

Disease Management Update

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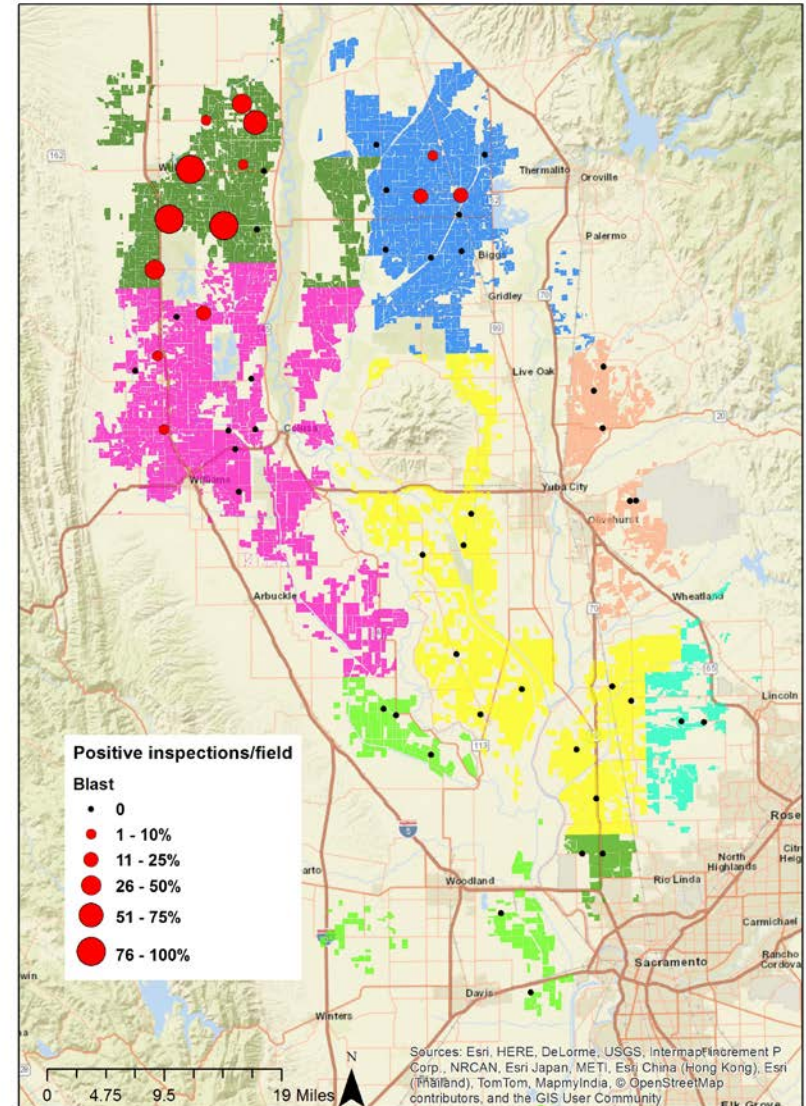
Rice Farming Systems Advisor

