

Interaction of Soybean Fungicides and Insecticides with Glyphosate.

Project Code: 06-BP-Glyph-Int Location: Brookport, IL
Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Brookport IL 62910 USA
Trial Status: Final **Updated:** 11-22-06

Objective:

Determine any interaction of glyphosate with soybean fungicides and insecticides efficacy or crop response.

Crop 1: GLXMA soybean **Variety:** FS4646 RR
Planting Method: Seeded **Planting Date:** 6-16-06
Rate: 60 lb/A **Depth:** 1.0 IN
Row Spacing: 30 IN

Plot Width, Unit: 10 FT **Plot Length, Unit:** 30 FT **Reps:** 4
Tillage Type: Reduced-Till **Study Design:** Randomized complete block
Previous Crop, Year: ZEAMX, 2005

APPLICATION DESCRIPTION

	A	B
Application Date:	7-31-06	8-15-06
Time of Day:	10:00	11:00
Application Method:	Spray	Spray
Application Timing:	R1	R3
Applic. Placement:	BROFOL	BROFOL
Air Temp., Unit:	97 F	86 F
% Relative Humidity:	40	43
Wind Velocity, Unit:	2-4 MPH	6 MPH
Dew Presence (Y/N):	N	N
Soil Moisture:	NORMAL	NORMAL
% Cloud Cover:	10	5

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	GLXMA R1	GLXMA R3
Height, Unit:	12-16 IN	21-26 IN

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	CO2 sprayer	CO2 sprayer
Operating Pressure:	30-40 PSI	30-40 PSI
Nozzle Type:	Flat fan	Flat fan
Nozzle Size:	8002	8002
Boom Length, Unit:	7.5 FT	7.5 FT
Spray Volume, Unit:	15 GPA	15 GPA

NOTES:

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Crop Code				GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA					
Rating Data Type				Moisture	Test wt.	Yield	Yield	Injury	Injury	Injury	FROEYE	BROSPO						
Rating Unit				Percent	lb/bu	bu/A	bu/A	Percent	Percent	Percent	Sever0-9	Sever0-5						
Rating Date				11-4-06	11-4-06	11-4-06	10-24-06											
Trt-Eval Interval								7 DAT	14 DAT	28 DAT	21 DAT	21 DAT						
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code									
1	NONTREATED									12.0	53.0	39	58	0	0	0	0.1	0.25
2	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		R1	A	11.6	52.5	44	60	0	0	0	0.3	0.00
2	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		R1	A									
3	QUADRIS	2.08 F		0.0975 lb ai/a		6 fl oz/a		R1	A	11.7	52.7	43	60	0	0	0	0.0	0.00
3	PRIME OIL COC	100 LIQ		1.0 % v/v		1 % v/v		R1	A									
4	HEADLINE	2.09 EC		0.098 lb ai/a		6 fl oz/a		R1	A	11.7	52.6	47	58	0	0	0	0.1	0.00
4	ACTIVATOR 90	100 LIQ		0.125 % v/v		0.125 % v/v		R1	A									
5	FOLICUR	3.6 F		0.112 lb ai/a		4 fl oz/a		R1	A	12.2	53.0	42	59	0	0	0	0.1	0.00
5	ACTIVATOR 90	100 LIQ		0.125 % v/v		0.125 % v/v		R1	A									
6	QUILT	1.67 F		0.183 lb ai/a		14 fl oz/a		R1	A	11.4	52.5	46	62	1	0	0	0.1	0.00
6	PRIME OIL COC	100 LIQ		1.0 % v/v		1 % v/v		R1	A									
7	WARRIOR	1 CS		0.02 lb ai/a		2.56 fl oz/a		R1	A	11.5	52.5	41	64	0	0	0	0.1	0.00
8	QUADRIS	2.08 F		0.0975 lb ai/a		6 fl oz/a		R1	A	11.6	52.8	47	60	0	0	0	0.0	0.00
8	WARRIOR	1 CS		0.02 lb ai/a		2.56 fl oz/a		R1	A									
8	PRIME OIL COC	100 LIQ		1.0 % v/v		1 % v/v		R1	A									
9	HEADLINE	2.09 EC		0.098 lb ai/a		6 fl oz/a		R1	A	11.6	52.6	47	61	0	0	0	0.1	0.00
9	WARRIOR	1 CS		0.02 lb ai/a		2.56 fl oz/a		R1	A									
9	ACTIVATOR 90	100 LIQ		0.125 % v/v		0.125 % v/v		R1	A									
10	FOLICUR	3.6 F		0.112 lb ai/a		4 fl oz/a		R1	A	11.8	52.7	36	60	0	0	0	0.1	0.00
10	WARRIOR	1 CS		0.02 lb ai/a		2.56 fl oz/a		R1	A									
10	ACTIVATOR 90	100 LIQ		0.125 % v/v		0.125 % v/v		R1	A									
11	QUILT	1.67 F		0.183 lb ai/a		14 fl oz/a		R1	A	11.7	52.6	44	61	0	0	0	0.1	0.00
11	WARRIOR	1 CS		0.02 lb ai/a		2.56 fl oz/a		R1	A									
11	PRIME OIL COC	100 LIQ		1.0 % v/v		1 % v/v		R1	A									
12	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		R1	A	11.7	52.4	47	61	1	0	0	0.1	0.00
12	QUADRIS	2.08 F		0.0975 lb ai/a		6 fl oz/a		R1	A									
12	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		R1	A									
13	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		R1	A	11.8	52.7	45	60	1	0	0	0.1	0.00
13	HEADLINE	2.09 EC		0.098 lb ai/a		6 fl oz/a		R1	A									
13	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		R1	A									
14	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		R1	A	11.8	52.6	43	61	0	0	0	0.1	0.00
14	FOLICUR	3.6 F		0.112 lb ai/a		4 fl oz/a		R1	A									
14	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		R1	A									
15	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		R1	A	11.4	52.1	43	58	1	0	0	0.1	0.00
15	QUILT	1.67 F		0.183 lb ai/a		14 fl oz/a		R1	A									
15	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		R1	A									
16	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		R1	A	11.7	52.2	45	60	1	0	0	0.1	0.00
16	WARRIOR	1 CS		0.02 lb ai/a		2.56 fl oz/a		R1	A									
16	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		R1	A									
17	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		R1	A	11.6	52.2	39	62	1	0	0	0.0	0.00
17	QUADRIS	2.08 F		0.0975 lb ai/a		6 fl oz/a		R1	A									
17	WARRIOR	1 CS		0.02 lb ai/a		2.56 fl oz/a		R1	A									
17	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		R1	A									
18	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		R1	A	11.9	52.6	39	63	1	0	0	0.1	0.00
18	HEADLINE	2.09 EC		0.098 lb ai/a		6 fl oz/a		R1	A									
18	WARRIOR	1 CS		0.02 lb ai/a		2.56 fl oz/a		R1	A									
18	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		R1	A									
19	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		R1	A	11.8	52.3	35	61	1	0	0	0.3	0.00
19	FOLICUR	3.6 F		0.112 lb ai/a		4 fl oz/a		R1	A									
19	WARRIOR	1 CS		0.02 lb ai/a		2.56 fl oz/a		R1	A									
19	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		R1	A									
20	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		R1	A	11.7	51.8	39	59	1	1	0	0.0	0.00
20	QUILT	1.67 F		0.183 lb ai/a		14 fl oz/a		R1	A									
20	WARRIOR	1 CS		0.02 lb ai/a		2.56 fl oz/a		R1	A									
20	AMS	100 DRY		2.0 % w/w		17 lb/100 gal		R1	A									

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Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type	Moisture	Test wt.	Yield	Yield	Injury	Injury	Injury	FROEYE	BROSPO
Rating Unit	Percent	lb/bu	bu/A	bu/A	Percent	Percent	Percent	Sever0-9	Sever0-5
Rating Date	11-4-06	11-4-06	11-4-06	10-24-06					
Trt-Eval Interval					7 DAT	14 DAT	28 DAT	21 DAT	21 DAT

