

Southern Illinois University

Potential for Soybean Injury from Metsulfuron Application in Wheat.

Trial ID: 13-23E-N140 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Trial Status: F one-year/final Initiation Date: 11-1-12 Completion Date: 10-28-13		Trial Location
City: Belleville State/Prov.: Illinois IL Postal Code: 62221	Country: USA	

Objectives:
Evaluate the potential for soybean injury following wheat with DuPont herbicides.

Study Director: Bryan Young Organization: Southern Illinois University Address: 1205 Lincoln Drive - AG 176 - MC 4415 City+State/Prov: Carbondale IL Postal Code: 62901 Country: USA		Title: Professor Phone No.: 618-453-7679 Mobile No.: 618-713-6471 E-mail: bgyoung@siu.edu
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Crop 1: TRZAW Triticum aestivum (winter) Winter wheat Variety: P25R62 Planting Rate, Unit: 1.5 millionS/A Depth, Unit: 1 IN Row Spacing, Unit: 7.5 IN Soil Temperature, Unit: 39 F Soil Moisture: NORMAL Seed Bed: FINE		Planting Date: 11-1-12 Planting Method: SEDED
Crop 2: GLXMA Glycine max Soybean Variety: See comments Planting Rate, Unit: 75 LB/A Depth, Unit: 1 IN Row Spacing, Unit: 30 IN		Planting Date: 6-28-13 Planting Method: SEDED

Pest 1 Type: W Code: STEME <i>Stellaria media</i> (L.) Vill. Common Name: chickweed, common		Pest Description
Pest 2 Type: W Code: LAMAM <i>Lamium amplexicaule</i> L. Common Name: henbit		

Treated Plot Width: 10 FT Total Plot Width: 10 FT Treated Plot Length: 30 FT Total Plot Length: 30 FT		Site Type: FIELD Experimental Unit: 1 PLOT Tillage Type: REDTIL reduced-till Study Design: RACOB� Randomized Complete Block (RCB)
Replications: 3 Untreated Arrangement: INCLUDED single control randomized in each block		

No.	Previous Crop	Year
1.	BRSNN	2012

Maintenance	
No.	Maintenance Product Name
1.	Fall: N 30 LB/A, P2O5 0 LB/A, K2O 0 LB/A
2.	Spring: N 85 LB/A, P2O5 0 LB/A, K2O 0 LB/A

% OM: 2.3 Texture: SIL silt loam pH: 5.8 Soil Name: Winfield CEC: 6		Soil Description

Element	Quantity	Unit
P1	56	lb/A
K	302	lb/A

Overall Moisture Conditions: ABONOR Closest Weather Station: ICN - Belleville IL		Distance, Unit: 0.5 MI
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No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	10-21-12					7	DAY	34	81	F
2.	10-22-12	0.68	IN	RAIN	rain	2	DAY			
3.	10-25-12	0.41	IN	RAIN	rain	2	DAY			
4.	10-28-12					7	DAY	33	61	F
5.	11-4-12					7	DAY	28	76	F
6.	11-5-12	0.09	IN	RAIN	rain	3	DAY			
7.	11-11-12	1.54	IN	RAIN	rain	2	DAY			
8.	11-11-12					7	DAY	25	67	F
9.	11-18-12					7	DAY	23	67	F
10.	11-22-12	0.23	IN	RAIN	rain	1	DAY			
11.	11-25-12					7	DAY	22	67	F
12.	12-2-12					7	DAY	31	71	F
13.	12-4-12	0.1	IN	RAIN	rain	1	DAY			
14.	12-9-12	0.18	IN	RAIN	rain	2	DAY			
15.	12-9-12					7	DAY	20	60	F
16.	12-15-12	0.44	IN	RAIN	rain	1	DAY			
17.	12-16-12					7	DAY	19	56	F
18.	12-20-12	5.07	IN	RAIN	rain	1	DAY			
19.	12-23-12					7	DAY	14	52	F
20.	12-28-12	0.26	IN	RAIN	rain	1	DAY			
21.	12-30-12					7	DAY	10	41	F
22.	12-31-12	0.11	IN	RAIN	rain	1	DAY			
23.	1-6-13					7	DAY	18	62	F
24.	1-10-13	0.72	IN	RAIN	rain	2	DAY			
25.	1-12-13	1.84	IN	RAIN	rain	2	DAY			
26.	1-13-13					7	DAY	16	64	F
27.	1-20-13					7	DAY	10	45	F
28.	1-27-13					7	DAY	7	67	F
29.	1-29-13	2.36	IN	RAIN	rain	3	DAY			
30.	2-3-13	0.2	IN	RAIN	rain	2	DAY			
31.	2-3-13					7	DAY	22	57	F
32.	2-7-13	0.13	IN	RAIN	rain	1	DAY			
33.	2-10-13	0.74	IN	RAIN	rain	2	DAY			
34.	2-10-13					7	DAY	21	58	F
35.	2-17-13					7	DAY	16	54	F
36.	2-18-13	0.12	IN	RAIN	rain	1	DAY			
37.	2-21-13	0.39	IN	RAIN	rain	2	DAY			
38.	2-24-13					7	DAY	17	49	F
39.	2-26-13	0.8	IN	RAIN	rain	3	DAY			
40.	3-3-13					7	DAY	19	66	F
41.	3-10-13	0.71	IN	RAIN	rain	2	DAY			
42.	3-10-13					7	DAY	25	68	F
43.	3-17-13	1.43	IN	RAIN	rain	3	DAY			
44.	3-17-13					7	DAY	19	53	F
45.	3-24-13	0.41	IN	RAIN	rain	1	DAY			
46.	3-24-13					7	DAY	22	60	F
47.	3-30-13	0.13	IN	RAIN	rain	1	DAY			
48.	3-31-13					7	DAY	27	71	F
49.	4-7-13					7	DAY	34	82	F
50.	4-10-13	1.4	IN	RAIN	rain	2	DAY			
51.	4-14-13					7	DAY	31	82	F
52.	4-16-13	1.05	IN	RAIN	rain	2	DAY			
53.	4-18-13	5.2	IN	RAIN	rain	1	DAY			
54.	4-21-13					7	DAY	35	72	F
55.	4-23-13	1.35	IN	RAIN	rain	2	DAY			
56.	4-27-13	0.3	IN	RAIN	rain	2	DAY			
57.	4-28-13					7	DAY	41	83	F
58.	5-3-13	3.07	IN	RAIN	rain	4	DAY			

