Rice Disease Management Considerations

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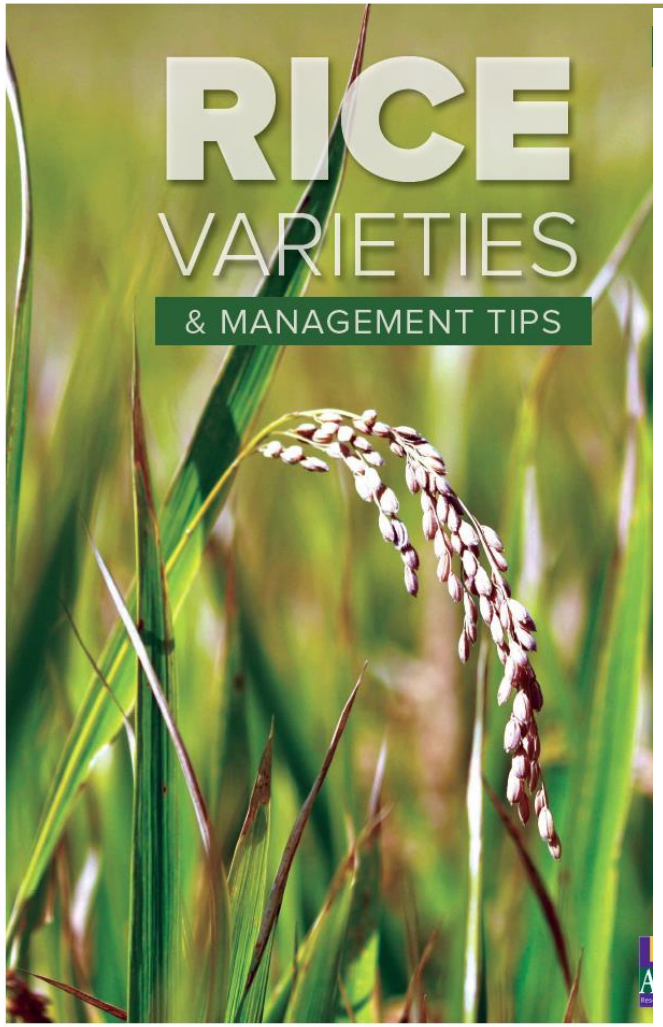