University of California Cooperative Extension

2020 UCCE Rice Grower Meetings

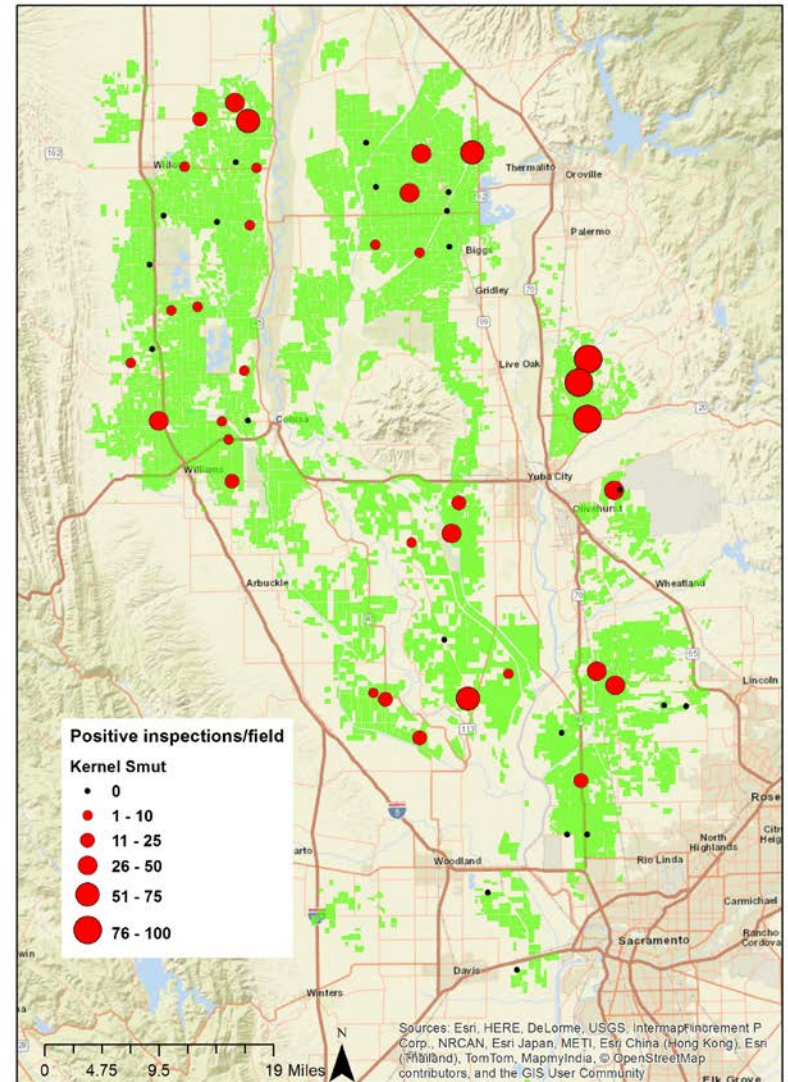
2019 Season

- Blast in Butte, Glenn, and Colusa Counties
- Kernel smut not an issue in medium grains