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59.	5-5-13					7	DAY	46	80	F
60.	5-9-13	0.35	IN	RAIN	rain	2	DAY			
61.	5-12-13					7	DAY	39	92	F
62.	5-16-13	0.55	IN	RAIN	rain	2	DAY			
63.	5-19-13					7	DAY	45	88	F
64.	5-20-13	0.67	IN	RAIN	rain	2	DAY			
65.	5-26-13					7	DAY	56	86	F
66.	5-27-13	1.23	IN	RAIN	rain	2	DAY			
67.	5-30-13	0.51	IN	RAIN	rain	3	DAY			
68.	5-31-13	3.46	IN	RAIN	rain	2	DAY			
69.	6-2-13					7	DAY	50	80	F
70.	6-9-13					7	DAY	59	94	F
71.	6-10-13	0.48	IN	RAIN	rain	2	DAY			
72.	6-16-13					7	DAY	61	90	F
73.	6-17-13	2.16	IN	RAIN	rain	3	DAY			
74.	6-23-13	5.33	IN	RAIN	rain	2	DAY			
75.	6-23-13					7	DAY	64	92	F
76.	6-26-13	0.46	IN	RAIN	rain	1	DAY			
77.	6-29-13	0.19	IN	RAIN	rain	2	DAY			
78.	6-30-13					7	DAY	61	86	F
79.	7-2-13	2.08	IN	RAIN	rain	2	DAY			
80.	7-7-13					7	DAY	62	94	F
81.	7-10-13	0.2	IN	RAIN	rain	1	DAY			
82.	7-14-13					7	DAY	64	94	F
83.	7-15-13	0.03	IN	RAIN	rain	1	DAY			
84.	7-20-13	0.59	IN	RAIN	rain	1	DAY			
85.	7-21-13					7	DAY	56	91	F
86.	7-26-13	0.03	IN	RAIN	rain	1	DAY			
87.	7-28-13					7	DAY	52	87	F
88.	7-30-13	0.46	IN	RAIN	rain	1	DAY			
89.	8-2-13	0.24	IN	RAIN	rain	1	DAY			
90.	8-4-13					7	DAY	62	87	F
91.	8-8-13	0.03	IN	RAIN	rain	3	DAY			
92.	8-11-13					7	DAY	54	85	F
93.	8-12-13	0.57	IN	RAIN	rain	1	DAY			
94.	8-18-13	0.1	IN	RAIN	rain	1	DAY			
95.	8-18-13					7	DAY	61	91	F

Application Description

	A	B	C	D
Application Date:	2-28-13	4-29-13	6-28-13	7-26-13
Appl. Start Time:	7:00	8:00	13:30	8:30
Appl. Stop Time:	8:00	8:30	14:00	9:00
Application Method:	Spray	Spray	Spray	Spray
Application Timing:	120DBP	60DBP	PRE	POST
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL
Applied By:	RFK	RFK	RJW	RJW
Air Temperature, Unit:	32 F	57 F	87 F	72 F
% Relative Humidity:	89	100	36	73
Wind Velocity, Unit:	8 MPH	3 MPH	9 MPH	4 MPH
Wind Direction:	W	S	W	S
Dew Presence (Y/N):	N	N	N	N
Soil Temperature, Unit:	37 F	55 F	78 F	75 F
Soil Moisture:	ABONOR	ABONOR	ABONOR	NORMAL
% Cloud Cover:	100	0	25	100
Next Moisture Occurred On:	3-10-13	5-2-13	6-29-13	7-26-13
Time to Next Moisture, Unit:	10 DAY	3 D	28 HR	6 HR

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	A	B	C	D
Crop 1 Code, BBCH Scale:	TRZAW	TRZAW	TRZAW	TRZAW
Stage Scale Used:	DESC	DESC	DESC	DESC
Stage Majority, Percent:	F2	F6	NA	NA
Stage Minimum, Percent:	F2	F6		
Stage Maximum, Percent:	F2	F6		
Height, Unit:	3 IN	16 IN		
Height Minimum, Maximum:	1 3	12 16		
Crop 2 Code, BBCH Scale:	GLXMA	GLXMA	GLXMA	GLXMA
Stage Scale Used:	DESC	DESC	DESC	DESC
Stage Majority, Percent:	NA	NA	NA	V4
Stage Minimum, Percent:				V4
Stage Maximum, Percent:				V4
Height, Unit:				12 IN
Height Minimum, Maximum:				8 12

Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Type, Scale:	STEME W	STEME W	STEME W	STEME W
Stage Majority, Percent:	10+	10+	NA	NA
Stage Minimum, Percent:	10	10		
Stage Maximum, Percent:	10+	10+		
Height, Unit:	2 IN	4 IN		
Height Minimum, Maximum:	1 2	2 4		
Density, Unit:	0.001 FT2	0.01 FT2		
Pest 2 Code, Type, Scale:	LAMAM W	LAMAM W	LAMAM W	LAMAM W
Stage Majority, Percent:	10+	10+	NA	NA
Stage Minimum, Percent:	10	10		
Stage Maximum, Percent:	10+	10+		
Height, Unit:	2 IN	6 IN		
Height Minimum, Maximum:	1 2	4 8		
Density, Unit:	0.001 FT2	0.01 FT2		

Application Equipment

	A	B	C	D
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer
Equipment Type:	BACSPR	BACSPR	BACSPR	BACSPR
Operation Pressure, Unit:	30 PSI	30 PSI	30 PSI	30 PSI
Nozzle Type:	XR	XR	TTI	XR
Nozzle Size:	8002	8002	11002	8002
Boom Length, Unit:	10 FT	10 FT	10 FT	10 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA	15 GPA