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code									
21	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R3	B	11.8	53.0	39	60	0	0	0	2.3	1.25
21	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R3	B									
22	QUADRIS	2.08	F	0.0975	lb ai/a	6	fl oz/a	R3	B	11.8	52.5	41	59	0	0	0	0.1	0.00
22	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	R3	B									
23	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	R3	B	11.9	52.6	52	60	0	0	0	0.1	0.00
23	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R3	B									
24	FOLICUR	3.6	F	0.112	lb ai/a	4	fl oz/a	R3	B	11.5	52.5	42	61	0	0	0	0.5	1.25
24	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R3	B									
25	QUILT	1.67	F	0.183	lb ai/a	14	fl oz/a	R3	B	11.8	52.4	46	65	0	0	0	0.0	0.00
25	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	R3	B									
26	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R3	B	12.0	52.6	45	61	0	0	0	3.0	1.75
27	QUADRIS	2.08	F	0.0975	lb ai/a	6	fl oz/a	R3	B	11.7	52.5	47	64	0	0	0	0.1	1.00
27	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R3	B									
27	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	R3	B									
28	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	R3	B	11.4	52.7	48	61	0	0	0	0.0	0.00
28	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R3	B									
28	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R3	B									
29	FOLICUR	3.6	F	0.112	lb ai/a	4	fl oz/a	R3	B	11.7	52.4	47	61	0	0	0	0.7	0.00
29	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R3	B									
29	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R3	B									
30	QUILT	1.67	F	0.183	lb ai/a	14	fl oz/a	R3	B	11.4	52.4	42	61	0	0	0	0.0	0.00
30	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R3	B									
30	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	R3	B									
31	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R3	B	11.4	52.2	37	59	0	0	0	0.4	0.75
31	QUADRIS	2.08	F	0.0975	lb ai/a	6	fl oz/a	R3	B									
31	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R3	B									
32	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R3	B	11.4	52.2	43	62	0	0	0	0.0	0.00
32	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	R3	B									
32	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R3	B									
33	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R3	B	11.8	52.9	43	61	0	1	0	0.6	0.25
33	FOLICUR	3.6	F	0.112	lb ai/a	4	fl oz/a	R3	B									
33	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R3	B									
34	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R3	B	11.6	52.9	45	60	0	2	0	0.0	0.00
34	QUILT	1.67	F	0.183	lb ai/a	14	fl oz/a	R3	B									
34	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R3	B									
35	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R3	B	11.6	52.2	44	57	0	0	0	1.6	1.00
35	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R3	B									
35	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R3	B									
36	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R3	B	11.8	52.5	45	58	0	0	0	0.2	0.25
36	QUADRIS	2.08	F	0.0975	lb ai/a	6	fl oz/a	R3	B									
36	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R3	B									
36	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R3	B									
37	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R3	B	11.3	52.1	45	64	0	0	0	0.2	0.00
37	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	R3	B									
37	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R3	B									
37	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R3	B									
38	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R3	B	11.4	52.5	37	61	0	0	0	0.4	0.25
38	FOLICUR	3.6	F	0.112	lb ai/a	4	fl oz/a	R3	B									
38	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R3	B									
38	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R3	B									
39	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R3	B	11.2	51.3	39	61	0	0	0	0.1	0.00
39	QUILT	1.67	F	0.183	lb ai/a	14	fl oz/a	R3	B									
39	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R3	B									
39	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R3	B									

LSD (P=0.05)	0.64	0.85	9.0	5.7	0.3	0.4	0.1	0.45	0.667
Replicate F	0.264	5.380	0.515	82.547	1.696	0.740	1.000	1.194	6.107
Replicate Prob(F)	0.8513	0.0017	0.6724	0.0001	0.1718	0.5305	0.3956	0.3152	0.0007
Treatment F	0.911	1.117	1.251	0.847	8.866	3.073	1.000	14.901	3.417
Treatment Prob(F)	0.6192	0.3217	0.1838	0.7091	0.0001	0.0001	0.4824	0.0001	0.0001

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

SIU SIU SIU U of I U of I
 GLXMA GLXMA GLXMA GLXMA GLXMA
 DOWMIL SDS SDS Injury Injury
 Sever0-5 % Incid Sever0-9 Percent Percent
 8-3-06 8-23-06
 21 DAT 21 DAT 21 DAT