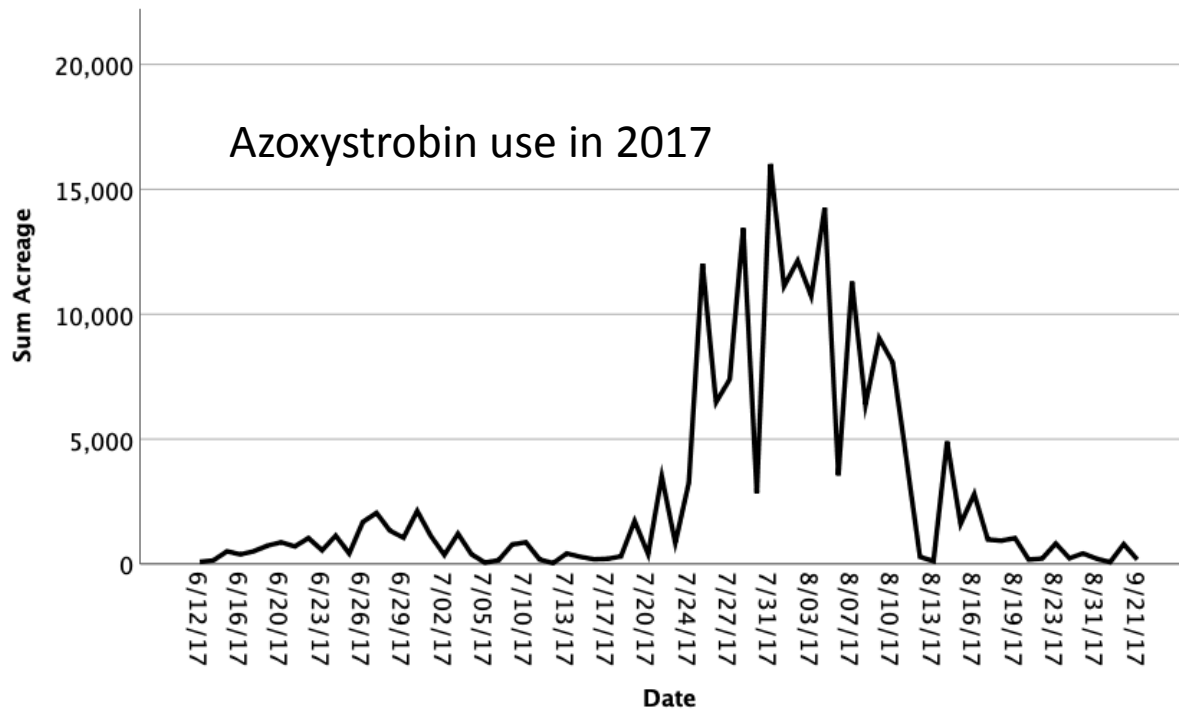
2019 Season

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Fungicide Trials

- Previous years trials:
 - Propanil time vs. early heading: early heading is better