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Pest Code Crop Code Crop Variety Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval										GLXMA AG3833 STS 10-28-13 Moisture Percent	GLXMA AG3832 10-28-13 Moisture Percent	GLXMA AG3833 STS 10-28-13 Test wt. lb/bu	GLXMA AG3832 10-28-13 Test wt. lb/bu
Trt	Treatment No. Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.00125 lb ai/a 0.028 lb ai/a 0.25 % v/v 2 lb/a		0.0333 oz/a 0.9 oz/a 0.25 % v/v 2 lb/a		120DBP A 120DBP A 120DBP A 120DBP A		10.4 a	10.0 a	57.2 a	57.5 a
2	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.0025 lb ai/a 0.056 lb ai/a 0.25 % v/v 2 lb/a		0.0667 oz/a 1.8 oz/a 0.25 % v/v 2 lb/a		120DBP A 120DBP A 120DBP A 120DBP A		10.6 a	10.2 a	56.7 a	57.1 a
3	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.00375 lb ai/a 0.084 lb ai/a 0.25 % v/v 2 lb/a		0.1 oz/a 2.7 oz/a 0.25 % v/v 2 lb/a		120DBP A 120DBP A 120DBP A 120DBP A		10.2 a	9.9 a	57.6 a	57.9 a
4	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.00125 lb ai/a 0.028 lb ai/a 0.25 % v/v 2 lb/a		0.0333 oz/a 0.9 oz/a 0.25 % v/v 2 lb/a		60DBP B 60DBP B 60DBP B 60DBP B		10.2 a	9.9 a	57.3 a	57.6 a
5	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.0025 lb ai/a 0.056 lb ai/a 0.25 % v/v 2 lb/a		0.0667 oz/a 1.8 oz/a 0.25 % v/v 2 lb/a		60DBP B 60DBP B 60DBP B 60DBP B		10.1 a	9.8 a	57.6 a	57.9 a
6	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.00375 lb ai/a 0.084 lb ai/a 0.25 % v/v 2 lb/a		0.1 oz/a 2.7 oz/a 0.25 % v/v 2 lb/a		60DBP B 60DBP B 60DBP B 60DBP B		10.1 a	9.9 a	57.7 a	57.9 a
7	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS ENVIVE	60 WG 50 SG 100 SL 100 SG 41.3 WG		0.00125 lb ai/a 0.028 lb ai/a 0.25 % v/v 2 lb/a 0.103 lb ai/a		0.0333 oz/a 0.9 oz/a 0.25 % v/v 2 lb/a 4.00 oz/a		120DBP A 120DBP A 120DBP A 120DBP A PRE C		10.4 a	10.0 a	57.2 a	57.6 a
8	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS ENVIVE	60 WG 50 SG 100 SL 100 SG 41.3 WG		0.0025 lb ai/a 0.056 lb ai/a 0.25 % v/v 2 lb/a 0.103 lb ai/a		0.0667 oz/a 1.8 oz/a 0.25 % v/v 2 lb/a 4.00 oz/a		120DBP A 120DBP A 120DBP A 120DBP A PRE C		10.0 a	9.8 a	57.7 a	58.0 a
9	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS ENVIVE	60 WG 50 SG 100 SL 100 SG 41.3 WG		0.00375 lb ai/a 0.084 lb ai/a 0.25 % v/v 2 lb/a 0.103 lb ai/a		0.1 oz/a 2.7 oz/a 0.25 % v/v 2 lb/a 4.00 oz/a		120DBP A 120DBP A 120DBP A 120DBP A PRE C		10.0 a	9.8 a	57.7 a	57.9 a
10	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS ENVIVE	60 WG 50 SG 100 SL 100 SG 41.3 WG		0.00125 lb ai/a 0.028 lb ai/a 0.25 % v/v 2 lb/a 0.103 lb ai/a		0.0333 oz/a 0.9 oz/a 0.25 % v/v 2 lb/a 4.00 oz/a		60DBP B 60DBP B 60DBP B 60DBP B PRE C		10.1 a	9.8 a	57.6 a	57.9 a
11	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS ENVIVE	60 WG 50 SG 100 SL 100 SG 41.3 WG		0.0025 lb ai/a 0.056 lb ai/a 0.25 % v/v 2 lb/a 0.103 lb ai/a		0.0667 oz/a 1.8 oz/a 0.25 % v/v 2 lb/a 4.00 oz/a		60DBP B 60DBP B 60DBP B 60DBP B PRE C		10.1 a	9.9 a	57.5 a	57.7 a

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Pest Code Crop Code Crop Variety Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								GLXMA AG3833 STS 10-28-13 Moisture Percent	GLXMA AG3832 10-28-13 Moisture Percent	GLXMA AG3833 STS 10-28-13 Test wt. lb/bu	GLXMA AG3832 10-28-13 Test wt. lb/bu
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
12	ALLY XP	60 WG		0.00375 lb ai/a		0.1 oz/a		60DBP B		10.0 a	9.9 a
	HARMONY EXTRA SG	50 SG		0.084 lb ai/a		2.7 oz/a		60DBP B			
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		60DBP B		57.8 a	57.9 a
	AMS	100 SG		2 lb/a		2 lb/a		60DBP B			
	ENVIVE	41.3 WG		0.103 lb ai/a		4.00 oz/a		PRE C			
13	ALLY XP	60 WG		0.0025 lb ai/a		0.0667 oz/a		120DBP A		10.0 a	9.9 a
	HARMONY EXTRA SG	50 SG		0.056 lb ai/a		1.8 oz/a		120DBP A			
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		120DBP A		57.8 a	57.9 a
	AMS	100 SG		2 lb/a		2 lb/a		120DBP A			
	CLASSIC	25 WG		0.0078 lb ai/a		0.5 oz/a		POST D			
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		POST D			
	AMS	100 SG		2 lb/a		2 lb/a		POST D			
14	ALLY XP	60 WG		0.0025 lb ai/a		0.0667 oz/a		60DBP B		10.3 a	10.1 a
	HARMONY EXTRA SG	50 SG		0.056 lb ai/a		1.8 oz/a		60DBP B			
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		60DBP B		57.3 a	57.5 a
	AMS	100 SG		2 lb/a		2 lb/a		60DBP B			
	CLASSIC	25 WG		0.0078 lb ai/a		0.5 oz/a		POST D			
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		POST D			
	AMS	100 SG		2 lb/a		2 lb/a		POST D			
15	ALLY XP	60 WG		0.0025 lb ai/a		0.0667 oz/a		120DBP A		10.1 a	9.9 a
	HARMONY EXTRA SG	50 SG		0.056 lb ai/a		1.8 oz/a		120DBP A			
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		120DBP A		57.4 a	57.7 a
	AMS	100 SG		2 lb/a		2 lb/a		120DBP A			
	ENVIVE	41.3 WG		0.103 lb ai/a		4.00 oz/a		PRE C			
	CLASSIC	25 WG		0.0078 lb ai/a		0.5 oz/a		POST D			
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		POST D			
	AMS	100 SG		2 lb/a		2 lb/a		POST D			
16	ALLY XP	60 WG		0.0025 lb ai/a		0.0667 oz/a		60DBP B		10.0 a	9.7 a
	HARMONY EXTRA SG	50 SG		0.056 lb ai/a		1.8 oz/a		60DBP B			
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		60DBP B		57.7 a	58.0 a
	AMS	100 SG		2 lb/a		2 lb/a		60DBP B			
	ENVIVE	41.3 WG		0.103 lb ai/a		4.00 oz/a		PRE C			
	CLASSIC	25 WG		0.0078 lb ai/a		0.5 oz/a		POST D			
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		POST D			
	AMS	100 SG		2 lb/a		2 lb/a		POST D			
17	NONTREATED									10.0 a	9.9 a
										57.7 a	57.8 a
LSD (P= .05)								0.45	0.39	0.83	0.82
Standard Deviation								0.27	0.23	0.50	0.49
CV								2.66	2.36	0.87	0.86
Replicate F								7.186	1.318	4.457	1.016
Replicate Prob(F)								0.0026	0.2818	0.0196	0.3733
Treatment F								1.192	0.927	0.931	0.696
Treatment Prob(F)								0.3254	0.5492	0.5454	0.7767

