



TECH Tips

Brad Ruden
Manager - Agronomy Tech Service



Research and Technology Field Results- Soybean White Mold Fungicides

Objectives:

1. Demonstrate the effectiveness of various fungicide products applied for the control of white mold

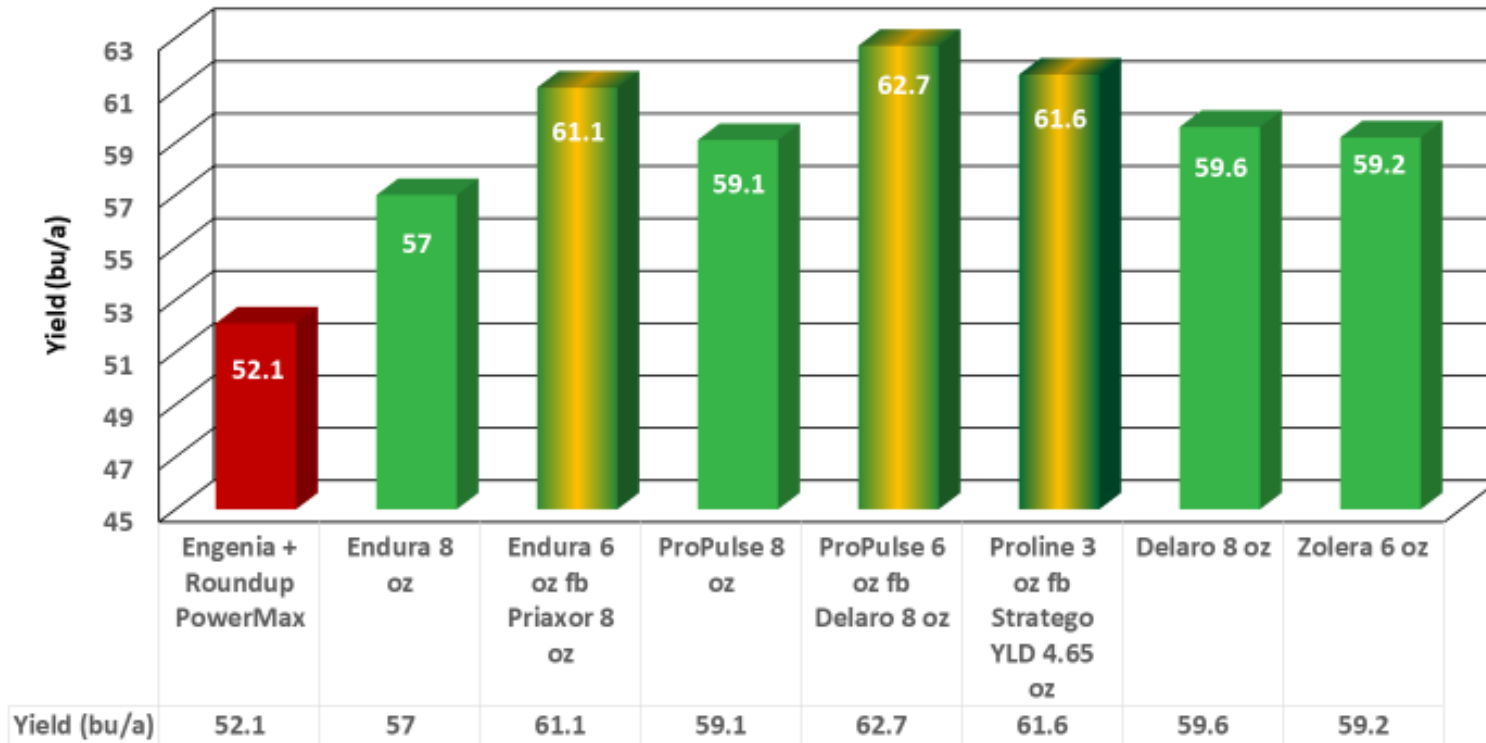
Treatments Tested – Soybean White Mold Fungicides:

- Untreated (no fungicide)
- Endura Fungicide (BASF) – high rate
- Endura – lower rate followed by Priaxor Fungicide (BASF)
- ProPulse Fungicide (Bayer)- high rate
- ProPulse- lower rate followed by Delaro Fungicide (Bayer)
- Proline Fungicide (Bayer)-lower rate followed by Stratego YLD Fungicide (Bayer)
- Delaro Fungicide
- Zolera Fungicide (Arysta)

Treatments and Rates Tested (Bath):

Trt No.	Type	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Growth Stage	Appl Code	Comment 1	Rep 1	Notes
1	HERB	Engenia	5	LBA/GAL	SL	12.8	oz/a	MIPOCR A	A	10 ft plot	101	
	HERB	Roundup PowerMax	5	LBA/GAL	SL	32	oz/a	MIPOCR A	A			
	INSE	Leverage 360	3	LBA/GAL	SC	2.8	oz/a	MIPOCR A	A			
	ADJ	Class Act Ridion	100	%	SL	1.0	% v/v	MIPOCR A	A			
	ADJ	OnTarget	100	%	SL	0.5	% v/v	MIPOCR A	A			
2	FUNG	Endura	70	%AW/W	WG	8	oz/a	MIPOCR A	A	10 ft plot	102	
	INSE	Leverage 360	3	LBA/GAL	SC	2.8	oz/a	MIPOCR A	A			
	ADJ	Masterlock	100	%	SL	6.4	oz/a	MIPOCR A	A			
3	FUNG	Endura	70	%AW/W	WG	6	oz/a	MIPOCR A	A	10 ft plot	103	
	INSE	Leverage 360	3	LBA/GAL	SC	2.8	oz/a	MIPOCR A	A			
	ADJ	Masterlock	100	%	SL	6.4	oz/a	MIPOCR A	A			
	FUNG	Priaxor	4.17	LBA/GAL	SC	8	oz/a	LAPOCR B	B			
	ADJ	Masterlock	100	%	SL	6.4	oz/a	LAPOCR B	B			
4	FUNG	ProPulse	3.34	LBA/GAL	SC	8	oz/a	MIPOCR A	A	10 ft plot	104	
	INSE	Leverage 360	3	LBA/GAL	SC	2.8	oz/a	MIPOCR A	A			
	ADJ	Masterlock	100	%	SL	6.4	oz/a	MIPOCR A	A			
5	FUNG	ProPulse	3.34	LBA/GAL	SC	6	oz/a	MIPOCR A	A	10 ft plot	105	
	INSE	Leverage 360	3	LBA/GAL	SC	2.8	oz/a	MIPOCR A	A			
	ADJ	Masterlock	100	%	SL	6.4	oz/a	MIPOCR A	A			
	FUNG	Delaro	2.76	LBA/GAL	SC	8	oz/a	LAPOCR B	B			
	ADJ	Masterlock	100	%	SL	6.4	oz/a	LAPOCR B	B			
6	FUNG	Proline	4	LBA/GAL	SC	3	oz/a	MIPOCR A	A	10 ft plot	106	
	INSE	Leverage 360	3	LBA/GAL	SC	2.8	oz/a	MIPOCR A	A			
	ADJ	Masterlock	100	%	SL	6.4	oz/a	MIPOCR A	A			
	FUNG	Stratego YLD	4.19	LBA/GAL	SC	4.65	oz/a	LAPOCR B	B			
	ADJ	Masterlock	100	%	SL	6.4	oz/a	LAPOCR B	B			
7	FUNG	Delaro	2.76	LBA/GAL	SC	8	oz/a	LAPOCR B	B	10 ft plot	107	
	INSE	Leverage 360	3	LBA/GAL	SC	2.8	oz/a	LAPOCR B	B			
	ADJ	Masterlock	100	%	SL	6.4	oz/a	LAPOCR B	B			
8	FUNG	Zolera	3.34	LBA/GAL	SC	6.0	oz/a	LAPOCR B	B	10 ft plot	108	
	INSE	Leverage 360	3	LBA/GAL	SC	2.8	oz/a	LAPOCR B	B			
	ADJ	Masterlock	100	%	SL	6.4	oz/a	LAPOCR B	B			

