COOPERATIVE EXTENSION
College of Agriculture, Forestry and Life Sciences

Peanut Variety and Management Update (selected slides)

Allendale – Hampton County Meeting 2024

Dan Anco
Extension Peanut Specialist
Clemson University – Edisto REC

White Mold Management

Lowering White Mold Risk

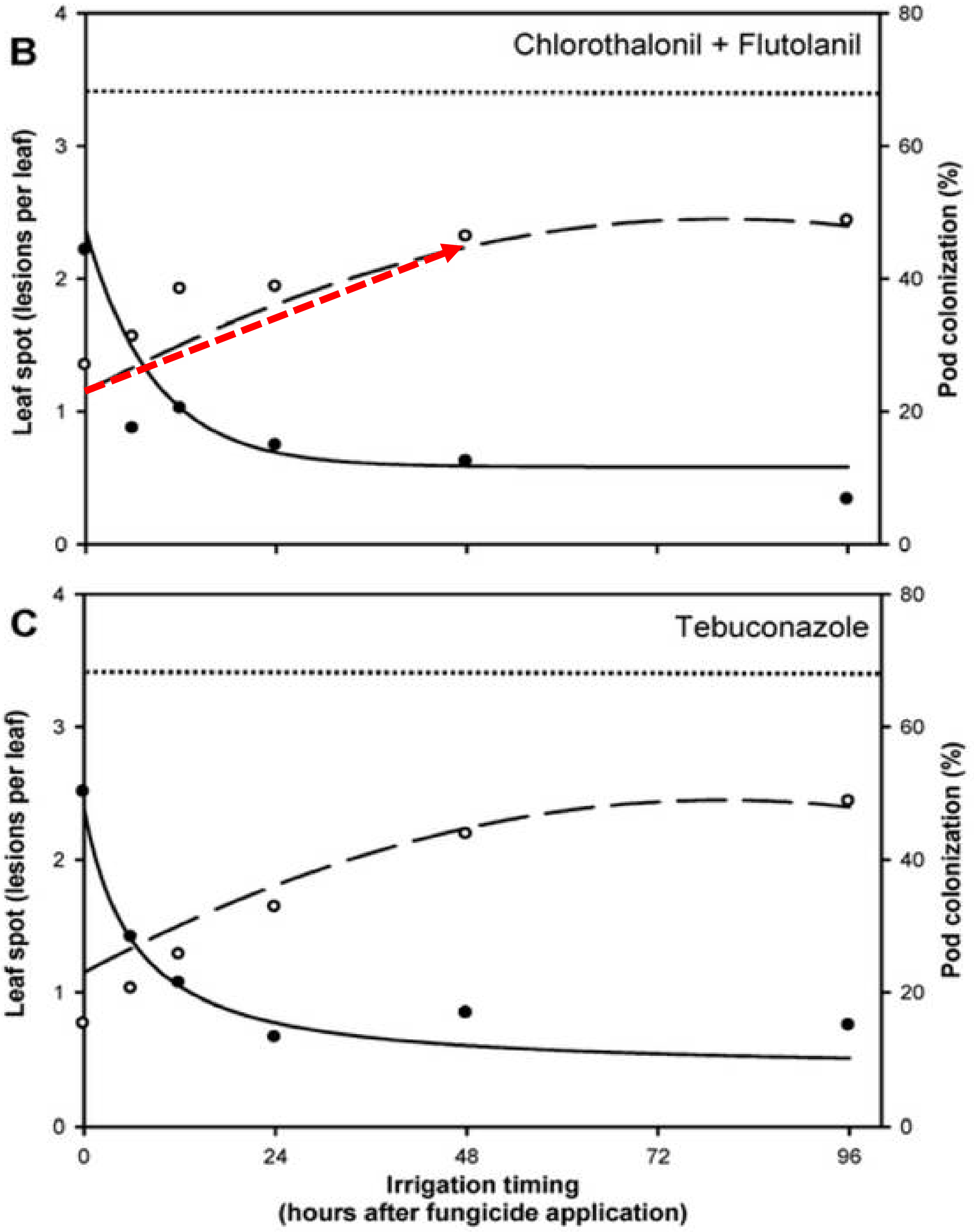
- Maintain good rotations, 2 to 3+ years between peanuts
  - Avoid soybean/legumes, tobacco, tomato, peppers
- Resistant varieties
  - Bailey II, Sullivan, Georgia 12Y
  - also FloRun 331 / T61, AU NPL 17
- Avoid early plantings (April); less risk in/after mid-May (12+)

