

Tank Contamination and Symptomology - Demonstration.

Trial ID: 14-26B Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Trial Status: One-year/final Initiation Date: 7-11-14 Completion Date: 9-1-14	
Trial Location City: Belleville Country: USA State/Prov.: Illinois IL Postal Code: 62221	

Objectives: Demonstrate level of injury from improperly cleaned equipment and length of time since application.

Study Director: Ronald F. Krausz Organization: Belleville Research Center - Southern Illinois Univ Carbondale Address: 2036 Charles Lane City+State/Prov: Belleville, IL Postal Code: 62221 Country: USA	Contacts Title: Researcher/Farm Manager Phone No.: 618-566-4761 E-mail: rkrausz@siu.edu
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Crop Description	
Crop 1: GLXMA Glycine max Variety: AG3832 Description: RR2Y Planting Rate, Unit: 140000 S/A Depth, Unit: 1 IN Row Spacing, Unit: 30 IN	Soybean BBCH Scale: BSOY Planting Date: 7-11-14 Planting Method: SEEDED

Pest Description
Pest 1 Type: W Code: NA Common Name: crop tolerance only

Site and Design	
Treated Plot Width: 10 FT Total Plot Width: 20 FT Treated Plot Length: 50 FT Total Plot Length: 50 FT Replications: 1 Untreated Arrangement: INCLUDED single control randomized in each block	Site Type: FIELD Experimental Unit: 1 PLOT Tillage Type: REDTIL reduced-till Study Design: RACOB L Randomized Complete Block (RCB)

No.	Previous Crop	Year
1.	GLXMA	2013

Maintenance	
No.	Maintenance Product Name
1.	N 0 LB/A, P2O5 50 LB/A, K2O 150 LB/A

Soil Description	
% OM: 2.7 Texture: SIL silt loam pH: 6.8 Soil Name: Pierron CEC: 7	

Additional Measured Elements		
Element	Quantity	Unit
P1	59	lb/A
K	282	lb/A

Moisture and Weather Conditions	
Overall Moisture Conditions: NORMAL 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.	6-1-14	0.13	IN	RAIN	rain	1	DAY			
2.	6-3-14					7	DAY	59	90	F
3.	6-4-14	0.67	IN	RAIN	rain	1	DAY			
4.	6-7-14	0.6	IN	RAIN	rain	1	DAY			
5.	6-9-14	1.38	IN	RAIN	rain	2	DAY			
6.	6-10-14					7	DAY	51	90	F
7.	6-12-14	0.07	IN	RAIN	rain	1	DAY			
8.	6-15-14	0.02	IN	RAIN	rain	1	DAY			
9.	6-17-14					7	DAY	67	92	F
10.	6-20-14	2.09	IN	RAIN	rain	5	DAY			
11.	6-24-14					7	DAY	65	91	F
12.	6-27-14	0.11	IN	RAIN	rain	2	DAY			
13.	7-1-14	0.01	IN	RAIN	rain	1	DAY			
14.	7-1-14					7	DAY	55	90	F
15.	7-7-14	0.79	IN	RAIN	rain	2	DAY			
16.	7-8-14					7	DAY	59	89	F
17.	7-12-14	0.49	IN	RAIN	rain	3	DAY			
18.	7-15-14					7	DAY	54	85	F
19.	7-22-14					7	DAY	57	98	F
20.	7-25-14	0.02	IN	RAIN	rain	1	DAY			
21.	7-29-14					7	DAY	52	89	F
22.	8-1-14	0.04	IN	RAIN	rain	1	DAY			
23.	8-5-14	4.04	IN	RAIN	rain	4	DAY			
24.	8-5-14					7	DAY	66	88	F
25.	8-12-14					7	DAY	57	84	F
26.	8-15-14	1.21	IN	RAIN	rain	3	DAY			
27.	8-19-14					7	DAY	67	95	F
28.	8-20-14	0.11	IN	RAIN	rain	1	DAY			
29.	8-27-14	1.56	IN	RAIN	rain	2	DAY			
30.	9-1-14	1.69	IN	RAIN	rain	1	DAY			