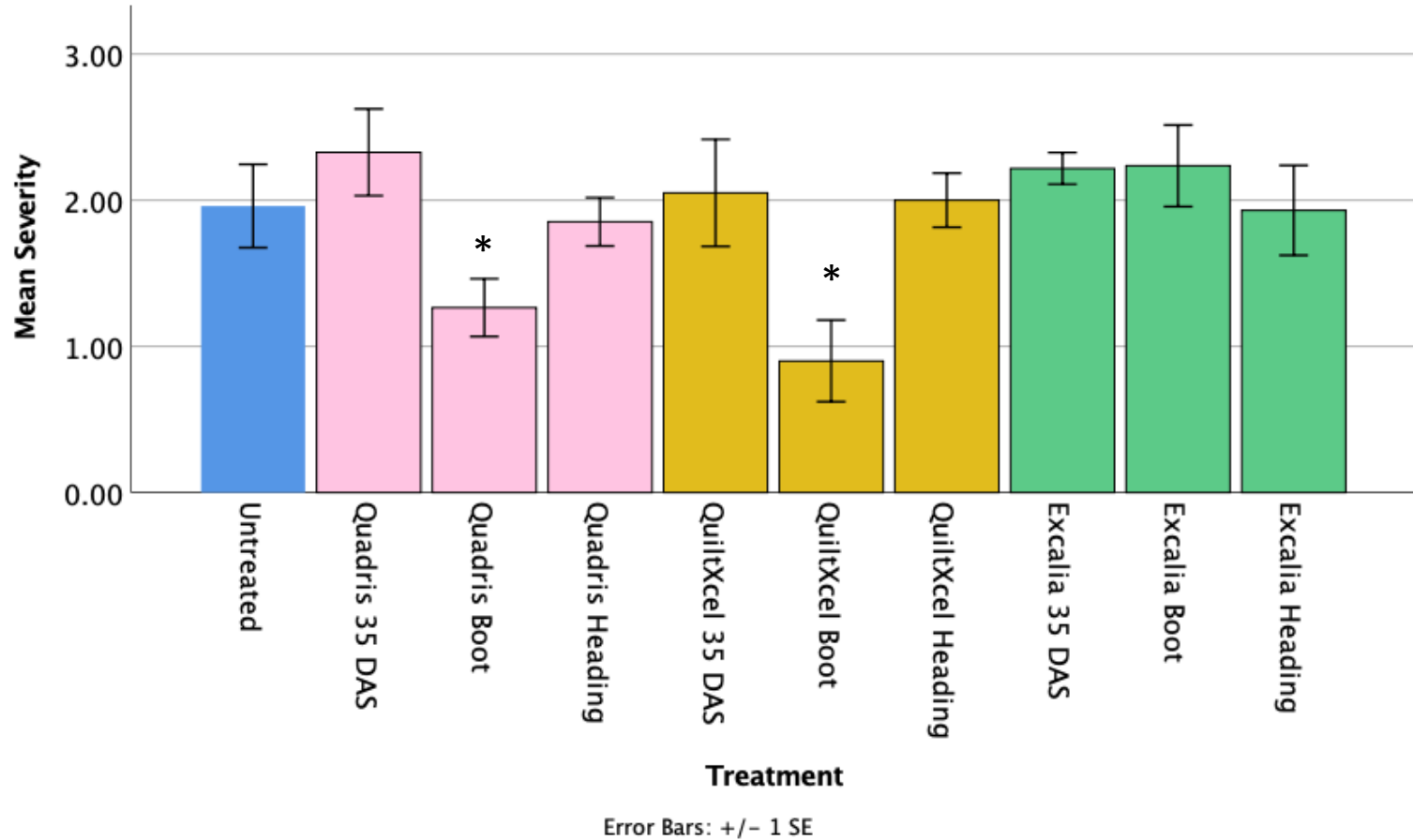
Fungicide Trials

- Three timings: 35 DAS, mid boot, heading

Product	Active Ingredients	Rate/a
Quadris	Azoxystrobin	15.5 oz
QuiltXcel	Azoxystrobin + propiconazole	27 oz
Stratego	Trifloxystrobin + propiconazole	19 oz
Excalia	Inpyrfluxam	2 oz