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Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit Stage	Appl Code				
1	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.00125 lb ai/a 0.028 lb ai/a 0.25 % v/v 2 lb/a	0.0333 oz/a 0.9 oz/a 0.25 % v/v 2 lb/a		120DBP A 120DBP A 120DBP A 120DBP A		50 a 42 a 0 a 90 a 99 a			
2	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.0025 lb ai/a 0.056 lb ai/a 0.25 % v/v 2 lb/a	0.0667 oz/a 1.8 oz/a 0.25 % v/v 2 lb/a		120DBP A 120DBP A 120DBP A 120DBP A		47 a 40 a			
3	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.00375 lb ai/a 0.084 lb ai/a 0.25 % v/v 2 lb/a	0.1 oz/a 2.7 oz/a 0.25 % v/v 2 lb/a		120DBP A 120DBP A 120DBP A 120DBP A		51 a 44 a			
4	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.00125 lb ai/a 0.028 lb ai/a 0.25 % v/v 2 lb/a	0.0333 oz/a 0.9 oz/a 0.25 % v/v 2 lb/a		60DBP B 60DBP B 60DBP B 60DBP B		49 a 42 a			
5	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.0025 lb ai/a 0.056 lb ai/a 0.25 % v/v 2 lb/a	0.0667 oz/a 1.8 oz/a 0.25 % v/v 2 lb/a		60DBP B 60DBP B 60DBP B 60DBP B		53 a 43 a			
6	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.00375 lb ai/a 0.084 lb ai/a 0.25 % v/v 2 lb/a	0.1 oz/a 2.7 oz/a 0.25 % v/v 2 lb/a		60DBP B 60DBP B 60DBP B 60DBP B		49 a 40 a			
7	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS ENVIVE	60 WG 50 SG 100 SL 100 SG 41.3 WG		0.00125 lb ai/a 0.028 lb ai/a 0.25 % v/v 2 lb/a 0.103 lb ai/a	0.0333 oz/a 0.9 oz/a 0.25 % v/v 2 lb/a 4.00 oz/a		120DBP A 120DBP A 120DBP A 120DBP A PRE C		49 a 37 a			
8	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS ENVIVE	60 WG 50 SG 100 SL 100 SG 41.3 WG		0.0025 lb ai/a 0.056 lb ai/a 0.25 % v/v 2 lb/a 0.103 lb ai/a	0.0667 oz/a 1.8 oz/a 0.25 % v/v 2 lb/a 4.00 oz/a		120DBP A 120DBP A 120DBP A 120DBP A PRE C		49 a 36 a			
9	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS ENVIVE	60 WG 50 SG 100 SL 100 SG 41.3 WG		0.00375 lb ai/a 0.084 lb ai/a 0.25 % v/v 2 lb/a 0.103 lb ai/a	0.1 oz/a 2.7 oz/a 0.25 % v/v 2 lb/a 4.00 oz/a		120DBP A 120DBP A 120DBP A 120DBP A PRE C		50 a 39 a			
10	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS ENVIVE	60 WG 50 SG 100 SL 100 SG 41.3 WG		0.00125 lb ai/a 0.028 lb ai/a 0.25 % v/v 2 lb/a 0.103 lb ai/a	0.0333 oz/a 0.9 oz/a 0.25 % v/v 2 lb/a 4.00 oz/a		60DBP B 60DBP B 60DBP B 60DBP B PRE C		51 a 41 a			
11	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS ENVIVE	60 WG 50 SG 100 SL 100 SG 41.3 WG		0.0025 lb ai/a 0.056 lb ai/a 0.25 % v/v 2 lb/a 0.103 lb ai/a	0.0667 oz/a 1.8 oz/a 0.25 % v/v 2 lb/a 4.00 oz/a		60DBP B 60DBP B 60DBP B 60DBP B PRE C		48 a 38 a			

Southern Illinois University

Potential for Soybean Injury from Metsulfuron Application in Wheat.

Trial ID: 13-23E-N140 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code Crop Code Crop Variety Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval									GLXMA AG3833 STS 10-28-13 Yield bu/A	GLXMA AG3832 10-28-13 Yield bu/A	STEME 3-14-13 Control Percent 14 DA-A	STEME 3-28-13 Control Percent 28 DA-A	STEME 4-25-13 Control Percent 56 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
12	ALLY XP	60 WG		0.00375 lb ai/a		0.1 oz/a		60DBP	B	51 a	36 a		
	HARMONY EXTRA SG	50 SG		0.084 lb ai/a		2.7 oz/a		60DBP	B				
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		60DBP	B				
	AMS	100 SG		2 lb/a		2 lb/a		60DBP	B				
	ENVIVE	41.3 WG		0.103 lb ai/a		4.00 oz/a		PRE	C				
13	ALLY XP	60 WG		0.0025 lb ai/a		0.0667 oz/a		120DBP	A	49 a	42 a		
	HARMONY EXTRA SG	50 SG		0.056 lb ai/a		1.8 oz/a		120DBP	A				
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		120DBP	A				
	AMS	100 SG		2 lb/a		2 lb/a		120DBP	A				
	CLASSIC	25 WG		0.0078 lb ai/a		0.5 oz/a		POST	D				
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		POST	D				
	AMS	100 SG		2 lb/a		2 lb/a		POST	D				
14	ALLY XP	60 WG		0.0025 lb ai/a		0.0667 oz/a		60DBP	B	49 a	41 a		
	HARMONY EXTRA SG	50 SG		0.056 lb ai/a		1.8 oz/a		60DBP	B				
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		60DBP	B				
	AMS	100 SG		2 lb/a		2 lb/a		60DBP	B				
	CLASSIC	25 WG		0.0078 lb ai/a		0.5 oz/a		POST	D				
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		POST	D				
	AMS	100 SG		2 lb/a		2 lb/a		POST	D				
15	ALLY XP	60 WG		0.0025 lb ai/a		0.0667 oz/a		120DBP	A	49 a	40 a		
	HARMONY EXTRA SG	50 SG		0.056 lb ai/a		1.8 oz/a		120DBP	A				
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		120DBP	A				
	AMS	100 SG		2 lb/a		2 lb/a		120DBP	A				
	ENVIVE	41.3 WG		0.103 lb ai/a		4.00 oz/a		PRE	C				
	CLASSIC	25 WG		0.0078 lb ai/a		0.5 oz/a		POST	D				
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		POST	D				
	AMS	100 SG		2 lb/a		2 lb/a		POST	D				
16	ALLY XP	60 WG		0.0025 lb ai/a		0.0667 oz/a		60DBP	B	57 a	39 a		
	HARMONY EXTRA SG	50 SG		0.056 lb ai/a		1.8 oz/a		60DBP	B				
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		60DBP	B				
	AMS	100 SG		2 lb/a		2 lb/a		60DBP	B				
	ENVIVE	41.3 WG		0.103 lb ai/a		4.00 oz/a		PRE	C				
	CLASSIC	25 WG		0.0078 lb ai/a		0.5 oz/a		POST	D				
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		POST	D				
	AMS	100 SG		2 lb/a		2 lb/a		POST	D				
17	NONTREATED									55 a	41 a	0	0
LSD (P= .05)									6.3	6.9	0.0	0.0	0.0
Standard Deviation									3.8	4.2	0.0	0.0	0.0
CV									7.58	10.39	0.0	0.0	0.0
Replicate F									2.288	5.881	0.000	0.000	0.000
Replicate Prob(F)									0.1178	0.0067	1.0000	1.0000	1.0000
Treatment F									1.407	0.865	0.000	0.000	0.000
Treatment Prob(F)									0.2001	0.6100	1.0000	1.0000	1.0000