Lowering White Mold Risk

- Start fungicide program ≤ 60 DAP
  - Hot early? Include WM + LLS activity at 45 days
  - 2019 May 1 – June 14: 905 cDD vs. 780 cDD (9-yr av.)
  - E.g., Lucento, Priaxor…

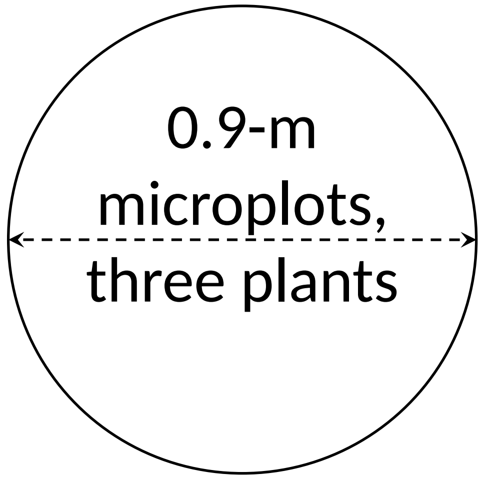
- Alternate effective products/MOA

- Ideally fungicides watered in, 24 – 48 h after (LS)
  - Dryland?



Woodward et al. 2012,
3 years 2003-05
13 mm (0.5”) irrigation, 0 – 96 h
2 (flutolanil) or 4 (teb) apps

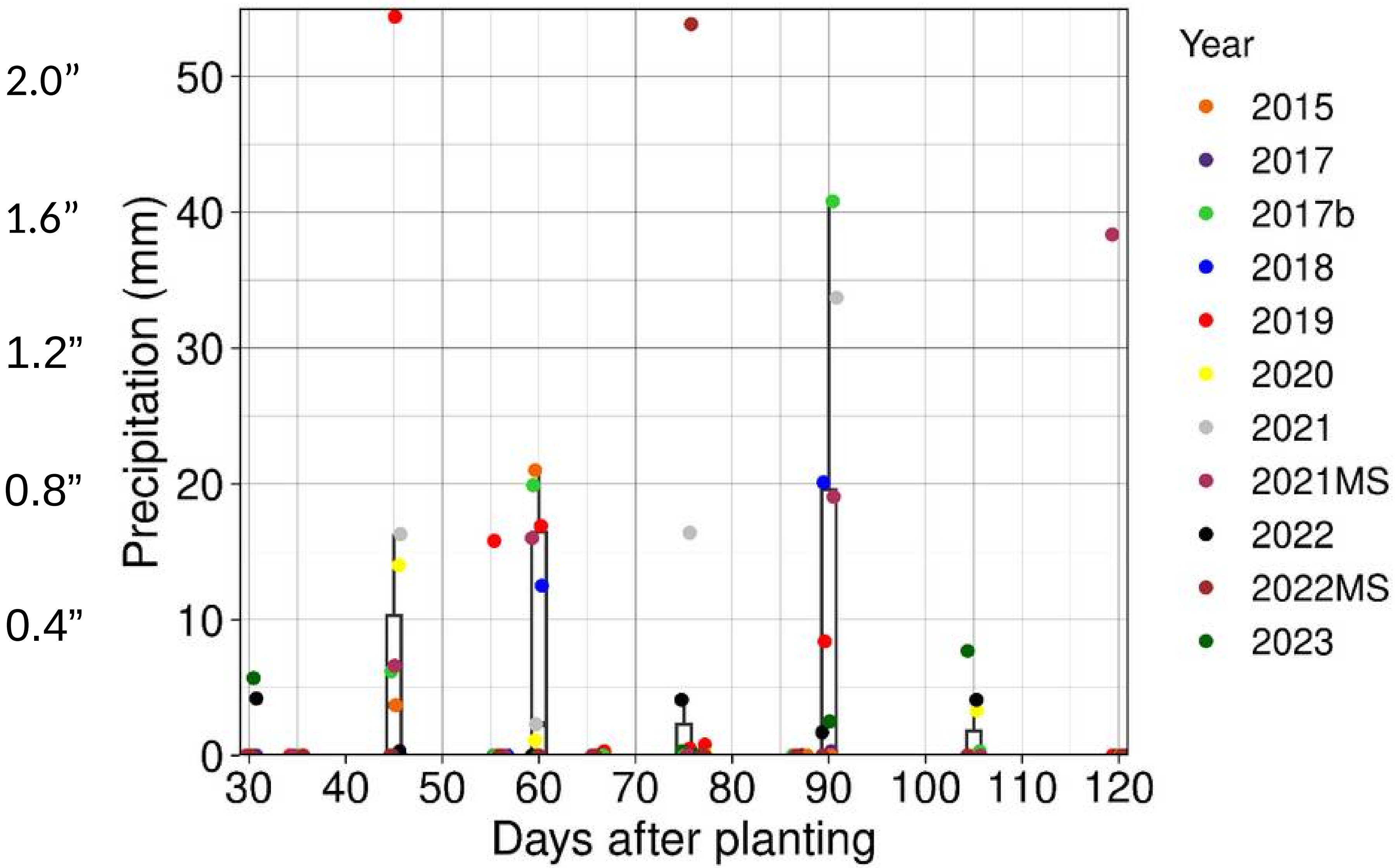
~22% greater control at 0 vs 48 h
Timely watering helps…