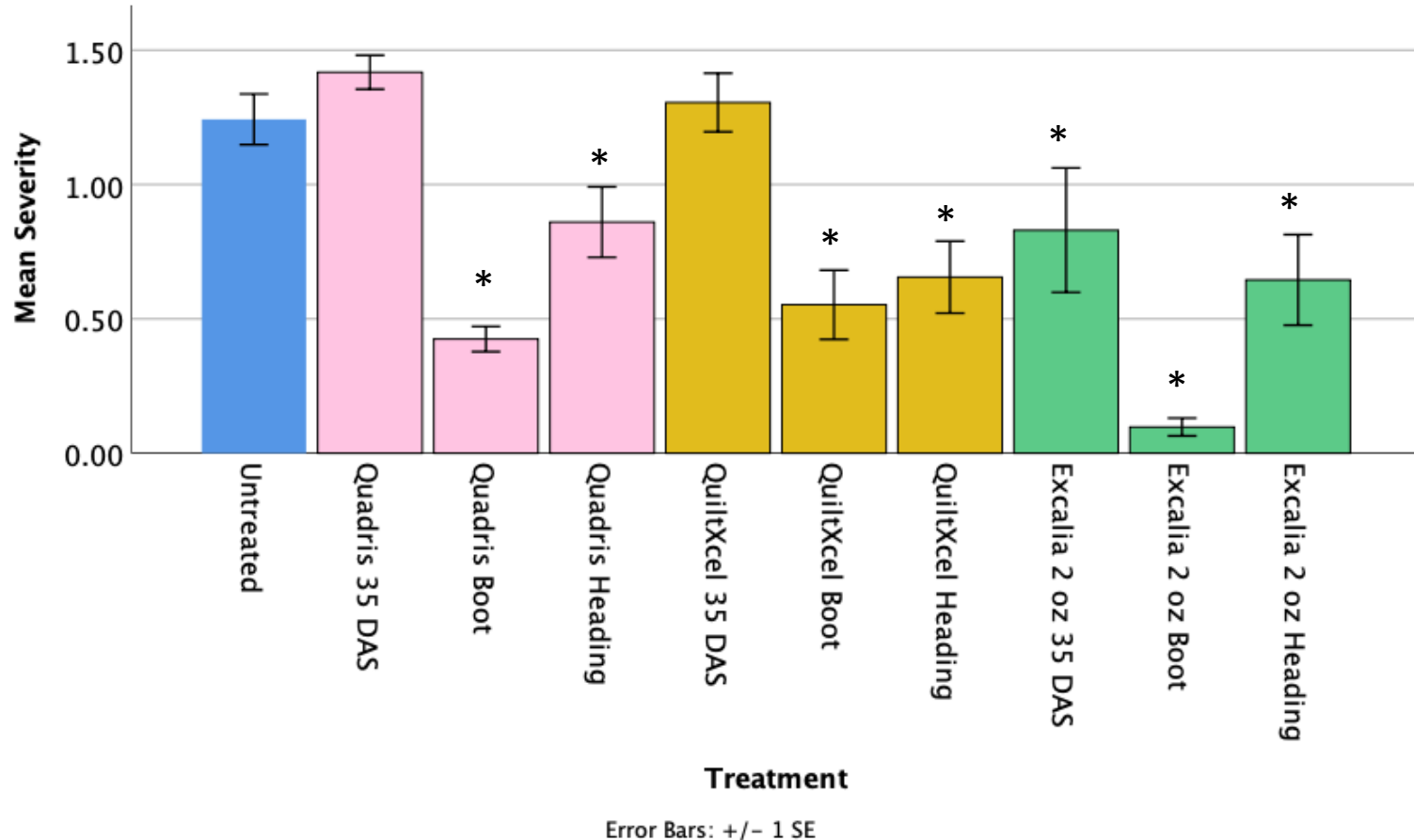
Stem Rot

- Planted 6/15
- M-206
- Heading app. at 50% heading



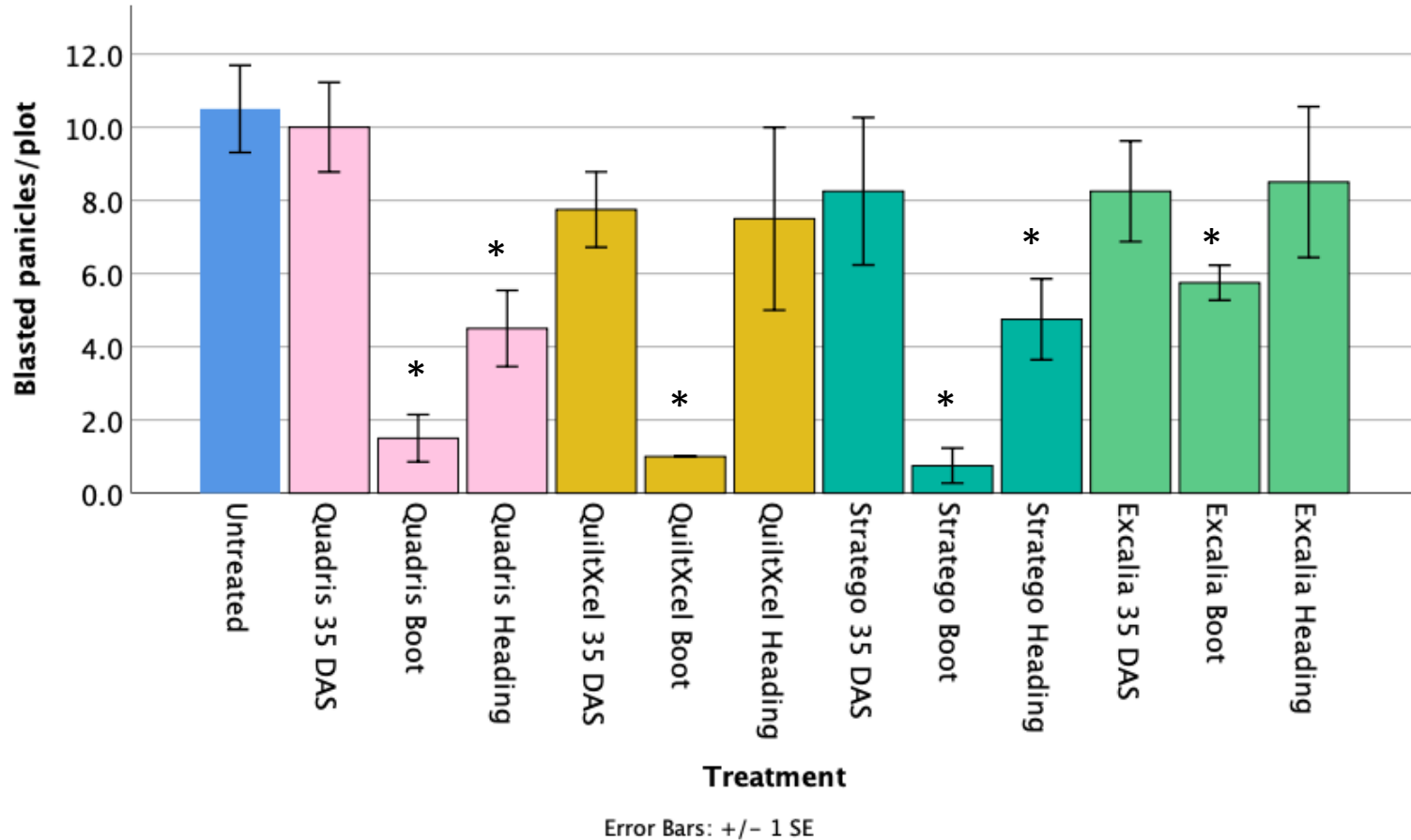
Aggregate Sheath Spot

- Planted 5/28
- M-206
- Heading app at 100% heading



Blast

- Planted 5/17
- M-206
