

**Comparative fungicide efficacy: Management of white mold in soybeans**

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**Approach:** picoxystrobin (FRAC 11) **Endura:** boscalid (FRAC 7) **Delaro Complete:** fluopyram (FRAC 7), prothioconazole (FRAC 3), trifloxystrobin (FRAC 11)

year	2023	2024	COMBINED ANALYSIS		2023	2024	COMBINED ANALYSIS	
location	Carrington	Carrington	2 studies		Carrington	Carrington	2 studies	
funding	Corteva	Corteva			COMBINED ANALYSIS			
variety	P06T04E	P08A44E	Approach 8.5 fl oz versus Endura 6 oz/ac; Delaro Complete 8 fl oz/ac		21Xf07	XO0602E	Two sequential applications of the same fungicide	
brand, maturity	Pioneer, 0.6	Pioneer, 0.8			COMBINED ANALYSIS			
row spacing	14 inches	15 inches	Two sequential applications of the same fungicide		14 inches	14 inches	Two sequential applications of the same fungicide	
seeding rate	165,000 pls/ac	140,000 pls/ac			Approach 8.5 fl oz versus Endura 6 oz/ac; Delaro Complete 8 fl oz/ac			
previous crop	chickpeas	sunflowers	Two sequential applications of the same fungicide		chickpeas	dry edible beans	Two sequential applications of the same fungicide	
planting date	May 24	May 16			Approach 8.5 fl oz versus Endura 6 oz/ac; Delaro Complete 8 fl oz/ac			
disease assessment date	Oct. 12	Oct. 8-9	Two sequential applications of the same fungicide		Oct. 12	Oct. 1	Two sequential applications of the same fungicide	
rows assessed for disease	1	2			Approach 8.5 fl oz versus Endura 6 oz/ac; Delaro Complete 8 fl oz/ac			
harvest date	Oct. 17	Oct. 14	Two sequential applications of the same fungicide		Oct. 17	Oct. 4	Two sequential applications of the same fungicide	
dates, applications 1 and 2	July 22, Aug. 2	July 24, July 31			Approach 8.5 fl oz versus Endura 6 oz/ac; Delaro Complete 8 fl oz/ac			
interval between applications	11 days	7 days	Two sequential applications of the same fungicide		11 days	7 days	Two sequential applications of the same fungicide	
growth stage, 1st applic.	100% R2	100% R2			Approach 8.5 fl oz versus Endura 6 oz/ac; Delaro Complete 8 fl oz/ac			
canopy closure, 1st applic	95-100%	75-90%	Two sequential applications of the same fungicide		98-100%	90-95%	Two sequential applications of the same fungicide	
nozzles, pressure, 1st applic.	AIXR110015, 50 psi	AIXR110015, 60 psi			Approach 8.5 fl oz versus Endura 6 oz/ac; Delaro Complete 8 fl oz/ac			
droplet size, 1st applic.	medium-coarse	medium	Two sequential applications of the same fungicide		medium-coarse	medium	Two sequential applications of the same fungicide	
canopy closure, 2nd applic.	100%	90-98%			Approach 8.5 fl oz versus Endura 6 oz/ac; Delaro Complete 8 fl oz/ac			
nozzles, pressure, 2nd applic.	AIXR110015, 40 psi	AIXR110015, 40 psi	Two sequential applications of the same fungicide		AIXR110015, 40 psi	AIXR110015, 40 psi	Two sequential applications of the same fungicide	
droplet size, 2nd applic.	coarse	coarse			Approach 8.5 fl oz versus Endura 6 oz/ac; Delaro Complete 8 fl oz/ac			
adjuvant	Induce, 0.125% v/v	Induce, 0.25% v/v	Two sequential applications of the same fungicide		Masterlock, 6.4 fl oz/ac	Masterlock, 6.4 fl oz/ac	Two sequential applications of the same fungicide	
fungicide spray volume	15 gal/ac	15 gal/ac			Approach 8.5 fl oz versus Endura 6 oz/ac; Delaro Complete 8 fl oz/ac			
application method	hand-held boom	hand-held boom	Two sequential applications of the same fungicide		hand-held boom	hand-held boom	Two sequential applications of the same fungicide	
					Approach 8.5 fl oz versus Endura 6 oz/ac; Delaro Complete 8 fl oz/ac			
<b>White mold incidence (% of plants)</b>			<b>White mold (% plants)</b>			<b>White mold (% plants)</b>		
Non-treated control	50 c	85 c	68 b	54 b	86 b	70 c		
Delaro Complete 8 fl oz/ac	25 ab	52 ab	39 a	38 ab				
Approach 8.5 fl oz/ac	39 bc	69 bc	54 b					
Approach 12 or 13.7 fl oz/ac				Approach 12 fl oz	Approach 13.7 fl oz	50 b		
Endura 6 oz/ac	17 a	43 a	30 a	34 ab	66 a	44 a		
CV:	33.7	14.4	6.6	35.6	9.3	0.6		
<b>White mold severity index (% of canopy)</b>			<b>White mold (% canopy)</b>			<b>White mold (% canopy)</b>		
Non-treated control	31 b	47 b	39 c	31 b	70 b	51 b		
Delaro Complete 8 fl oz/ac	14 a	26 a	20 ab	20 ab				
Approach 8.5 fl oz/ac	21 ab	33 ab	27 b					
Approach 12 or 13.7 fl oz/ac				Approach 12 fl oz	Approach 13.7 fl oz	34 ab		
Endura 6 oz/ac	7 a	17 a	12 a	19 ab	49 a	27 a		
CV:	49.2	27.3	7.8	47.4	13.9	9.5		
<b>Soybean yield (bu/ac; 13% moisture)</b>			<b>Yield (bu/ac)</b>			<b>Yield (bu/ac)</b>		
Non-treated control	56 b	39 b	47 a	50 a	28 b	39 a		
Delaro Complete 8 fl oz/ac	59 ab	55 a	57 a	53 a				
Approach 8.5 fl oz/ac	56 b	49 a	53 a					
Approach 12 or 13.7 fl oz/ac				Approach 12 fl oz	Approach 13.7 fl oz	48 a		
Endura 6 oz/ac	63 a	56 a	60 a	53 a	43 a	55 a		
CV:	6.8	10.6	7.6	15	10.2	9.8		