Potential for Soybean Injury from Metsulfuron Application in Wheat.

Trial ID: 13-23E-N140 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code Crop Code Crop Variety Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval										LAMAM	LAMAM	LAMAM	GLXMA AG3833 STS 7-12-13 Injury Percent 14 DAP 14 DA-C	GLXMA AG3832 7-12-13 Injury Percent 14 DAP 14 DA-C
Trt	Treatment No. Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.00125 lb ai/a 0.028 lb ai/a 0.25 % v/v 2 lb/a		0.0333 oz/a 0.9 oz/a 0.25 % v/v 2 lb/a		120DBP A 120DBP A 120DBP A 120DBP A		0 a	90 a	99 a	0 a	0 a
2	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.0025 lb ai/a 0.056 lb ai/a 0.25 % v/v 2 lb/a		0.0667 oz/a 1.8 oz/a 0.25 % v/v 2 lb/a		120DBP A 120DBP A 120DBP A 120DBP A					0 a	0 a
3	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.00375 lb ai/a 0.084 lb ai/a 0.25 % v/v 2 lb/a		0.1 oz/a 2.7 oz/a 0.25 % v/v 2 lb/a		120DBP A 120DBP A 120DBP A 120DBP A					0 a	0 a
4	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.00125 lb ai/a 0.028 lb ai/a 0.25 % v/v 2 lb/a		0.0333 oz/a 0.9 oz/a 0.25 % v/v 2 lb/a		60DBP B 60DBP B 60DBP B 60DBP B					0 a	0 a
5	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.0025 lb ai/a 0.056 lb ai/a 0.25 % v/v 2 lb/a		0.0667 oz/a 1.8 oz/a 0.25 % v/v 2 lb/a		60DBP B 60DBP B 60DBP B 60DBP B					0 a	0 a
6	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.00375 lb ai/a 0.084 lb ai/a 0.25 % v/v 2 lb/a		0.1 oz/a 2.7 oz/a 0.25 % v/v 2 lb/a		60DBP B 60DBP B 60DBP B 60DBP B					0 a	0 a
7	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS ENVIVE	60 WG 50 SG 100 SL 100 SG 41.3 WG		0.00125 lb ai/a 0.028 lb ai/a 0.25 % v/v 2 lb/a 0.103 lb ai/a		0.0333 oz/a 0.9 oz/a 0.25 % v/v 2 lb/a 4.00 oz/a		120DBP A 120DBP A 120DBP A 120DBP A PRE C					0 a	0 a
8	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS ENVIVE	60 WG 50 SG 100 SL 100 SG 41.3 WG		0.0025 lb ai/a 0.056 lb ai/a 0.25 % v/v 2 lb/a 0.103 lb ai/a		0.0667 oz/a 1.8 oz/a 0.25 % v/v 2 lb/a 4.00 oz/a		120DBP A 120DBP A 120DBP A 120DBP A PRE C					0 a	0 a
9	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS ENVIVE	60 WG 50 SG 100 SL 100 SG 41.3 WG		0.00375 lb ai/a 0.084 lb ai/a 0.25 % v/v 2 lb/a 0.103 lb ai/a		0.1 oz/a 2.7 oz/a 0.25 % v/v 2 lb/a 4.00 oz/a		120DBP A 120DBP A 120DBP A 120DBP A PRE C					0 a	0 a
10	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS ENVIVE	60 WG 50 SG 100 SL 100 SG 41.3 WG		0.00125 lb ai/a 0.028 lb ai/a 0.25 % v/v 2 lb/a 0.103 lb ai/a		0.0333 oz/a 0.9 oz/a 0.25 % v/v 2 lb/a 4.00 oz/a		60DBP B 60DBP B 60DBP B 60DBP B PRE C					0 a	0 a
11	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS ENVIVE	60 WG 50 SG 100 SL 100 SG 41.3 WG		0.0025 lb ai/a 0.056 lb ai/a 0.25 % v/v 2 lb/a 0.103 lb ai/a		0.0667 oz/a 1.8 oz/a 0.25 % v/v 2 lb/a 4.00 oz/a		60DBP B 60DBP B 60DBP B 60DBP B PRE C					0 a	0 a

Southern Illinois University

Potential for Soybean Injury from Metsulfuron Application in Wheat.