- Heading app 100% heading



Fungicide Trials - Conclusions

- Applications at boot reduced the severity of stem rot, aggregate sheath spot, and blast
- Timing of application is critical

Kernel Smut

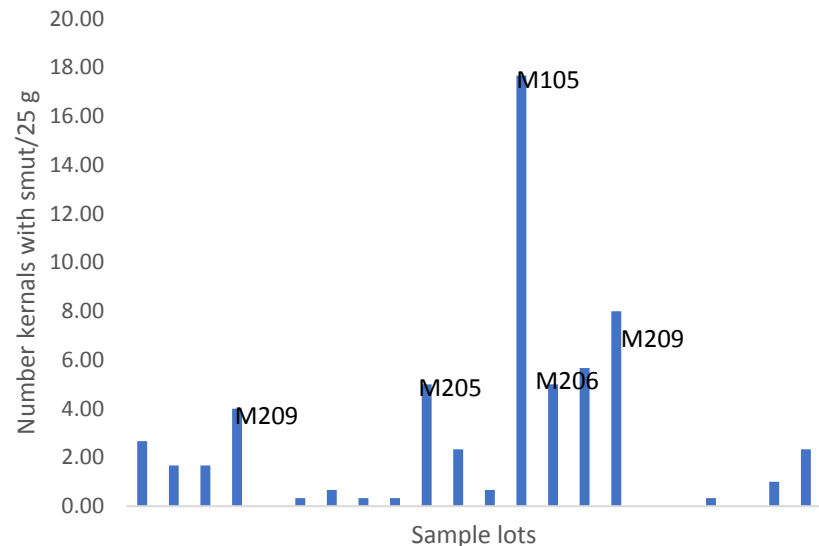
- Correct identity of rice kernel smut:

