ Don't use reduced rates of fungicides
- √ Good coverage is key (nozzles, pressure, total volume, etc...)
- **✓** Rotate chemistry types (this is a good practice with ALL pesticides)
- ✓ Avoid unnecessary applications!





- Rhizoctonia, Pythium, Phytophthora, Fusarium, and others
- Cool, wet conditions soon after planting
- Seed treatments are effective
- Most of the time, seed treatments increase stand
- Usually do not result in significantly preserved yield





SDSCooperator – Raj Singh

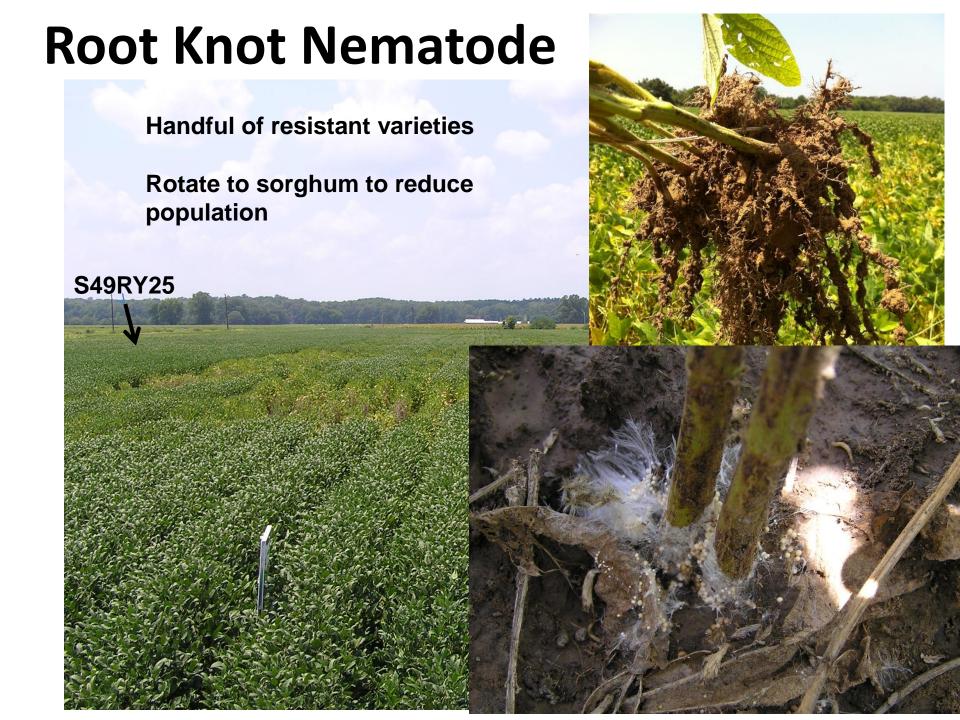
Suspected for many years

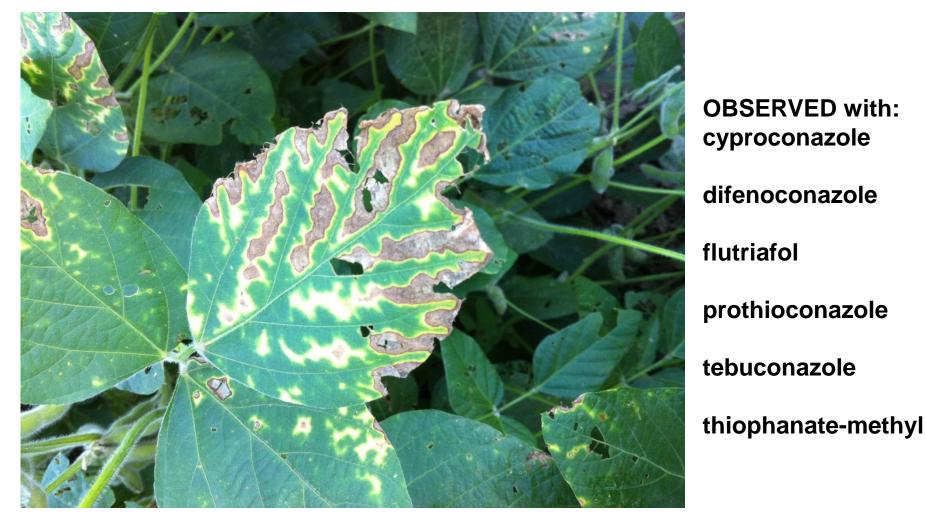
Confirmed in East Carroll in 2014

Not a major issue in LA, but worth monitoring (major issue up north).

Have isolates of the pathogen and planning to screen varieties







OBSERVED with: cyproconazole difenoconazole flutriafol prothioconazole tebuconazole

Fungicide Phytotoxicity

Increased chance if fungicides are applied during the heat of the day.

Most of the time, cosmetic issue

Black Root Rot ("Mystery Disease")



Black Root Rot ("Mystery Disease")





- Prevalent in no-till
- Soybean monoculture
- Suspected seedborne
- Suspected debris borne
- Cultivation and/or rotation may help

Black Root Rot ("Mystery Disease")



pathogen

Working to confirm pathogenicity

May be resistant varieties?

Thanks to all Collaborators!

Producers

Agents

Consultants

Industry

Dan Fromme

Josh Lofton

Beatrix Haggard

David Kerns

Scott Washam

Raj Singh

Eduardo Chagas

Clark Robertson

Clayton Hollier

Todd Yelverton

Ralph Sheppard

Charlie Overstreet

Boyd Padgett

John Stapp

Myra Purvis

Brandi Woolam

Randall Landry

Hunter Pruitt

Jerry Bartleson

Warren Ratcliff

Darrell Franks

Daniel Stephenson

Donnie Miller

Rick Mascagni

Steve Harrison

Kelly Arceneaux

Ray Schneider

Sebastian Albu

Don Groth

Tom Allen

Jeff Standish



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