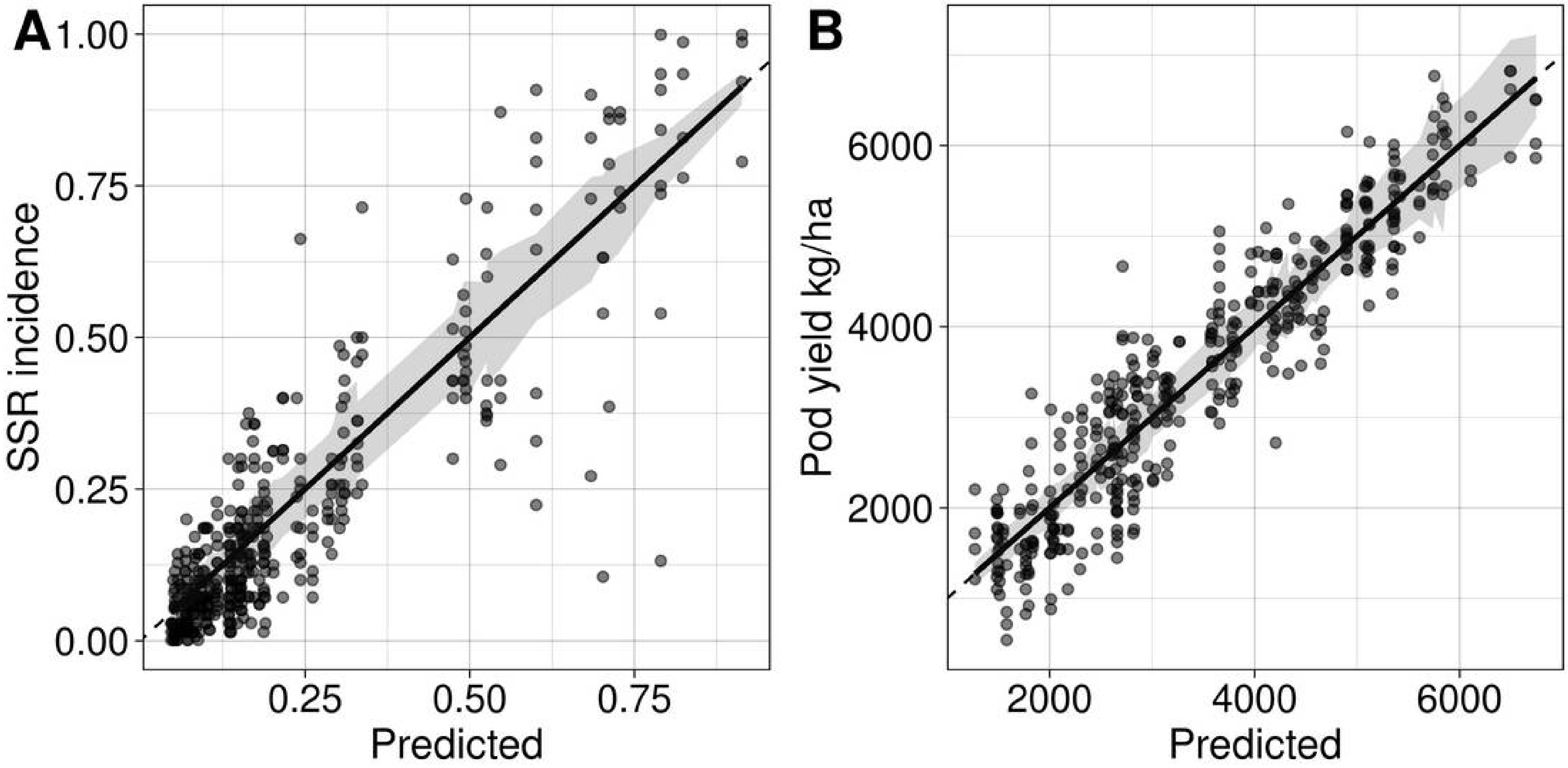
Fungicide	Experiments	Trts	Trt-Experiments
Bravo	10	1	10
Convoy	9	17	27
Elatus	9	8	12
Excalia	7	20	24
Prothioconazole	5	8	8
Tebuconazole	10	17	22
MD sulfur	5	9	12
total	*11*		