Tilletia horrida

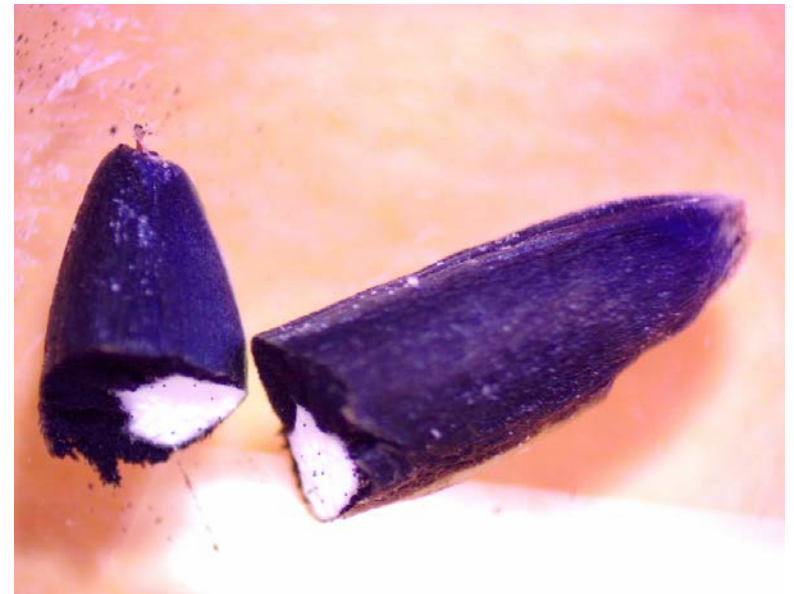
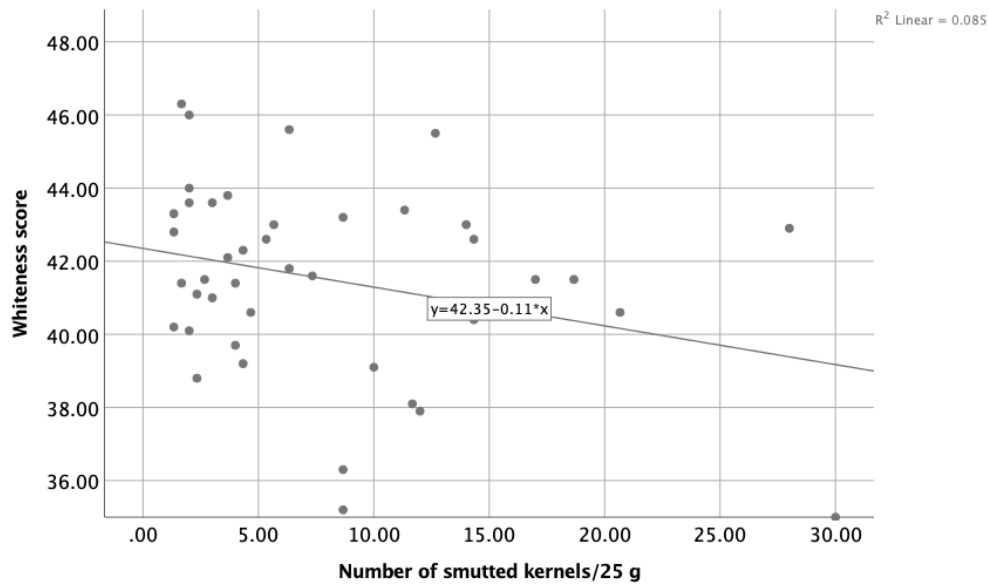


Kernel Smut

- How prevalent is kernel smut in rice seed?
 - Assayed smut loads in 22 seed lots
 - Established that all seed sources have smut
 - 80% of seed lots tested had smutted kernels