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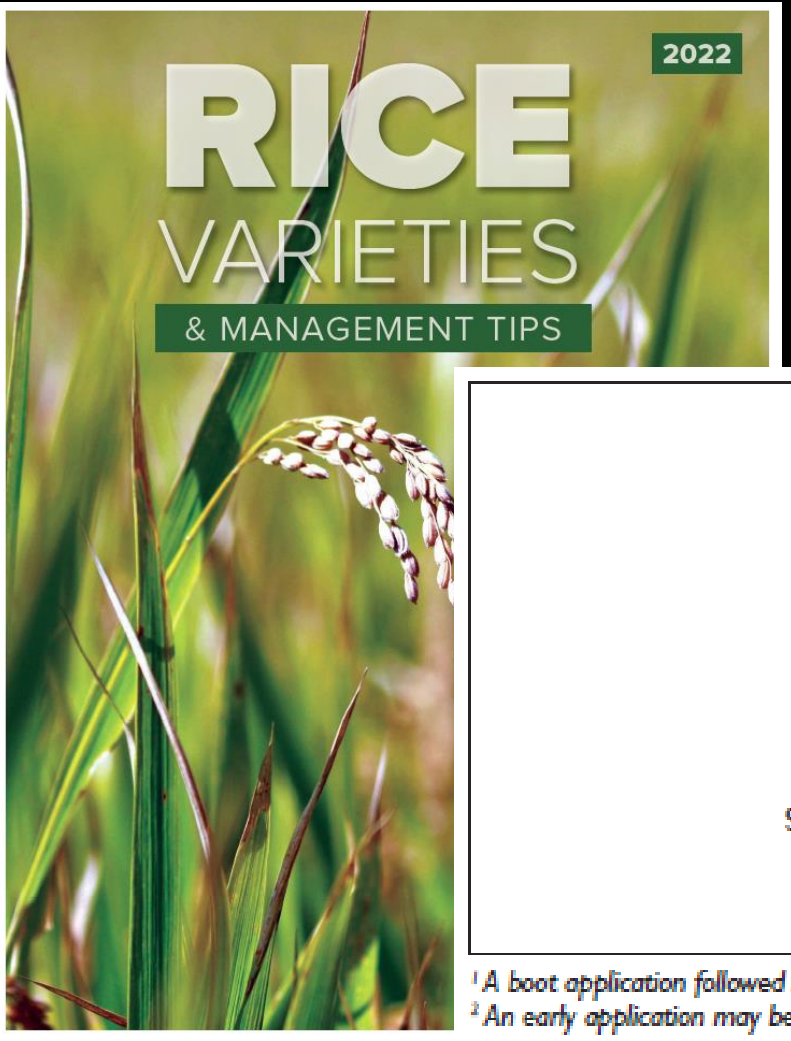
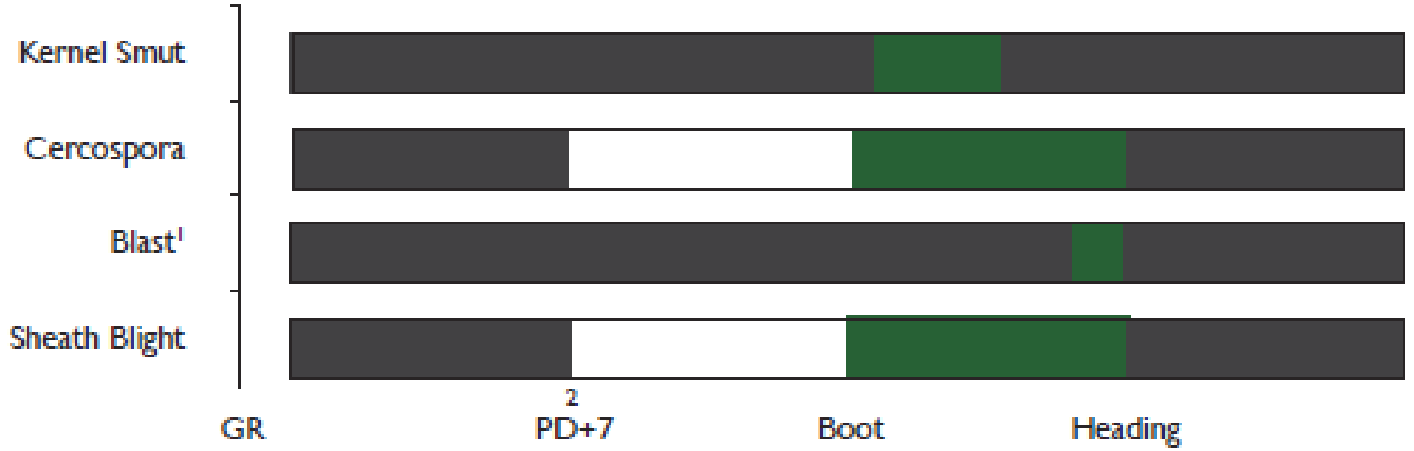
Variety	Blast	Sheath Blight	Cercospora	Bacterial Panicle Blight	Straighthead	Blast Resistance Spectrum*	Cercospora CRSP2.1†
Cheniere	MS	S	S	MS	MS	Minimal	Absent
CL111	MS	VS	S	VS	MS	Broad	Absent
CL151	VS	S	S	VS	VS	Limited	Absent
CL153	MS	S	MS	MS	MS	Broad	Absent
CL163	VS	S	R	MS	VS	Limited	Present
CLJ01	MR	MS	MR	S	MR	Unknown	Absent
CLL15	R	S	-	VS	R	Broad	Absent
CLL16	R	MS	-	MS	R	Broad	Present
CLL17	R	S	-	MR	R	Broad	Present
CLM04	S	MS	-	MR	S	Intermediate	Present
Della-2	R	S	MS	MS	R	Unknown	Absent
DG-263L	-	S	-	MR	-	Unknown	Present
Jazzman	R	MS	S	S	R	Unknown	Absent
Jewel	R	MS	-	S	R	Broad	Present
Jupiter	S	MS	R	MR	S	Minimal	Present
Lynx	S	VS	-	S	S	Limited	Present
Mermentau	S	S	NS	MS	S	Limited	Absent
PVL01	VS	S	MR	S	VS	Limited	Absent
PVL02	MS	MS	MS	S	MS	Limited	Absent
PVL03	MR	MS	-	MR	MR	Broad	Present
Titan	MS	S	MR	MS	MS	Intermediate	Present
RT7301	R	MR	MR	MR	R	n/a**	n/a**
RT7321 FP	R	MR	-	MR	R	n/a**	n/a**
RT7521 FP	R	MS	-	MR	R	n/a**	n/a**



Use resistant varieties/hybrids!
Identify disease(s) of concern.
If necessary, apply fungicides with appropriate timing.
Pay close attention to fungicide mode-of-action!