Application Description

	A	B	C
Application Date:	8-6-14	8-13-14	8-18-14
Appl. Start Time:	18:00	9:00	9:00
Appl. Stop Time:	18:15	9:30	9:30
Application Method:	Spray	Spray	Spray
Application Timing:	14DBT	7DBT	2DBT
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	RJW	RFK	RFK
Air Temperature, Unit:	83 F	74 F	73 F
% Relative Humidity:	61	66	100
Wind Velocity, Unit:	3 MPH	0 MPH	0 MPH
Wind Direction:	N		N
Dew Presence (Y/N):	N	N	Y
Soil Temperature, Unit:	76 F	74 F	76 F
Soil Moisture:	NORMAL	ABONOR	ABONOR
% Cloud Cover:	25	0	100
Next Moisture Occurred On:	8-6-14	8-16-14	8-20-14
Time to Next Moisture, Unit:	4 HR	3 DAY	2 DAY

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA	GLXMA	GLXMA
Stage Scale Used:	DESC	DESC	DESC
Stage Majority, Percent:	V3	V5	R1
Stage Minimum, Percent:	V2	V5	R1
Stage Maximum, Percent:	V3	V5	R1
Height, Unit:	6 IN	8 IN	12 IN
Height Minimum, Maximum:	5 6	8 8	10 12

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	NA W	NA W	NA W
Stage Majority, Percent:	NA	NA	NA

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Application Equipment			
	A	B	C
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer
Equipment Type:	BACSPR	BACSPR	BACSPR
Operation Pressure, Unit:	30 PSI	30 PSI	30 PSI
Nozzle Type:	TTI	TTI	TTI
Nozzle Size:	11002	11002	11002
Boom Length, Unit:	10 FT	10 FT	10 FT
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	GLXMA 8-21-14 Injury	GLXMA 8-21-14 Stunt	GLXMA 8-21-14 Chlorosis	GLXMA 8-21-14 Necrosis	GLXMA 8-21-14 Cupping	GLXMA 8-21-14 Epinasty
							Peren 3 DA-C	Percent 3 DA-C	Percent 3 DA-C	Peren 3 DA-C	Peren 3 DA-C	Peren 3 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Unit	Growth Unit	Appl Stage	Code		
1	NONTREATED										0	0
2	ENGENIA NIS (ACTIVATOR 90)	5 SL 100 SL		0.0128 fl oz/a 0.25 % v/v		0.56 g ai/ha 0.25 % v/v		14DBT A 14DBT A			15	15
3	ENGENIA NIS (ACTIVATOR 90)	5 SL 100 SL		0.0128 fl oz/a 0.25 % v/v		0.56 g ai/ha 0.25 % v/v		7DBT B 7DBT B			10	0
4	ENGENIA NIS (ACTIVATOR 90)	5 SL 100 SL		0.0128 fl oz/a 0.25 % v/v		0.56 g ai/ha 0.25 % v/v		2DBT C 2DBT C			2	0
5	ENGENIA NIS (ACTIVATOR 90)	5 SL 100 SL		0.128 fl oz/a 0.25 % v/v		5.6 g ai/ha 0.25 % v/v		14DBT A 14DBT A			35	35
6	ENGENIA NIS (ACTIVATOR 90)	5 SL 100 SL		0.128 fl oz/a 0.25 % v/v		5.6 g ai/ha 0.25 % v/v		7DBT B 7DBT B			25	25
7	ENGENIA NIS (ACTIVATOR 90)	5 SL 100 SL		0.128 fl oz/a 0.25 % v/v		5.6 g ai/ha 0.25 % v/v		2DBT C 2DBT C			10	10
LSD (P=.05)												
Standard Deviation												
CV												

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.