Research and Technology Plots: 2018 Soybean White Mold



- AG14X8 soybean planted at 140,000 seeds per acre
- Sprays applied at R1 growth stage followed by R3 in two-shot programs



Yield Results – Soybean White Mold Fungicides:

11-20-18 (AGTEG_BATH_18_SOY_WHITE_MOLD)

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Agtegra Cooperative

Trial ID: AGTEG_BATH_18_SOY_WHITE_MOLD		2018 Soybean White Mold Programs	
Protocol ID: AGTEG8SOY		Location: Agtegra-Bath Trial Year: 2018	
Project ID:		Investigator: Brad Ruden	
		Study Director: Brad Ruden	
		Sponsor Contact:	

Crop Name	Rating Type	Rating Unit	Sample Size, Unit	Soybean	Soybean	Soybean
				YIELD	MOICON	WEITES
				BU	%	LB
				1	1	1
				A	BU	BU
Trt No.	Treatment Name	Rate	Growth			
		Rate Unit	Stage			
1	Engenia	12.8 oz/a	MIPOCR	52.1	13.50	56.80
	Roundup PowerMax	32 oz/a	MIPOCR			
	Leverage 360	2.8 oz/a	MIPOCR			
	Class Act Ridion	1.0 % v/v	MIPOCR			
	OnTarget	0.5 % v/v	MIPOCR			
2	Endura	8 oz/a	MIPOCR	57.0	13.00	57.40
	Leverage 360	2.8 oz/a	MIPOCR			
	Masterlock	6.4 oz/a	MIPOCR			
3	Endura	6 oz/a	MIPOCR	61.1	13.10	57.10
	Leverage 360	2.8 oz/a	MIPOCR			
	Masterlock	6.4 oz/a	MIPOCR			
	Priaxor	8 oz/a	LAPOCR			
	Masterlock	6.4 oz/a	LAPOCR			
4	ProPulse	8 oz/a	MIPOCR	59.1	13.00	57.10
	Leverage 360	2.8 oz/a	MIPOCR			
	Masterlock	6.4 oz/a	MIPOCR			
5	ProPulse	6 oz/a	MIPOCR	62.7	13.00	57.10
	Leverage 360	2.8 oz/a	MIPOCR			
	Masterlock	6.4 oz/a	MIPOCR			
	Delaro	8 oz/a	LAPOCR			
	Masterlock	6.4 oz/a	LAPOCR			
6	Proline	3 oz/a	MIPOCR	61.6	13.10	57.50
	Leverage 360	2.8 oz/a	MIPOCR			
	Masterlock	6.4 oz/a	MIPOCR			
	Stratego YLD	4.65 oz/a	LAPOCR			
	Masterlock	6.4 oz/a	LAPOCR			
7	Delaro	8 oz/a	LAPOCR	59.6	13.10	57.70
	Leverage 360	2.8 oz/a	LAPOCR			
	Masterlock	6.4 oz/a	LAPOCR			
8	Zolera	6.0 oz/a	LAPOCR	59.2	12.90	57.60
	Leverage 360	2.8 oz/a	LAPOCR			
	Masterlock	6.4 oz/a	LAPOCR			
LSD P=.05				.	.	.
CV				.	.	.

Key Observations – Soybean White Mold Fungicides

- White mold was not significant at the plot (less than 0.5% incidence), but **all programs provided a very significant yield gain, ranging from 4.9 to 10.6 bu/acre**
- **Two- shot programs (R1 followed by R3) always outperformed single early applications**
- **Endura or ProPulse were similar, and performed as top yielding plots**
- **Single R3 applications of Delaro or Zolera performed admirably.** Later application may have had more effect on drought stress tolerance.

Plot Setup Information:

- Plot located at the Agtegra Bath location in the Research and Technology demonstration plots
- Variety: Asgrow 14X8 planted at 140000 plants per acre in 30" rows
- Plots planted May 19, 2018
- R1 foliar sprays were applied 6-25-18
- R3 foliar sprays were applied 7-9-18