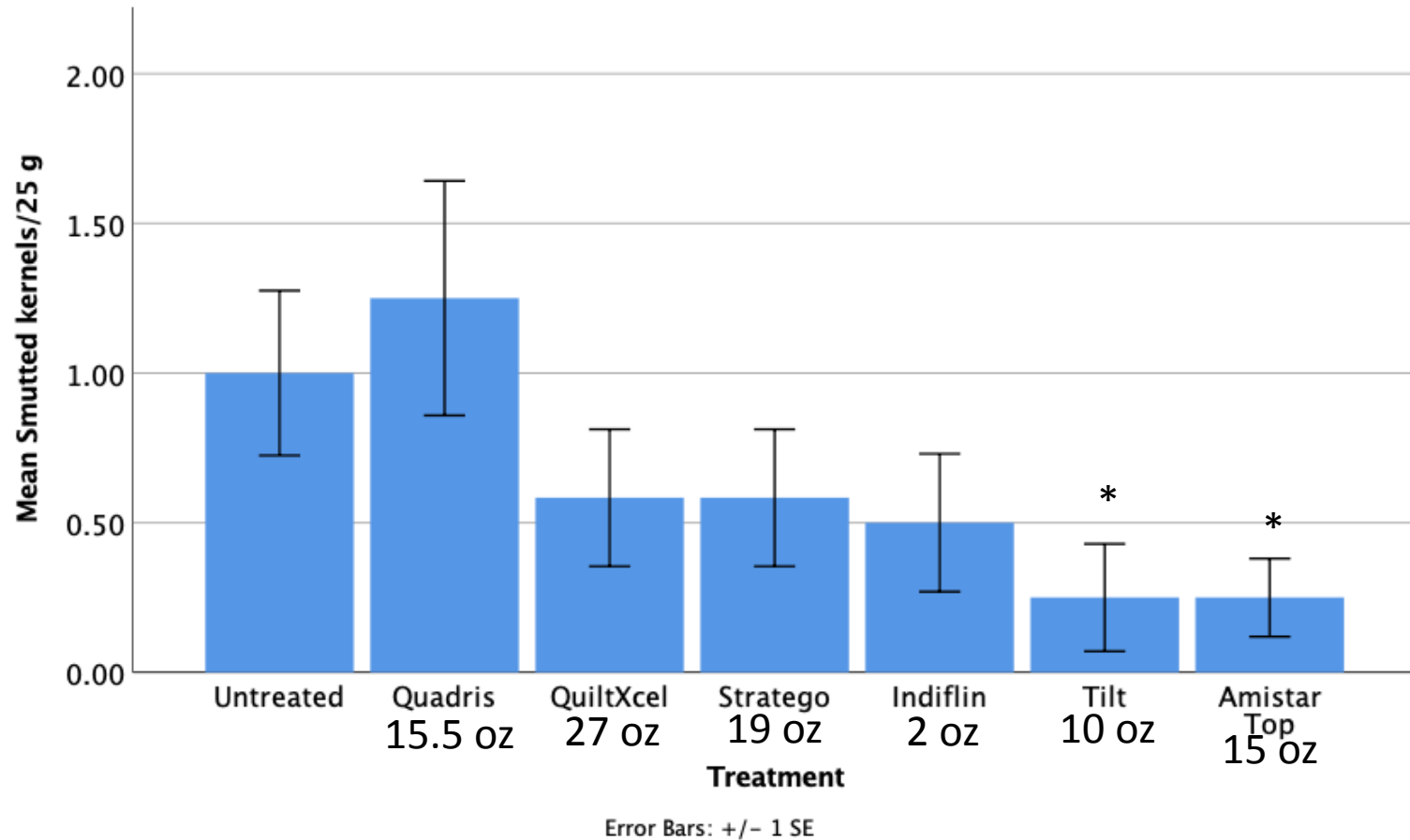


Kernel Whiteness



Kernel Smut

- Planted 5/11
- M-105
- App 72 DAS



Propiconazole Content

Product	Active Ingredients	Rate/a	Propiconazole A.I. gr/a
Quadris	Azoxystrobin	15.5 oz	0
QuiltXcel	Azoxystrobin + propiconazole	27 oz	98
Stratego	Trifloxystrobin + propiconazole	19 oz	70
Tilt	Propiconazole	10 oz	128
Excalia	Inpyrfluxam	2 oz	0

Kernel Smut – Conclusions

- ID: *Tilletia horrida*
- Kernel smut is fairly common in seed
- Kernel smut can reduce MY, HRY, kernel whiteness
- Propiconazole provides control