

North Central Frogeye Project at Tamms.

Project Code: 05-Tamms-NCFrogeye Location: Tamms, IL

Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Tamms IL 62988 USA
 Trial Status: Final Updated: 11-03-05

Objective:

Screen various fungicides for management of Frogeye leafspot.

Crop 1: GLXMA soybean Variety: Asgrow 4603 RR
 Planting Method: Seeded Planting Date: 5-4-05
 Rate: 75 lb/A Depth: 1.0 IN
 Row Spacing: 18 IN

Plot Width, Unit: 9 FT Plot Length, Unit: 24 FT Reps: 4
 Tillage Type: Conventional-Till Study Design: Randomized complete block
 Previous Crop, Year: GLXMA, 2004

Field Prep./Maintenance: N 0 LB/A, P205 35 LB/A, K20 55 LB/A

APPLICATION DESCRIPTION

	A	B	C
Application Date:	08-01-05	08-19-05	08-19-05
Time of Day:	16:00	15:00	15:00
Application Method:	Spray	Spray	Spray
Application Timing:	R2-R3	21DA-R2-R3	14D-INT
Applic. Placement:	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	91 F	95 F	95 F
% Relative Humidity:	45	70	70
Wind Velocity, Unit:	1-2 MPH	1-2 MPH	1-2 MPH
Soil Moisture:	NORMAL	ABONOR	ABONOR

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	GLXMA 5.1	GLXMA 6.0	GLXMA 6.0
Height, Unit:	40 IN	50 IN	50 IN

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	40 PSI	40 PSI	40 PSI
Nozzle Type:	Flat fan	Flat fan	Flat fan
Nozzle Size:	8002	8002	8002
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA

NOTES:

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

GLXMA Yield bu/A 10-13-05	GLXMA FROEYE Sever0-9 07-16-05 -16 DA-A	GLXMA FROEYE Sever0-9 08-19-05 18 DA-A	GLXMA FROEYE Sever0-9 09-07-05 19 DA-B	GLXMA BROSPO Sever0-5 07-16-05 -16 DA-A	GLXMA BROSPO Sever0-5 08-19-05 18 DA-A
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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA Yield bu/A	GLXMA FROEYE Sever0-9	GLXMA FROEYE Sever0-9	GLXMA FROEYE Sever0-9	GLXMA BROSPO Sever0-5	GLXMA BROSPO Sever0-5
1	NONTREATED									32	1.3	5.8	7.5	2.00	1.25
2	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	R2-R3	A	40	1.8	1.8	2.3	2.00	0.75
2	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R2-R3	A						
3	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	R2-R3	A	38	1.0	1.3	3.0	2.00	1.00
3	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R2-R3	A						
3	FOLICUR	3.6	F	0.112	lb ai/a	4	fl oz/a	21DA-R2-R3	B						
4	HEADLINE SBR (CO-PACK)					7.8	fl oz/a	R2-R3	A	40	1.3	3.3	3.5	2.00	0.75
4	->HEADLINE	2.09	EC	0.077	lb ai/a			R2-R3	A						