SC: 9, MS: 2

Anco, Hiers, Zurweller



2.0”
1.6”
1.2”
0.8”
0.4”
Precipitation (mm)
50
40
30
20
10
0
30 40 50 60 70 80 90 100 110 120
Days after planting
Year
2015
2017
2017b
2018
2019
2020
2021
2021MS
2022
2022MS
2023

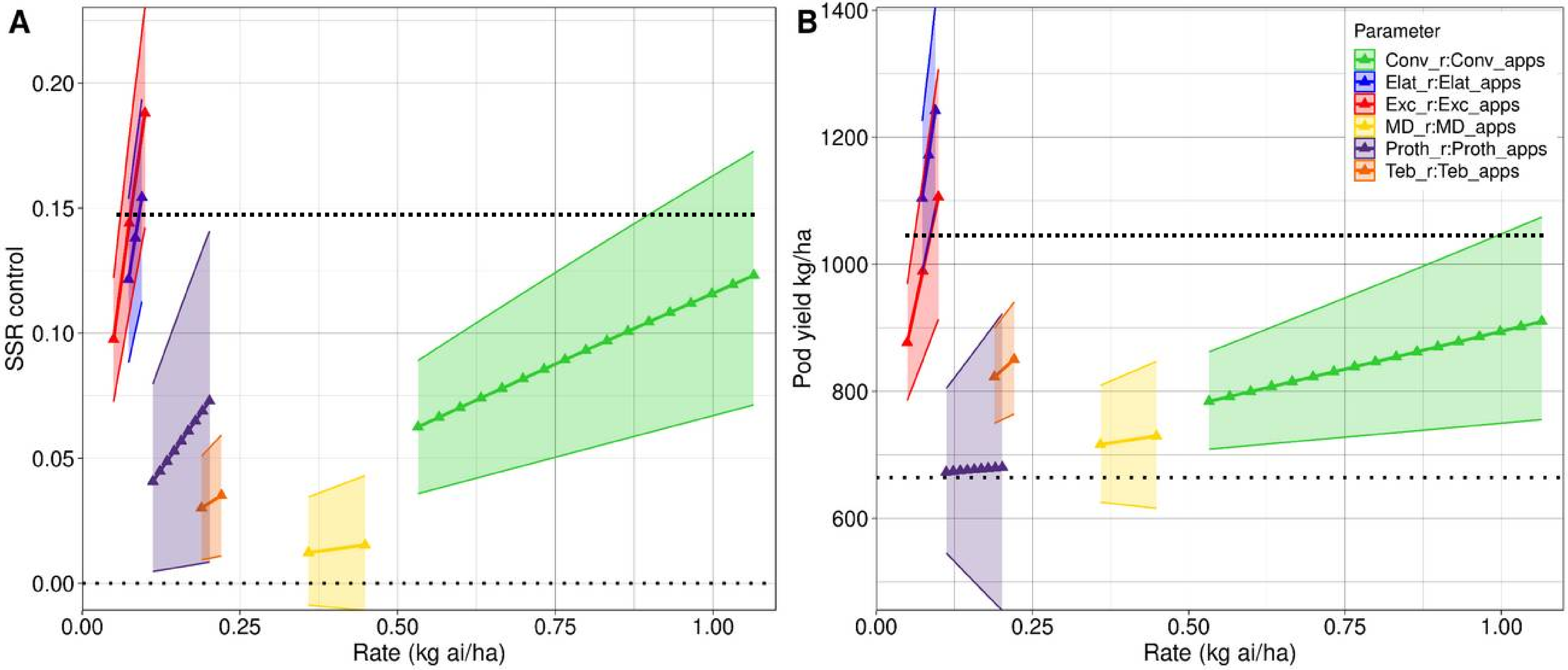


N = 414 obs

Reliability 88%

Reliability 90%

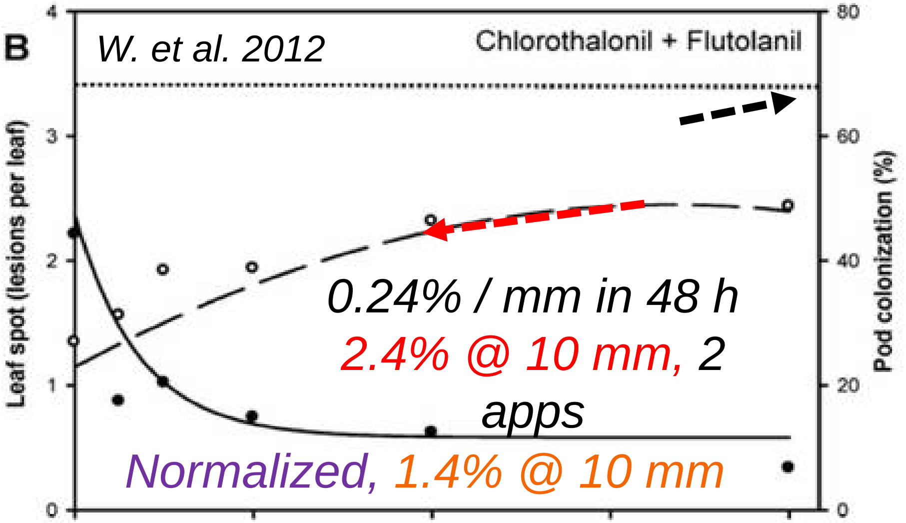
Cooperative Extension
College of Agriculture, Forestry and Life Sciences