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval										GLXMA 8-25-14 Injury	GLXMA 8-25-14 Stunt	GLXMA 8-25-14 Chlorosis	GLXMA 8-25-14 Necrosis	GLXMA 8-25-14 Cupping	GLXMA 8-25-14 Epinasty	
										Percent	Percent	Percent	Percent	Percent	Percent	
										7 DA-C	7 DA-C	7 DA-C	7 DA-C	7 DA-C	7 DA-C	
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate	Other Rate	Growth Unit Stage	Appl Code						
1	NONTREATED										0	0	0	0	0	
2	ENGENIA NIS (ACTIVATOR 90)	5 SL 100 SL		0.0128 fl oz/a 0.25 % v/v	0.56 g ai/ha 0.25 % v/v				14DBT A 14DBT A		10	0	0	0	10	
3	ENGENIA NIS (ACTIVATOR 90)	5 SL 100 SL		0.0128 fl oz/a 0.25 % v/v	0.56 g ai/ha 0.25 % v/v				7DBT B 7DBT B		5	0	0	0	5	
4	ENGENIA NIS (ACTIVATOR 90)	5 SL 100 SL		0.0128 fl oz/a 0.25 % v/v	0.56 g ai/ha 0.25 % v/v				2DBT C 2DBT C		5	0	0	0	5	
5	ENGENIA NIS (ACTIVATOR 90)	5 SL 100 SL		0.128 fl oz/a 0.25 % v/v	5.6 g ai/ha 0.25 % v/v				14DBT A 14DBT A		50	50	0	0	25	
6	ENGENIA NIS (ACTIVATOR 90)	5 SL 100 SL		0.128 fl oz/a 0.25 % v/v	5.6 g ai/ha 0.25 % v/v				7DBT B 7DBT B		35	35	0	0	25	
7	ENGENIA NIS (ACTIVATOR 90)	5 SL 100 SL		0.128 fl oz/a 0.25 % v/v	5.6 g ai/ha 0.25 % v/v				2DBT C 2DBT C		25	25	0	0	10	
LSD (P=.05)													.	.	.	.
Standard Deviation													.	.	.	.
CV													.	.	.	.

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								GLXMA 9-1-14 Injury Percent 14 DA-C	GLXMA 9-1-14 Stunt Percent 14 DA-C	GLXMA 9-1-14 Chlorosis Percent 14 DA-C	GLXMA 9-1-14 Necrosis Percent 14 DA-C	GLXMA 9-1-14 Cupping Percent 14 DA-C	GLXMA 9-1-14 Epinasty Percent 14 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit Stage	Appl Code					
1	NONTREATED								0	0	0	0	0
2	ENGENIA NIS (ACTIVATOR 90)	5 SL 100 SL		0.0128 fl oz/a 0.25 % v/v	0.56 g ai/ha 0.25 % v/v		14DBT A 14DBT A		0	0	0	5	0
3	ENGENIA NIS (ACTIVATOR 90)	5 SL 100 SL		0.0128 fl oz/a 0.25 % v/v	0.56 g ai/ha 0.25 % v/v		7DBT B 7DBT B		10	0	0	10	0
4	ENGENIA NIS (ACTIVATOR 90)	5 SL 100 SL		0.0128 fl oz/a 0.25 % v/v	0.56 g ai/ha 0.25 % v/v		2DBT C 2DBT C		15	5	0	15	0
5	ENGENIA NIS (ACTIVATOR 90)	5 SL 100 SL		0.128 fl oz/a 0.25 % v/v	5.6 g ai/ha 0.25 % v/v		14DBT A 14DBT A		25	25	0	15	0
6	ENGENIA NIS (ACTIVATOR 90)	5 SL 100 SL		0.128 fl oz/a 0.25 % v/v	5.6 g ai/ha 0.25 % v/v		7DBT B 7DBT B		75	75	0	25	0
7	ENGENIA NIS (ACTIVATOR 90)	5 SL 100 SL		0.128 fl oz/a 0.25 % v/v	5.6 g ai/ha 0.25 % v/v		2DBT C 2DBT C		35	35	0	10	0
LSD (P=.05)													
Standard Deviation													
CV													

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Trial Comments

1. Protocol: BASF (MKD-H-2014-US-DOJ-A-01).
2. CI 3, 7, and 14 DA-C. No WC ratings, weedfree.
3. Yield not requested, destroy grain from treated plots.
4. Blanket PRE application of Authority First (6.4 oz/A) plus Dual Magnum (1.33 pt/A) to all plots was applied on 7-11-14.
Blanket POST application of Roundup Powermax as needed, to all plots, keep weedfree, was not applied, not needed.
5. Photos.
6. Not harvested.