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code					
1	NONTREATED										1.25	0	0.0	0
2	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R1	A		1.00	0	0.0	0
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R1	A					
3	QUADRIS	2.08	F	0.0975	lb ai/a	6	fl oz/a	R1	A		1.25	0	0.0	0
3	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	R1	A					
4	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	R1	A		1.50	0	0.0	0
4	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R1	A					
5	FOLICUR	3.6	F	0.112	lb ai/a	4	fl oz/a	R1	A		1.25	0	0.0	0
5	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R1	A					
6	QUILT	1.67	F	0.183	lb ai/a	14	fl oz/a	R1	A		1.25	0	0.0	0
6	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	R1	A					
7	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R1	A		1.25	0	0.0	0
8	QUADRIS	2.08	F	0.0975	lb ai/a	6	fl oz/a	R1	A		1.00	0	0.0	0
8	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R1	A					
8	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	R1	A					
9	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	R1	A		1.25	0	0.0	0
9	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R1	A					
9	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R1	A					
10	FOLICUR	3.6	F	0.112	lb ai/a	4	fl oz/a	R1	A		1.25	0	0.0	0
10	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R1	A					
10	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R1	A					
11	QUILT	1.67	F	0.183	lb ai/a	14	fl oz/a	R1	A		1.25	0	0.0	0
11	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R1	A					
11	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	R1	A					
12	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R1	A		1.00	0	0.0	0
12	QUADRIS	2.08	F	0.0975	lb ai/a	6	fl oz/a	R1	A					
12	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R1	A					
13	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R1	A		1.50	0	0.0	0
13	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	R1	A					
13	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R1	A					
14	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R1	A		1.00	0	0.0	0
14	FOLICUR	3.6	F	0.112	lb ai/a	4	fl oz/a	R1	A					
14	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R1	A					
15	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R1	A		1.25	0	0.0	0
15	QUILT	1.67	F	0.183	lb ai/a	14	fl oz/a	R1	A					
15	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R1	A					
16	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R1	A		1.25	0	0.0	0
16	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R1	A					
16	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R1	A					
17	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R1	A		1.25	0	0.0	0
17	QUADRIS	2.08	F	0.0975	lb ai/a	6	fl oz/a	R1	A					
17	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R1	A					
17	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R1	A					
18	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R1	A		1.50	0	0.0	0
18	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	R1	A					
18	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R1	A					
18	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R1	A					
19	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R1	A		1.00	0	0.0	0
19	FOLICUR	3.6	F	0.112	lb ai/a	4	fl oz/a	R1	A					
19	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R1	A					
19	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R1	A					
20	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R1	A		1.00	0	0.0	0
20	QUILT	1.67	F	0.183	lb ai/a	14	fl oz/a	R1	A					
20	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R1	A					
20	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R1	A					

Interaction of Soybean Fungicides and Insecticides with Glyphosate.

Project Code: 06-BP-Glyph-Int Location: Brookport, IL
 Investigator: Bryan Young

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

SIU SIU SIU U of I U of I
 GLXMA GLXMA GLXMA GLXMA GLXMA
 DOWMIL SDS SDS Injury Injury
 Sever0-5 % Incid Sever0-9 Percent Percent
 8-3-06 8-23-06
 21 DAT 21 DAT 21 DAT