4	->FOLICUR	3.6	F	0.087	lb ai/a			R2-R3	A						
4	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R2-R3	A						
5	HEADLINE SBR (CO-PACK)					7.8	fl oz/a	R2-R3	A	39	1.0	1.5	1.8	2.00	0.75
5	->HEADLINE	2.09	EC	0.077	lb ai/a			R2-R3	A						
5	->FOLICUR	3.6	F	0.087	lb ai/a			R2-R3	A						
5	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R2-R3	A						
5	HEADLINE SBR (CO-PACK)					7.8	fl oz/a	21DA-R2-R3	B						
5	->HEADLINE	2.09	EC	0.077	lb ai/a			21DA-R2-R3	B						
5	->FOLICUR	3.6	F	0.087	lb ai/a			21DA-R2-R3	B						
5	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	21DA-R2-R3	B						
6	QUADRIS	2.08	F	0.0975	lb ai/a	6	fl oz/a	R2-R3	A	35	1.5	1.8	4.5	2.00	0.75
6	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	R2-R3	A						
7	QUADRIS EXTRA	2.34	SC	0.073	lb ai/a	4	fl oz/a	R2-R3	A	34	1.0	1.5	4.0	2.00	1.00
7	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	R2-R3	A						
8	QUILT	1.67	F	0.183	lb ai/a	14	fl oz/a	R2-R3	A	36	1.0	1.5	3.8	2.00	1.00
8	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	R2-R3	A						
9	SEE COMMENT #4									34	1.3	5.8	6.0	2.00	1.00
9	QUILT	1.67	F	0.183	lb ai/a	14	fl oz/a	21DA-R2-R3	B						
9	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	21DA-R2-R3	B						
10	FOLICUR	3.6	F	0.112	lb ai/a	4	fl oz/a	R2-R3	A	33	1.3	5.3	6.0	2.00	1.00
11	FOLICUR	3.6	F	0.112	lb ai/a	4	fl oz/a	21DA-R2-R3	B	30	1.3	6.3	7.5	2.00	1.50
12	STRATEGO	2.08	EC	0.114	lb ai/a	7	fl oz/a	R2-R3	A	37	1.8	2.8	4.5	2.00	1.00
12	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R2-R3	A						
13	STRATEGO	2.08	EC	0.114	lb ai/a	7	fl oz/a	21DA-R2-R3	B	31	0.8	5.3	5.8	2.00	1.25
13	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	21DA-R2-R3	B						
14	IMPACT	1	SC	0.109	lb ai/a	14	fl oz/a	R2-R3	A	35	1.0	2.8	3.8	2.00	1.25
15	IMPACT	1	SC	0.109	lb ai/a	14	fl oz/a	21DA-R2-R3	B	32	1.3	6.0	7.0	2.00	1.25
16	IMPACT	1	SC	0.109	lb ai/a	14	fl oz/a	R2-R3	A	34	1.5	4.3	4.3	2.00	1.00
16	IMPACT	1	SC	0.109	lb ai/a	14	fl oz/a	21DA-R2-R3	B						
16	SEE COMMENT #4														
17	ECHO 720	6	L	0.94	lb ai/a	20	fl oz/a	R2-R3	A	33	1.0	2.8	4.5	2.00	0.75
17	ECHO 720	6	L	0.94	lb ai/a	20	fl oz/a	14D-INT	C						
17	SEE COMMENT #4														
LSD (P=.05)										7.9	0.62	1.75	2.62	0.000	0.666
Replicate F										0.606	2.987	0.557	1.338	0.000	2.056
Replicate Prob(F)										0.6142	0.0402	0.6460	0.2729	1.0000	0.1185
Treatment F										1.253	1.636	9.230	3.510	0.000	0.932
Treatment Prob(F)										0.2667	0.0951	0.0001	0.0004	1.0000	0.5402