Figure 1. Rice Fungicide Timing.



[1] *A boot application followed by another at heading may be necessary with high disease pressure and susceptible variety.*
[2] *An early application may be necessary if sheath blight appears prior to the boot to heading application.*

Do not apply | Application may be needed | Best application timing

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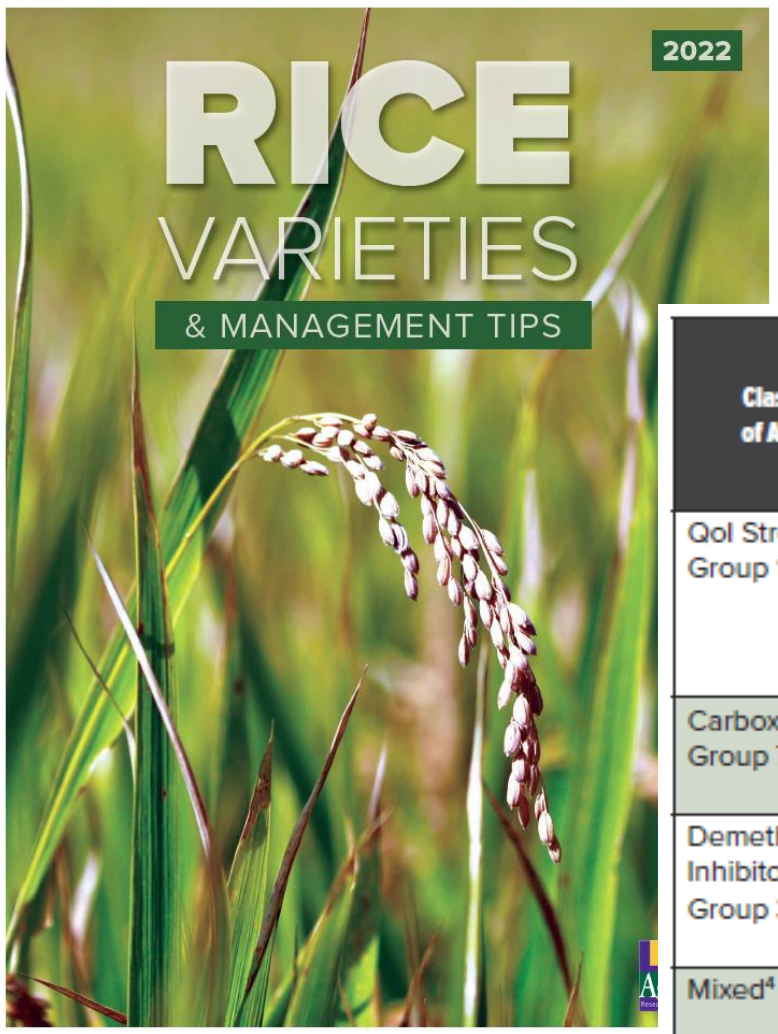
RICE PRODUCTION HANDBOOK
UofA DIVISION OF AGRICULTURE RESEARCH & EXTENSION University of Arkansas System