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code					
21	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R3	B	2.25	0	0.0	7	0
21	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R3	B					
22	QUADRIS	2.08	F	0.0975	lb ai/a	6	fl oz/a	R3	B	1.50	0	0.0		0
22	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	R3	B					
23	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	R3	B	2.25	0	0.0		0
23	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R3	B					
24	FOLICUR	3.6	F	0.112	lb ai/a	4	fl oz/a	R3	B	2.00	0	0.0		0
24	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R3	B					
25	QUILT	1.67	F	0.183	lb ai/a	14	fl oz/a	R3	B	2.00	0	0.0		0
25	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	R3	B					
26	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R3	B	1.50	0	0.0		0
27	QUADRIS	2.08	F	0.0975	lb ai/a	6	fl oz/a	R3	B	1.75	0	0.0		0
27	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R3	B					
27	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	R3	B					
28	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	R3	B	1.75	0	0.0		0
28	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R3	B					
28	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R3	B					
29	FOLICUR	3.6	F	0.112	lb ai/a	4	fl oz/a	R3	B	1.50	1	0.3		0
29	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R3	B					
29	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R3	B					
30	QUILT	1.67	F	0.183	lb ai/a	14	fl oz/a	R3	B	1.50	0	0.0		0
30	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R3	B					
30	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	R3	B					
31	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R3	B	1.75	0	0.0	8	0
31	QUADRIS	2.08	F	0.0975	lb ai/a	6	fl oz/a	R3	B					
31	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R3	B					
32	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R3	B	1.75	0	0.0	5	0
32	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	R3	B					
32	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R3	B					
33	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R3	B	2.00	1	0.3	7	0
33	FOLICUR	3.6	F	0.112	lb ai/a	4	fl oz/a	R3	B					
33	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R3	B					
34	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R3	B	1.50	0	0.0	6	0
34	QUILT	1.67	F	0.183	lb ai/a	14	fl oz/a	R3	B					
34	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R3	B					
35	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R3	B	1.50	0	0.0	10	0
35	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R3	B					
35	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R3	B					
36	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R3	B	1.25	0	0.0	9	0
36	QUADRIS	2.08	F	0.0975	lb ai/a	6	fl oz/a	R3	B					
36	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R3	B					
36	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R3	B					
37	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R3	B	1.25	0	0.0	4	0
37	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	R3	B					
37	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R3	B					
37	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R3	B					
38	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R3	B	1.50	3	0.8	4	0
38	FOLICUR	3.6	F	0.112	lb ai/a	4	fl oz/a	R3	B					
38	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R3	B					
38	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R3	B					
39	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R3	B	1.25	0	0.0	6	0
39	QUILT	1.67	F	0.183	lb ai/a	14	fl oz/a	R3	B					
39	WARRIOR	1	CS	0.02	lb ai/a	2.56	fl oz/a	R3	B					
39	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	R3	B					

LSD (P=05)

Replicate F
 Replicate Prob(F)
 Treatment F
 Treatment Prob(F)

0.789	1.0	0.19	2.1	0.0
9.197	2.510	2.175	8.687	0.000
0.0001	0.0623	0.0949	0.0023	1.0000
1.437	2.192	3.651	7.313	0.000
0.0738	0.0008	0.0001	0.0002	1.0000

Interaction of Soybean Fungicides and Insecticides with Glyphosate.

Project Code: 06-BP-Glyph-Int Location: Brookport, IL
Investigator: Bryan Young

Trial Comments

1. Protocol: ISA.
2. Ratings: Crop response 7, 14, and 28 DAT; pest control (insects or diseases) at 21 DAT.
3. Yield - (seed quality?).
4. Blanket application and weed-free.
Blanket POST application of Sequence (3 pt/A) + Firstrate (0.3 oz/A) + AMS (8.5 lb/100 gal) applied to V2-V3 soybean on 7-11-06.
5. FROEYE = Frog eye leafspot. BROSPO = Septoria brown spot. DOWMIL = downy mildew.
SDS = Soybean sudden death syndrome. % Incid = Percent incidence.
Sever0-5 and Sever0-9 = Severity, rating scales of 0-5 and 0-9, respectively.
DAT = Days after treatment.
Study was conducted at multiple locations. SIU = Southern Illinois University. U of I = University of Illinois.
6. Ratings at 7 days after the R1 and R3 applications were on 8-7-06 and 8-22-06, respectively.
Ratings at 14 days after the R1 and R3 applications were on 8-14-06 and 8-29-06, respectively.
Ratings at 21 days after the R1 and R3 applications were on 8-21-06 and 9-5-06, respectively.
Ratings at 28 days after the R1 and R3 applications were on 8-28-06 and 9-12-06, respectively.
7. Harvested 11-4-06, (2) 30 inch rows by 25 ft.