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Weed Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Code	CERKIK	CERKIK	SDS	SDS	SDS	SDS	STEPOD
Rating Data Type	Sever0-5	Sever0-5	% Incid	Sever0-9	% Incid	Sever0-9	Sever0-9
Rating Unit	07-16-05	08-19-05	07-16-05	07-16-05	08-19-05	08-19-05	10-13-05
Rating Date	18 DA-A	18 DA-A	16 DA-A	16 DA-A	18 DA-A	18 DA-A	EOS
Trt-Eval Interval							

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
1	NONTREATED									1.25	0.25	13	1.3	13	1.5	7.0
2	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	R2-R3	A	1.00	0.25	8	0.5	17	1.5	3.8
2	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R2-R3	A							
3	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	R2-R3	A	1.75	1.50	18	1.3	26	1.0	5.3
3	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R2-R3	A							
3	FOLICUR	3.6	F	0.112	lb ai/a	4	fl oz/a	21DA-R2-R3	B							
4	HEADLINE SBR (CO-PACK)					7.8	fl oz/a	R2-R3	A	1.25	0.00	8	0.5	10	1.3	3.8
4	->HEADLINE	2.09	EC	0.077	lb ai/a			R2-R3	A							
4	->FOLICUR	3.6	F	0.087	lb ai/a			R2-R3	A							
4	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R2-R3	A							
5	HEADLINE SBR (CO-PACK)					7.8	fl oz/a	R2-R3	A	0.75	0.00	5	0.5	21	2.3	3.3
5	->HEADLINE	2.09	EC	0.077	lb ai/a			R2-R3	A							
5	->FOLICUR	3.6	F	0.087	lb ai/a			R2-R3	A							
5	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R2-R3	A							
5	HEADLINE SBR (CO-PACK)					7.8	fl oz/a	21DA-R2-R3	B							
5	->HEADLINE	2.09	EC	0.077	lb ai/a			21DA-R2-R3	B							
5	->FOLICUR	3.6	F	0.087	lb ai/a			21DA-R2-R3	B							
5	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	21DA-R2-R3	B							
6	QUADRIS	2.08	F	0.0975	lb ai/a	6	fl oz/a	R2-R3	A	0.00	0.25	19	1.0	14	1.3	5.0
6	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	R2-R3	A							
7	QUADRIS EXTRA	2.34	SC	0.073	lb ai/a	4	fl oz/a	R2-R3	A	0.25	0.00	13	1.3	18	1.8	4.8
7	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	R2-R3	A							
8	QUILT	1.67	F	0.183	lb ai/a	14	fl oz/a	R2-R3	A	0.25	0.25	18	1.0	16	1.3	5.5
8	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	R2-R3	A							
9	SEE COMMENT #4									0.00	0.00	8	1.0	8	1.8	5.0
9	QUILT	1.67	F	0.183	lb ai/a	14	fl oz/a	21DA-R2-R3	B							
9	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	21DA-R2-R3	B							
10	FOLICUR	3.6	F	0.112	lb ai/a	4	fl oz/a	R2-R3	A	0.25	0.00	13	0.8	18	2.0	5.5
11	FOLICUR	3.6	F	0.112	lb ai/a	4	fl oz/a	21DA-R2-R3	B	0.25	0.50	5	0.5	13	1.3	4.8
12	STRATEGO	2.08	EC	0.114	lb ai/a	7	fl oz/a	R2-R3	A	0.25	0.25	5	0.5	9	1.5	4.0
12	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R2-R3	A							
13	STRATEGO	2.08	EC	0.114	lb ai/a	7	fl oz/a	21DA-R2-R3	B	0.50	0.00	19	1.0	19	1.0	4.8
13	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	21DA-R2-R3	B							
14	IMPACT	1	SC	0.109	lb ai/a	14	fl oz/a	R2-R3	A	0.75	0.00	8	0.8	13	1.3	4.5
15	IMPACT	1	SC	0.109	lb ai/a	14	fl oz/a	21DA-R2-R3	B	0.00	0.00	4	0.8	5	1.0	5.0
16	IMPACT	1	SC	0.109	lb ai/a	14	fl oz/a	R2-R3	A	0.25	0.00	5	0.3	24	1.0	6.3
16	IMPACT	1	SC	0.109	lb ai/a	14	fl oz/a	21DA-R2-R3	B							
16	SEE COMMENT #4															
17	ECHO 720	6	L	0.94	lb ai/a	20	fl oz/a	R2-R3	A	1.50	0.25	13	0.8	15	1.3	5.8
17	ECHO 720	6	L	0.94	lb ai/a	20	fl oz/a	14D-INT	C							
17	SEE COMMENT #4															
LSD (P=.05)										1.644	0.806	22.8	1.31	27.2	1.47	2.52
Replicate F										0.189	1.295	1.059	1.791	0.380	0.348	0.725
Replicate Prob(F)										0.9034	0.2870	0.3752	0.1615	0.7678	0.7904	0.5422
Treatment F										0.946	1.694	0.440	0.453	0.356	0.505	1.145
Treatment Prob(F)										0.5259	0.0808	0.9626	0.9572	0.9866	0.9320	0.3441

Trial Comments

1. Protocol: SIU-Bond.
2. Ratings: CI 7, 14, and 21 DAT; Disease incidence and severity at 21 DAT.
3. Yield.
4. Use 20 fl oz/A of Quilt for treatment #9 if disease incidence is greater than 10%.

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Record the rate that was used. For treatment #9 the 20 fl oz/A rate of Quilt was used.

Treatment 16: at the 21DA-R2-R3 application there was not enough IMPACT 1 SC to apply the planned 14 fl oz/A rate, only 7 fl oz/A was applied.

Treatment 17: the 14D-INT application was delayed due to error and was then applied the same day as the 21DA-R2-R3 application.

5. FROEYE = Frog eye leafspot. BROSPO = Septoria brown spot. CERKIK = Cercospora kikuchii.
SDS = Soybean sudden death syndrome. STEPOD = Stem and pod diseases. % Incid = Percent incidence.
Sever0-5 and Sever0-9 = Severity, rating scales of 0-5 and 0-9, respectively.
DA-A and DA-B = Days after R2-R3 and 21DA-R2-R3 applications, respectively. EOS = End of season.
6. Ratings on 7-16-05 at -16 DA-A were prior to any application.
7. Harvested 10-13-05, (3) 18 inch rows by 20 ft.