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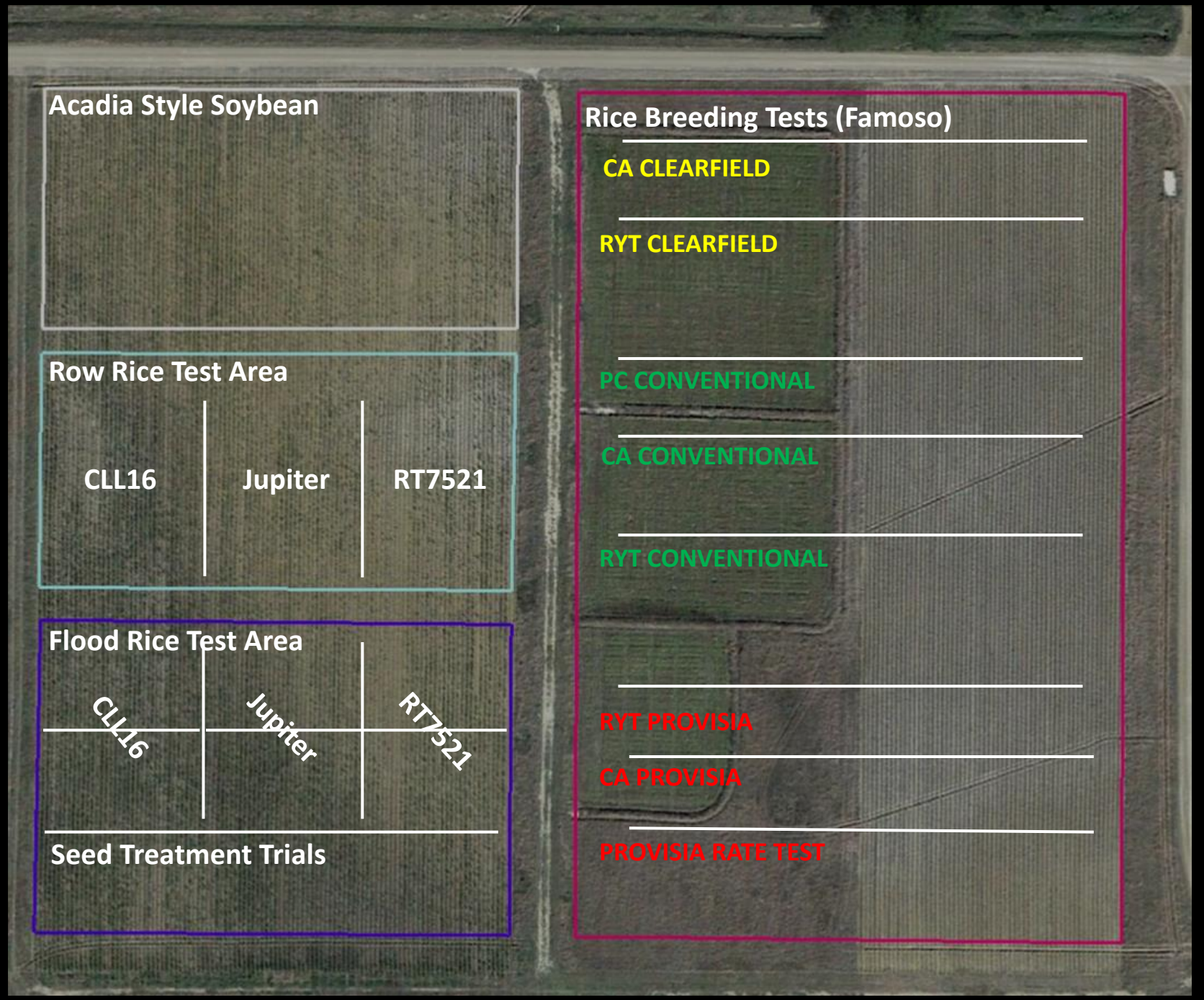
Class and Mode of Action Group[1]	Active Ingredient	Product(s)[2]	Rate[3] (fl oz)	Blast	Sheath Blight	QoI Resistant Sheath Blight	Cercospora	Kernel Smut
QoI Strobilurins Group 11	Azoxystrobin	Quadris 2.08 SC Equation 2.08 SC Others	9-15.5	G	VG	P	P	P
	Trifloxystrobin	Flint Extra	3.1-4.7	VG	G	P	P	P
Carboxamides Group 7	Flutolanil	Elegia 3.8 F	16-32	NL	G	G	NL	NL
	Fluxapyroxad	Sercadis 2.47 SC	4.5-6.8	NL	G	G	NL	NL
Demethylation Inhibitors (DMI) Group 3	Propiconazole	Tilt 3.6 EC Bumper PropiMax Others	6-10 6-10 6-10	NL	F	F	G	G
Mixed[4]	Azoxystrobin, Propiconazole	Quilt 200 SC	14-34.5	G	VG	P	G	G
	Azoxystrobin, Propiconazole	Quilt Xcel 2.2 SE	15.8-27	G	VG	P	G	G
	Azoxystrobin, Difenoconazole	Amistar Top	10-15	G	VG	G	G	G
	Flutolanil Propiconazole	Artisan	40	NL	G	G	G	G

