

Topguard Evaluation in Soybean.

Project Code: 07-T2-Cheminova Location: Carbondale, IL
 Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Carbondale IL 62901 USA
 Trial Status: Final Updated: 1-24-08

Objective:

Evaluate the efficacy and selectivity of Topguard SC when foliar applied to soybean for control of soybean rust.

Crop 1: GLXMA soybean Variety: Asgrow 4703
 Planting Method: Seeded Planting Date: 5-14-07
 Rate: 75 lb/A Depth: 1.0 IN
 Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 20 FT Reps: 4
 Tillage Type: Reduced-Till Study Design: Randomized complete block
 Previous Crop, Year: grass, 2006

APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	7-16-07	8-6-07		
Time of Day:	14:00	9:00	Not applied	Not applied
Application Method:	Spray	Spray	Spray	Spray
Application Timing:	R1-R2	R3-R4	21DA-A	21DA-B
Applic. Placement:	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	90 F	88 F		
% Relative Humidity:	64	65		
Wind Velocity, Unit:	2.5 MPH	2 MPH		
% Cloud Cover:	40	0		

CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	GLXMA R3	GLXMA R5	GLXMA	GLXMA
Height, Unit:	46 IN	50 IN	IN	IN

APPLICATION EQUIPMENT

	A	B	C	D
Appl. Equipment:	CO2 sprayer	CO2 sprayer		
Operating Pressure:	40 PSI	40 PSI		
Nozzle Type:	Flat fan	Flat fan		
Nozzle Size:	XR 8002	XR 8002		
Boom Length, Unit:	7.5 FT	7.5 FT		
Spray Volume, Unit:	15 GPA	15 GPA		

NOTES:

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Weed Code		Crop Code		GLXMA		GLXMA		GLXMA		GLXMA		GLXMA		GLXMA		GLXMA		GLXMA	
Rating Data Type		Moisture		Yield		Injury		Injury		FROEYE		FROEYE		FROEYE		Leaves		GRESTE	
Rating Unit		Percent		bu/A		Percent		Percent		Sever0-9		Sever0-9		Sever0-9		Percent		Percent	
Rating Date		10-4-07		10-4-07		7-23-07		8-1-07		7-23-07		8-1-07		8-21-07					
Trt-Eval Interval						7 DA-A		16 DA-A		7 DA-A		16 DA-A		15 DA-B		EOS		EOS	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code										
1	NONTREATED									11.8 a	46 c	0 a	0 a	0.5 a	1.8 a-d	5.3 a	8 b	6 a	
2	TOPGUARD	1.04	SC	0.057	lb ai/a	7	fl oz/a	R1-R2	A	12.2 a	58 ab	0 a	0 a	0.5 a	0.3 d	2.0 c	13 b	22 a	
3	TOPGUARD	1.04	SC	0.114	lb ai/a	14	fl oz/a	R1-R2	A	12.0 a	52 bc	0 a	0 a	1.0 a	0.8 cd	2.3 c	8 b	10 a	
4	TOPGUARD	1.04	SC	0.057	lb ai/a	7	fl oz/a	R1-R2	A	13.0 a	62 a	0 a	0 a	0.5 a	1.0 bcd	1.3 c	13 b	19 a	
4	TOPGUARD	1.04	SC	0.057	lb ai/a	7	fl oz/a	21DA-A	C										
5	TOPGUARD	1.04	SC	0.057	lb ai/a	7	fl oz/a	R3-R4	B	12.2 a	55 ab	0 a	0 a	1.0 a	2.8 a	2.3 c	13 b	18 a	
5	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	R3-R4	B										
6	TOPGUARD	1.04	SC	0.057	lb ai/a	7	fl oz/a	R1-R2	A	12.4 a	53 bc	0 a	0 a	0.5 a	0.3 d	2.5 c	25 a	31 a	
6	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	R1-R2	A										
7	FOLICUR	3.6	F	0.113	lb ai/a	4	fl oz/a	R1-R2	A	13.0 a	51 bc	0 a	0 a	0.8 a	2.0 abc	4.5 ab	7 b	14 a	
7	FOLICUR	3.6	F	0.113	lb ai/a	4	fl oz/a	R3-R4	B										
7	FOLICUR	3.6	F	0.113	lb ai/a	4	fl oz/a	21DA-B	D										
8	TBA									12.3 a	50 bc	0 a	0 a	0.8 a	2.5 ab	3.0 bc	9 b	15 a	
LSD (P=.05)										1.36	9.1	0.0	0.0	0.97	1.65	1.96	10.8	39.2	
Replicate F										0.663	0.655	0.000	0.000	3.356	1.318	1.456	0.154	0.009	
Replicate Prob(F)										0.5841	0.5889	1.0000	1.0000	0.0382	0.2951	0.2550	0.9263	0.9988	
Treatment F										0.963	2.860	0.000	0.000	0.452	2.957	4.067	2.633	0.344	
Treatment Prob(F)										0.4824	0.0292	1.0000	1.0000	0.8576	0.0254	0.0058	0.0404	0.9241	

Means followed by same letter do not significantly differ (P=.05, LSD)

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Weed Code
 Crop Code
 Rating Data Type
 Rating Unit
 Rating Date
 Trt-Eval Interval

GLXMA
 STEPOD
 Sever0-5
 EOS

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	
1	NONTREATED									1.8 ab
2	TOPGUARD	1.04	SC	0.057	lb ai/a	7	fl oz/a	R1-R2	A	1.5 ab
3	TOPGUARD	1.04	SC	0.114	lb ai/a	14	fl oz/a	R1-R2	A	1.8 ab
4	TOPGUARD	1.04	SC	0.057	lb ai/a	7	fl oz/a	R1-R2	A	1.0 b
4	TOPGUARD	1.04	SC	0.057	lb ai/a	7	fl oz/a	21DA-A	C	
5	TOPGUARD	1.04	SC	0.057	lb ai/a	7	fl oz/a	R3-R4	B	1.0 b
5	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	R3-R4	B	
6	TOPGUARD	1.04	SC	0.057	lb ai/a	7	fl oz/a	R1-R2	A	1.0 b
6	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	R1-R2	A	
7	FOLICUR	3.6	F	0.113	lb ai/a	4	fl oz/a	R1-R2	A	2.0 a
7	FOLICUR	3.6	F	0.113	lb ai/a	4	fl oz/a	R3-R4	B	
7	FOLICUR	3.6	F	0.113	lb ai/a	4	fl oz/a	21DA-B	D	
8	TBA									1.5 ab
LSD (P=.05)										0.84
Replicate F										0.636
Replicate Prob(F)										0.5999
Treatment F										1.909
Treatment Prob(F)										0.1189

Means followed by same letter do not significantly differ (P=.05, LSD)

Trial Comments

1. Protocol: Cheminova (Bond).
2. Ratings:
3. Applications C+D (21DA) were not applied, not needed.
4. DA-A = Days after R1-R2 application. DA-B = Days after R3-R4 application.
 FROEYE = Frog eye leafspot. Sever0-9 = Severity, rating scale 0-9.
 Leaves = Percent leaves remaining on the plant at harvest. EOS = End of season, at harvest.
 GRESTE = Green stem. STEPOD = Stem and pod diseases, consisting of anthracnose and pod and stem blight.
 Sever0-5 as; 0 = no observable disease, 5 = almost completely black with sporulation.
5. Harvested 10-4-07, (2) 30 inch rows by 20 ft.