Trial ID: 13-23E-N140 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code Crop Code Crop Variety Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								LAMAM	LAMAM	LAMAM	GLXMA AG3833 STS 7-12-13 Injury Percent 14 DAP 14 DA-C	GLXMA AG3832 7-12-13 Injury Percent 14 DAP 14 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
12	ALLY XP	60 WG		0.00375 lb ai/a		0.1 oz/a		60DBP	B			
	HARMONY EXTRA SG	50 SG		0.084 lb ai/a		2.7 oz/a		60DBP	B			
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		60DBP	B			
	AMS	100 SG		2 lb/a		2 lb/a		60DBP	B			
	ENVIVE	41.3 WG		0.103 lb ai/a		4.00 oz/a		PRE	C			
13	ALLY XP	60 WG		0.0025 lb ai/a		0.0667 oz/a		120DBP	A			
	HARMONY EXTRA SG	50 SG		0.056 lb ai/a		1.8 oz/a		120DBP	A			
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		120DBP	A			
	AMS	100 SG		2 lb/a		2 lb/a		120DBP	A			
	CLASSIC	25 WG		0.0078 lb ai/a		0.5 oz/a		POST	D			
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		POST	D			
	AMS	100 SG		2 lb/a		2 lb/a		POST	D			
14	ALLY XP	60 WG		0.0025 lb ai/a		0.0667 oz/a		60DBP	B			
	HARMONY EXTRA SG	50 SG		0.056 lb ai/a		1.8 oz/a		60DBP	B			
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		60DBP	B			
	AMS	100 SG		2 lb/a		2 lb/a		60DBP	B			
	CLASSIC	25 WG		0.0078 lb ai/a		0.5 oz/a		POST	D			
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		POST	D			
	AMS	100 SG		2 lb/a		2 lb/a		POST	D			
15	ALLY XP	60 WG		0.0025 lb ai/a		0.0667 oz/a		120DBP	A			
	HARMONY EXTRA SG	50 SG		0.056 lb ai/a		1.8 oz/a		120DBP	A			
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		120DBP	A			
	AMS	100 SG		2 lb/a		2 lb/a		120DBP	A			
	ENVIVE	41.3 WG		0.103 lb ai/a		4.00 oz/a		PRE	C			
	CLASSIC	25 WG		0.0078 lb ai/a		0.5 oz/a		POST	D			
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		POST	D			
	AMS	100 SG		2 lb/a		2 lb/a		POST	D			
16	ALLY XP	60 WG		0.0025 lb ai/a		0.0667 oz/a		60DBP	B			
	HARMONY EXTRA SG	50 SG		0.056 lb ai/a		1.8 oz/a		60DBP	B			
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		60DBP	B			
	AMS	100 SG		2 lb/a		2 lb/a		60DBP	B			
	ENVIVE	41.3 WG		0.103 lb ai/a		4.00 oz/a		PRE	C			
	CLASSIC	25 WG		0.0078 lb ai/a		0.5 oz/a		POST	D			
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v		0.25 % v/v		POST	D			
	AMS	100 SG		2 lb/a		2 lb/a		POST	D			
17	NONTREATED									0	0	0
LSD (P= .05)										0.0	0.0	0.0
Standard Deviation										0.0	0.0	0.0
CV										0.0	0.0	0.0
Replicate F										0.000	0.000	0.000
Replicate Prob(F)										1.0000	1.0000	1.0000
Treatment F										0.000	0.000	0.000
Treatment Prob(F)										1.0000	1.0000	1.0000

Southern Illinois University

Potential for Soybean Injury from Metsulfuron Application in Wheat.

Trial ID: 13-23E-N140 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code Crop Code Crop Variety Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								GLXMA AG3833 STS 7-26-13 Injury Percent 28 DAP 0 DA-D	GLXMA AG3832 7-26-13 Injury Percent 28 DAP 0 DA-D	GLXMA AG3833 STS 8-2-13 Injury Percent 35 DA-C 7 DA-D	GLXMA AG3832 8-2-13 Injury Percent 35 DA-C 7 DA-D
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit Stage	Appl Code			
1	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.00125 lb ai/a 0.028 lb ai/a 0.25 % v/v 2 lb/a	0.0333 oz/a 0.9 oz/a 0.25 % v/v 2 lb/a		120DBP A 120DBP A 120DBP A 120DBP A		0 a	1 fg	0 a 1 f
2	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.0025 lb ai/a 0.056 lb ai/a 0.25 % v/v 2 lb/a	0.0667 oz/a 1.8 oz/a 0.25 % v/v 2 lb/a		120DBP A 120DBP A 120DBP A 120DBP A		0 a	2 efg	0 a 3 ef
3	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.00375 lb ai/a 0.084 lb ai/a 0.25 % v/v 2 lb/a	0.1 oz/a 2.7 oz/a 0.25 % v/v 2 lb/a		120DBP A 120DBP A 120DBP A 120DBP A		0 a	3 d-g	0 a 3 f
4	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.00125 lb ai/a 0.028 lb ai/a 0.25 % v/v 2 lb/a	0.0333 oz/a 0.9 oz/a 0.25 % v/v 2 lb/a		60DBP B 60DBP B 60DBP B 60DBP B		0 a	7 cde	0 a 7 c-f
5	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.0025 lb ai/a 0.056 lb ai/a 0.25 % v/v 2 lb/a	0.0667 oz/a 1.8 oz/a 0.25 % v/v 2 lb/a		60DBP B 60DBP B 60DBP B 60DBP B		0 a	3 d-g	0 a 4 ef
6	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.00375 lb ai/a 0.084 lb ai/a 0.25 % v/v 2 lb/a	0.1 oz/a 2.7 oz/a 0.25 % v/v 2 lb/a		60DBP B 60DBP B 60DBP B 60DBP B		0 a	7 bcd	0 a 6 def
7	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS ENVIVE	60 WG 50 SG 100 SL 100 SG 41.3 WG		0.00125 lb ai/a 0.028 lb ai/a 0.25 % v/v 2 lb/a 0.103 lb ai/a	0.0333 oz/a 0.9 oz/a 0.25 % v/v 2 lb/a 4.00 oz/a		120DBP A 120DBP A 120DBP A 120DBP A PRE C		0 a	8 bcd	0 a 10 b-e
8	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS ENVIVE	60 WG 50 SG 100 SL 100 SG 41.3 WG		0.0025 lb ai/a 0.056 lb ai/a 0.25 % v/v 2 lb/a 0.103 lb ai/a	0.0667 oz/a 1.8 oz/a 0.25 % v/v 2 lb/a 4.00 oz/a		120DBP A 120DBP A 120DBP A 120DBP A PRE C		0 a	6 def	0 a 7 c-f
9	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS ENVIVE	60 WG 50 SG 100 SL 100 SG 41.3 WG		0.00375 lb ai/a 0.084 lb ai/a 0.25 % v/v 2 lb/a 0.103 lb ai/a	0.1 oz/a 2.7 oz/a 0.25 % v/v 2 lb/a 4.00 oz/a		120DBP A 120DBP A 120DBP A 120DBP A PRE C		0 a	13 a	0 a 13 bc
10	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS ENVIVE	60 WG 50 SG 100 SL 100 SG 41.3 WG		0.00125 lb ai/a 0.028 lb ai/a 0.25 % v/v 2 lb/a 0.103 lb ai/a	0.0333 oz/a 0.9 oz/a 0.25 % v/v 2 lb/a 4.00 oz/a		60DBP B 60DBP B 60DBP B 60DBP B PRE C		0 a	12 abc	0 a 11 bcd
11	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS ENVIVE	60 WG 50 SG 100 SL 100 SG 41.3 WG		0.0025 lb ai/a 0.056 lb ai/a 0.25 % v/v 2 lb/a 0.103 lb ai/a	0.0667 oz/a 1.8 oz/a 0.25 % v/v 2 lb/a 4.00 oz/a		60DBP B 60DBP B 60DBP B 60DBP B PRE C		0 a	13 a	0 a 13 bcd

Southern Illinois University

Potential for Soybean Injury from Metsulfuron Application in Wheat.