Rice Work at MRRS

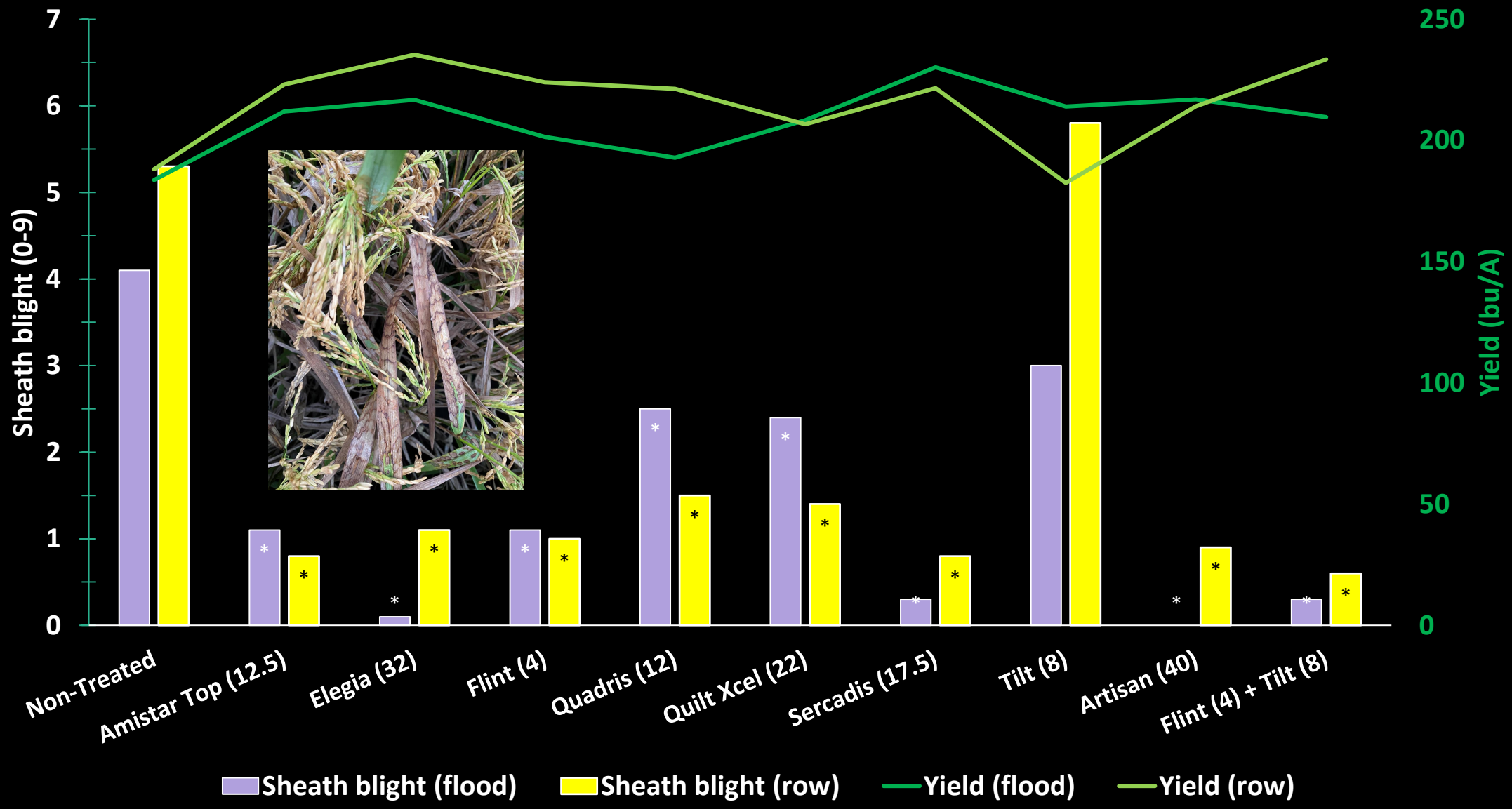
- Planted and managed 8 Rice Breeding Trials
- 3 row rice foliar fungicide trials (sheath blight and blast timings)
- 5 flood rice foliar fungicide trials (sheath blight, blast, and smut timings)
- 3 seed treatment trials
- Rated breeding trials for scab and straighthead at MRRS, monitored NERS for disease
- Spent time in SOLA rating for sheath blight, false smut, and blast (Rice Path, Famoso, Harrell)