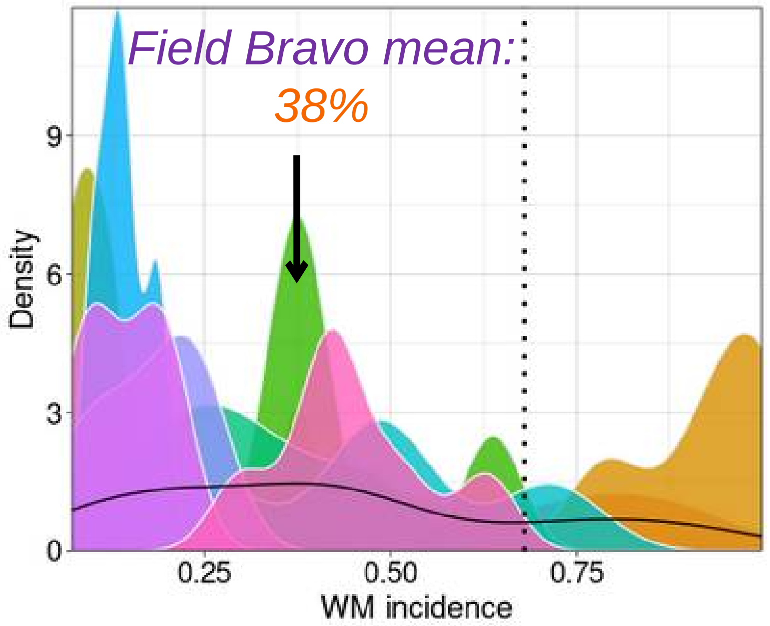


Parameter	Rate	Control (1 app)	Cost/app	WM Control/$	
Bravo (only)	24	-5.8%	$4.9	-1.19%	N.S.
Convoy	16	6.3%	$14.6		
	24	9.3%	$21.8	0.43%	
	32	12.3%	$29.1		
Elatus	7	12.2%	$18.8		
	8	13.8%	$21.5	0.64%	
	9	15.4%	$24.2		
Excalia	2	9.8%	$15.0		
	3	14.4%	$22.5	0.64%	
	4	18.8%	$30.0		
MD sulfur	5	1.5%	$9.5	0.16%	N.S.
Provost Silver	13	10.5%	$19.8	0.53%	
Tebuconazole	7	3.5%	$3.0	1.17%	
Precipitation	3 mm (0.1”)	0.3%			
	10 mm (0.4”)	1.0%			
	15 mm (0.6”)	1.5%			

COOPERATIVE EXTENSION
College of Agriculture, Forestry and Life Sciences

Parameter	Rate	Control (1 app)	Cost/app	WM Control/$
Bravo (only)	24	-5.8%	$4.9	-1.19%
Convoy	16	6.3%	$14.6	
	24	9.3%	$21.8	0.43%
	32	12.3%	$29.1	
Elatus	7	12.2%	$18.8	
	8	13.8%	$21.5	0.64%
	9	15.4%	$24.2	
Excalia	2	9.8%	$15.0	
	3	14.4%	$22.5	0.64%
	4	18.8%	$30.0	
MD sulfur	5	1.5%	$9.5	0.16%
Provost Silver	13	10.5%	$19.8	0.53%
Tebuconazole	7	3.5%	$3.0	1.17%
Precipitation	3 mm (0.1”)	0.3%		
	10 mm (0.4”)	1.0%		
	15 mm (0.6”)	1.5%		





Parameter	Rate	Yield	Yield_Bravo	Cost/app	Net_Bravo
Bravo (only)	24	2240		$4.9	
Convoy	16	3025	785	$14.6	$181
	24	3087	847	$21.8	$189
	32	3151	911	$29.1	$197
Elatus	7	3345	1105	$18.8	$254
	8	3413	1173	$21.5	$268
	9	3483	1243	$24.2	$282
Excalia	2	3118	878	$15.0	$203
	3	3230	990	$22.5	$223
	4	3347	1107	$30.0	$243
MD sulfur	5	2904	664	$9.5	$156
Provost Silver	13	3077	837	$19.8	$188
Tebuconazole	7	3091	851	$3.0	$208
Precipitation	3 mm (0.1”)	2929	*25*		*$6*
	10 mm (0.4”)	2986	*82*		*$20*
	15 mm (0.6”)	3028	*124*		*$30*

Takeaways

- Multiple effective products to use/rotate
  - Excalia, Elatus, Convoy/Umbra, Provost Silver
  - Upper rates: WM control, yield overlap

- Maintain coverage in high risk fields/years
- MD sulfur: N/A to WM control

- Teb: good $ efficiency, weaker max control

Takeaways

- Precipitation 48-h improves WM control, similar/proportional to W. ‘2012
  - Canopy densities…

- Dryland: piggyback rain as available; application still helps if no rain
- Rate, number of apps/coverage both important

- Leaf spot vs WM…

Thank You!

630-207-4926
danco@clemson.edu

Justin Hiers
Kyle Kinard
Sarala Giri
Samantha Mehl

Brendan Zurweller, MSU

Jonathan Croft
Joe Varn
Rogan Gibson
William Hardee
Hannah Mikell
Kyle Smith
David DeWitt
Marion Barnes
Zach Dantzler
Charles Davis

south carolina peanut board

National Peanut Board

GEORGIA SEED DEVELOPMENT