Trial ID: 13-23E-N140 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code Crop Code Crop Variety Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								GLXMA AG3833 STS 7-26-13 Injury Percent 28 DAP 0 DA-D	GLXMA AG3832 7-26-13 Injury Percent 28 DAP 0 DA-D	GLXMA AG3833 STS 8-2-13 Injury Percent 35 DA-C 7 DA-D	GLXMA AG3832 8-2-13 Injury Percent 35 DA-C 7 DA-D
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit Stage	Appl Code			
12	ALLY XP	60 WG		0.00375 lb ai/a	0.1 oz/a		60DBP B		0 a	15 a	0 a
	HARMONY EXTRA SG	50 SG		0.084 lb ai/a	2.7 oz/a		60DBP B				15 b
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v	0.25 % v/v		60DBP B				
	AMS	100 SG		2 lb/a	2 lb/a		60DBP B				
	ENVIVE	41.3 WG		0.103 lb ai/a	4.00 oz/a		PRE C				
13	ALLY XP	60 WG		0.0025 lb ai/a	0.0667 oz/a		120DBP A		0 a	2 efg	0 a
	HARMONY EXTRA SG	50 SG		0.056 lb ai/a	1.8 oz/a		120DBP A				16 b
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v	0.25 % v/v		120DBP A				
	AMS	100 SG		2 lb/a	2 lb/a		120DBP A				
	CLASSIC	25 WG		0.0078 lb ai/a	0.5 oz/a		POST D				
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v	0.25 % v/v		POST D				
	AMS	100 SG		2 lb/a	2 lb/a		POST D				
14	ALLY XP	60 WG		0.0025 lb ai/a	0.0667 oz/a		60DBP B		0 a	1 fg	0 a
	HARMONY EXTRA SG	50 SG		0.056 lb ai/a	1.8 oz/a		60DBP B				11 bcd
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v	0.25 % v/v		60DBP B				
	AMS	100 SG		2 lb/a	2 lb/a		60DBP B				
	CLASSIC	25 WG		0.0078 lb ai/a	0.5 oz/a		POST D				
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v	0.25 % v/v		POST D				
	AMS	100 SG		2 lb/a	2 lb/a		POST D				
15	ALLY XP	60 WG		0.0025 lb ai/a	0.0667 oz/a		120DBP A		0 a	12 ab	0 a
	HARMONY EXTRA SG	50 SG		0.056 lb ai/a	1.8 oz/a		120DBP A				30 a
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v	0.25 % v/v		120DBP A				
	AMS	100 SG		2 lb/a	2 lb/a		120DBP A				
	ENVIVE	41.3 WG		0.103 lb ai/a	4.00 oz/a		PRE C				
	CLASSIC	25 WG		0.0078 lb ai/a	0.5 oz/a		POST D				
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v	0.25 % v/v		POST D				
	AMS	100 SG		2 lb/a	2 lb/a		POST D				
16	ALLY XP	60 WG		0.0025 lb ai/a	0.0667 oz/a		60DBP B		0 a	17 a	1 a
	HARMONY EXTRA SG	50 SG		0.056 lb ai/a	1.8 oz/a		60DBP B				36 a
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v	0.25 % v/v		60DBP B				
	AMS	100 SG		2 lb/a	2 lb/a		60DBP B				
	ENVIVE	41.3 WG		0.103 lb ai/a	4.00 oz/a		PRE C				
	CLASSIC	25 WG		0.0078 lb ai/a	0.5 oz/a		POST D				
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v	0.25 % v/v		POST D				
	AMS	100 SG		2 lb/a	2 lb/a		POST D				
17	NONTREATED								0 a	0 g	0 a
											0 f
LSD (P= .05)								0.0	5.1	0.7	7.0
Standard Deviation								0.0	3.0	0.4	4.2
CV								0.0	42.18	714.14	38.43
Replicate F								0.000	1.113	1.000	2.258
Replicate Prob(F)								1.0000	0.3409	0.3791	0.1209
Treatment F								0.000	10.004	1.000	15.717
Treatment Prob(F)								1.0000	0.0001	0.4807	0.0001

Southern Illinois University

Potential for Soybean Injury from Metsulfuron Application in Wheat.

Trial ID: 13-23E-N140 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code Crop Code Crop Variety Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								GLXMA AG3833 STS 8-9-13 Injury Percent 42 DA-C 14 DA-D	GLXMA AG3832 8-9-13 Injury Percent 42 DA-C 14 DA-D	GLXMA AG3833 STS 8-23-13 Injury Percent 56 DA-C 28 DA-D	GLXMA AG3832 8-23-13 Injury Percent 56 DA-C 28 DA-D
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit Stage	Appl Code			
1	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.00125 lb ai/a 0.028 lb ai/a 0.25 % v/v 2 lb/a	0.0333 oz/a 0.9 oz/a 0.25 % v/v 2 lb/a		120DBP A 120DBP A 120DBP A 120DBP A		0 a	1 g	0 a 0 c
2	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.0025 lb ai/a 0.056 lb ai/a 0.25 % v/v 2 lb/a	0.0667 oz/a 1.8 oz/a 0.25 % v/v 2 lb/a		120DBP A 120DBP A 120DBP A 120DBP A		0 a	2 g	0 a 2 abc
3	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.00375 lb ai/a 0.084 lb ai/a 0.25 % v/v 2 lb/a	0.1 oz/a 2.7 oz/a 0.25 % v/v 2 lb/a		120DBP A 120DBP A 120DBP A 120DBP A		0 a	2 g	0 a 2 abc
4	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.00125 lb ai/a 0.028 lb ai/a 0.25 % v/v 2 lb/a	0.0333 oz/a 0.9 oz/a 0.25 % v/v 2 lb/a		60DBP B 60DBP B 60DBP B 60DBP B		0 a	3 fg	0 a 1 bc
5	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.0025 lb ai/a 0.056 lb ai/a 0.25 % v/v 2 lb/a	0.0667 oz/a 1.8 oz/a 0.25 % v/v 2 lb/a		60DBP B 60DBP B 60DBP B 60DBP B		0 a	1 g	0 a 0 c
6	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	60 WG 50 SG 100 SL 100 SG		0.00375 lb ai/a 0.084 lb ai/a 0.25 % v/v 2 lb/a	0.1 oz/a 2.7 oz/a 0.25 % v/v 2 lb/a		60DBP B 60DBP B 60DBP B 60DBP B		0 a	4 efg	0 a 2 abc
7	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS ENVIVE	60 WG 50 SG 100 SL 100 SG 41.3 WG		0.00125 lb ai/a 0.028 lb ai/a 0.25 % v/v 2 lb/a 0.103 lb ai/a	0.0333 oz/a 0.9 oz/a 0.25 % v/v 2 lb/a 4.00 oz/a		120DBP A 120DBP A 120DBP A 120DBP A PRE C		0 a	9 cde	0 a 3 ab
8	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS ENVIVE	60 WG 50 SG 100 SL 100 SG 41.3 WG		0.0025 lb ai/a 0.056 lb ai/a 0.25 % v/v 2 lb/a 0.103 lb ai/a	0.0667 oz/a 1.8 oz/a 0.25 % v/v 2 lb/a 4.00 oz/a		120DBP A 120DBP A 120DBP A 120DBP A PRE C		0 a	5 d-g	0 a 2 abc
9	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS ENVIVE	60 WG 50 SG 100 SL 100 SG 41.3 WG		0.00375 lb ai/a 0.084 lb ai/a 0.25 % v/v 2 lb/a 0.103 lb ai/a	0.1 oz/a 2.7 oz/a 0.25 % v/v 2 lb/a 4.00 oz/a		120DBP A 120DBP A 120DBP A 120DBP A PRE C		0 a	11 c	0 a 4 a
10	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS ENVIVE	60 WG 50 SG 100 SL 100 SG 41.3 WG		0.00125 lb ai/a 0.028 lb ai/a 0.25 % v/v 2 lb/a 0.103 lb ai/a	0.0333 oz/a 0.9 oz/a 0.25 % v/v 2 lb/a 4.00 oz/a		60DBP B 60DBP B 60DBP B 60DBP B PRE C		0 a	10 cde	0 a 1 bc
11	ALLY XP HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS ENVIVE	60 WG 50 SG 100 SL 100 SG 41.3 WG		0.0025 lb ai/a 0.056 lb ai/a 0.25 % v/v 2 lb/a 0.103 lb ai/a	0.0667 oz/a 1.8 oz/a 0.25 % v/v 2 lb/a 4.00 oz/a		60DBP B 60DBP B 60DBP B 60DBP B PRE C		0 a	11 cd	0 a 4 a