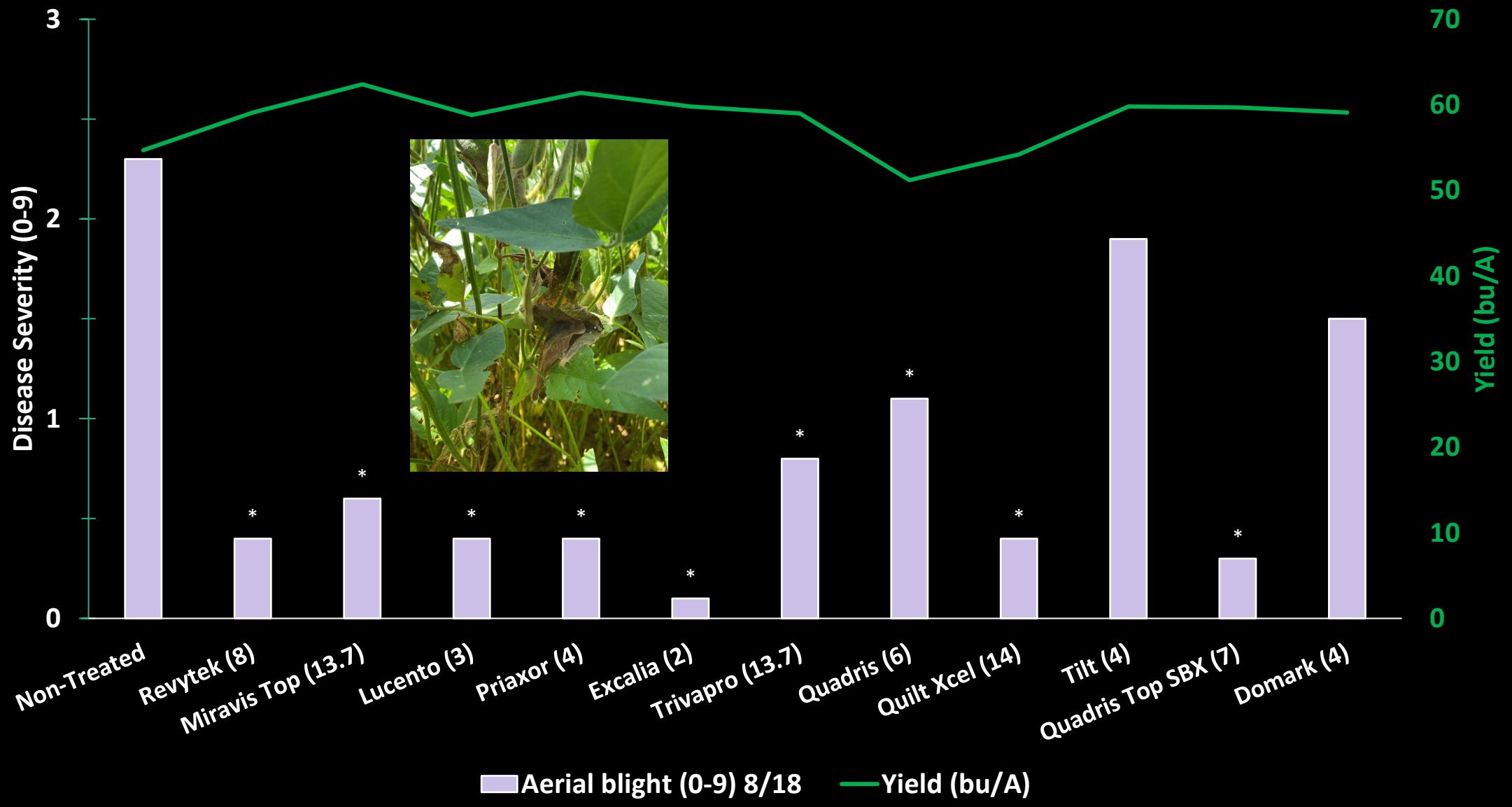



WARNING

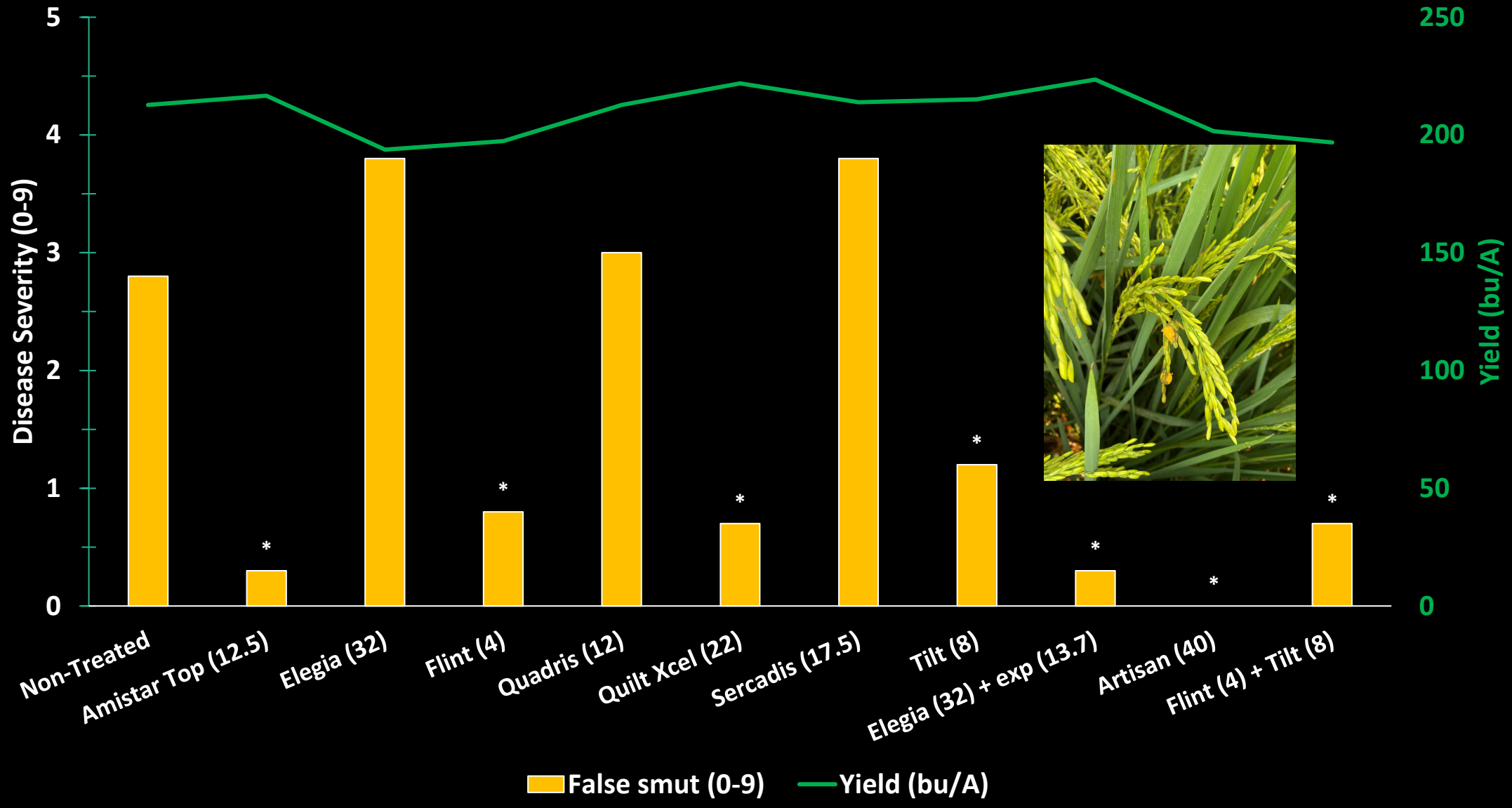
CLL16 – sheath blight; flood vs row



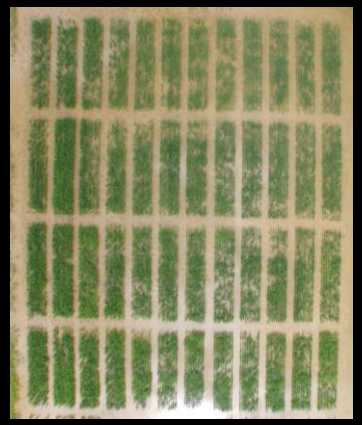
Acadia Style Soybean – aerial blight

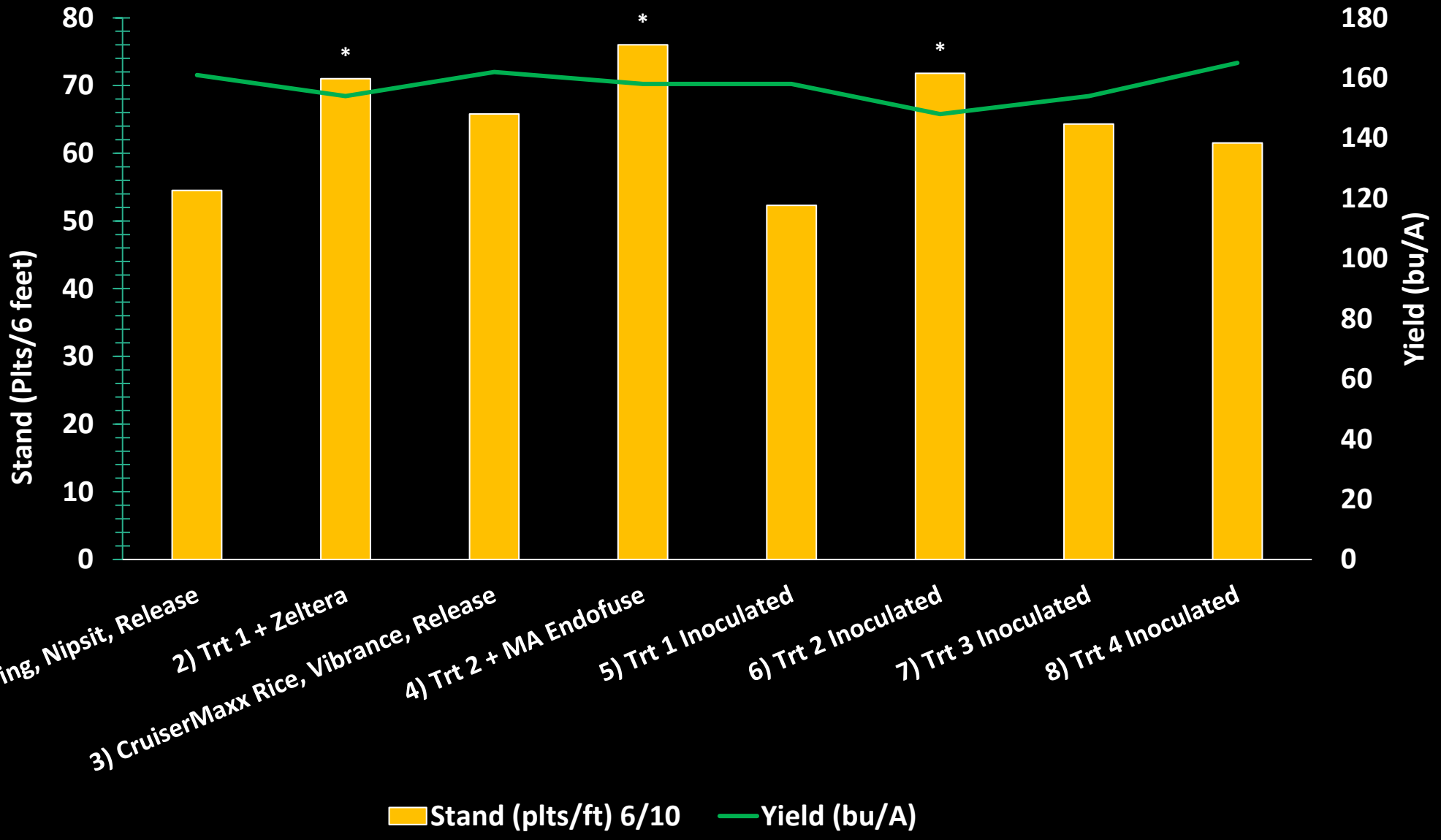


RT7521 – false smut; only occurred in flooded tests



Seed treatment trial





Plans for 2022

- Continue collaboration with breeding program (Famoso et al)
- Another attempt at blast data at MRRS (M201)
- Continue to generate false smut data
- Aiming for Cercospora as well
- Industry collaborations (foliar and seed treatment experimental fungicides)
- Rate MRRS and NERS agronomy and breeder trials for naturally occurring diseases
- Hear from consultants!

THANK YOU FOR THE OPPORTUNITY

- Funding goes to great people doing great work for Louisiana farmers!
- We can’t do what we do without your support!