Southern Illinois University

Potential for Soybean Injury from Metsulfuron Application in Wheat.

Trial ID: 13-23E-N140 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code Crop Code Crop Variety Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								GLXMA AG3833 STS 8-9-13 Injury Percent 42 DA-C 14 DA-D	GLXMA AG3832 8-9-13 Injury Percent 42 DA-C 14 DA-D	GLXMA AG3833 STS 8-23-13 Injury Percent 56 DA-C 28 DA-D	GLXMA AG3832 8-23-13 Injury Percent 56 DA-C 28 DA-D
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit Stage	Appl Code			
12	ALLY XP	60 WG		0.00375 lb ai/a	0.1 oz/a		60DBP B		0 a	12 c	0 a
	HARMONY EXTRA SG	50 SG		0.084 lb ai/a	2.7 oz/a		60DBP B				2 abc
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v	0.25 % v/v		60DBP B				
	AMS	100 SG		2 lb/a	2 lb/a		60DBP B				
	ENVIVE	41.3 WG		0.103 lb ai/a	4.00 oz/a		PRE C				
13	ALLY XP	60 WG		0.0025 lb ai/a	0.0667 oz/a		120DBP A		0 a	12 c	0 a
	HARMONY EXTRA SG	50 SG		0.056 lb ai/a	1.8 oz/a		120DBP A				2 abc
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v	0.25 % v/v		120DBP A				
	AMS	100 SG		2 lb/a	2 lb/a		120DBP A				
	CLASSIC	25 WG		0.0078 lb ai/a	0.5 oz/a		POST D				
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v	0.25 % v/v		POST D				
	AMS	100 SG		2 lb/a	2 lb/a		POST D				
14	ALLY XP	60 WG		0.0025 lb ai/a	0.0667 oz/a		60DBP B		0 a	8 c-f	0 a
	HARMONY EXTRA SG	50 SG		0.056 lb ai/a	1.8 oz/a		60DBP B				3 ab
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v	0.25 % v/v		60DBP B				
	AMS	100 SG		2 lb/a	2 lb/a		60DBP B				
	CLASSIC	25 WG		0.0078 lb ai/a	0.5 oz/a		POST D				
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v	0.25 % v/v		POST D				
	AMS	100 SG		2 lb/a	2 lb/a		POST D				
15	ALLY XP	60 WG		0.0025 lb ai/a	0.0667 oz/a		120DBP A		0 a	19 b	0 a
	HARMONY EXTRA SG	50 SG		0.056 lb ai/a	1.8 oz/a		120DBP A				3 a
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v	0.25 % v/v		120DBP A				
	AMS	100 SG		2 lb/a	2 lb/a		120DBP A				
	ENVIVE	41.3 WG		0.103 lb ai/a	4.00 oz/a		PRE C				
	CLASSIC	25 WG		0.0078 lb ai/a	0.5 oz/a		POST D				
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v	0.25 % v/v		POST D				
	AMS	100 SG		2 lb/a	2 lb/a		POST D				
16	ALLY XP	60 WG		0.0025 lb ai/a	0.0667 oz/a		60DBP B		0 a	27 a	0 a
	HARMONY EXTRA SG	50 SG		0.056 lb ai/a	1.8 oz/a		60DBP B				4 a
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v	0.25 % v/v		60DBP B				
	AMS	100 SG		2 lb/a	2 lb/a		60DBP B				
	ENVIVE	41.3 WG		0.103 lb ai/a	4.00 oz/a		PRE C				
	CLASSIC	25 WG		0.0078 lb ai/a	0.5 oz/a		POST D				
	NIS (ACTIVATOR 90)	100 SL		0.25 % v/v	0.25 % v/v		POST D				
	AMS	100 SG		2 lb/a	2 lb/a		POST D				
17	NONTREATED								0 a	0 g	0 a
LSD (P= .05)								0.0	6.0	0.0	2.2
Standard Deviation								0.0	3.6	0.0	1.3
CV								0.0	44.39	0.0	66.21
Replicate F								0.000	3.122	0.000	0.867
Replicate Prob(F)								1.0000	0.0578	1.0000	0.4300
Treatment F								0.000	11.799	0.000	2.871
Treatment Prob(F)								1.0000	0.0001	1.0000	0.0054

Potential for Soybean Injury from Metsulfuron Application in Wheat.

Trial ID: 13-23E-N140 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Trial Comments

1. Protocol: DuPont (USA-13-227).
2. Ratings: WC trt 1 only, 0, 14, 28, and 56 DA-A.
CI 14, 28, and 56 DAP and 7, 14 and 28 DA Classic application (soybean).
Rate each soybean variety separately.
3. Following wheat harvest plant soybean.
Rows 1 and 2 plant AG 3833 STS.
Rows 3 and 4 plant AG 3832 non-STS.
4. Apply glyphosate POST on soybeans across entire plot as needed.
5. Soybean yield for each soybean variety.
6. Soybean injury was stunting.
7. Non-STS soybeans were shorter, had less pods overall and looked as if they would yield less.
Harvested 10-28-13, (2) 30 inch rows by 27 ft per soybean variety.