

Dicamba Tolerant Soybean Response to Auxins.

Trial ID: 14-26C-W-N80 Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Trial Status: One-year/final Initiation Date: 7-11-14 Completion Date: 8-22-14		Trial Location
City: Belleville	Country: USA	
State/Prov.: Illinois IL		
Postal Code: 62221		

Objectives: Demonstrate the lack of cross tolerance to other auxin mimic herbicides.
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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: Dicamba-Tolerant Description: DT	Soybean BBCH Scale: BSOY Planting Rate, Unit: 140000 S/A Depth, Unit: 1 IN Row Spacing, Unit: 30 IN
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 Treated Plot Length: 50 FT	Total Plot Width: 20 FT Total Plot Length: 50 FT Site Type: FIELD Experimental Unit: 1 PLOT Tillage Type: REDTIL reduced-till Study Design: RACOB L Randomized Complete Block (RCB)						
Replications: 1 Untreated Arrangement: INCLUDED single control randomized in each block							
<table border="1" style="width: 100%;"> <thead> <tr> <th>No.</th> <th>Previous Crop</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>GLXMA</td> <td>2013</td> </tr> </tbody> </table>		No.	Previous Crop	Year	1.	GLXMA	2013
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Maintenance					
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Soil Description										
% OM: 2.6 Texture: SIL silt loam pH: 6.4 Soil Name: Winfield CEC: 7										
Additional Measured Elements										
<table border="1" style="width: 100%;"> <thead> <tr> <th>Element</th> <th>Quantity</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>P1</td> <td>70</td> <td>lb/A</td> </tr> <tr> <td>K</td> <td>346</td> <td>lb/A</td> </tr> </tbody> </table>		Element	Quantity	Unit	P1	70	lb/A	K	346	lb/A
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P1	70	lb/A								
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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
Application Date:	8-8-14
Appl. Start Time:	10:00
Appl. Stop Time:	10:20
Application Method:	Spray
Application Timing:	V3-V4
Application Placement:	BROFOL
Applied By:	LXF
Air Temperature, Unit:	74 F
% Relative Humidity:	100
Wind Velocity, Unit:	2 MPH
Wind Direction:	W
Dew Presence (Y/N):	N
Soil Temperature, Unit:	75 F
Soil Moisture:	ABONOR
% Cloud Cover:	100
Next Moisture Occurred On:	8-16-14
Time to Next Moisture, Unit:	8 DAY

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	GLXMA
Stage Scale Used:	DESC
Stage Majority, Percent:	V4
Stage Minimum, Percent:	V3
Stage Maximum, Percent:	V4
Height, Unit:	12 IN
Height Minimum, Maximum:	10 12

Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	NA W

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

Pest Code	Crop Code	Rating Date	Rating Type		GLXMA 8-22-14 Stunt	GLXMA 8-22-14 Chlorosis	GLXMA 8-22-14 Epinasty	GLXMA 8-22-14 Necrosis	GLXMA 8-22-14 Injury
Rating Unit	Rating Timing	Trt-Eval Interval			Percent 14 DA-A	Percent 14 DA-A	Percent 14 DA-A	Percen 14 DA-A	Percent 14 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate	Growth Unit Stage	Appl Code	
1	NONTREATED								
2	ENGENIA NIS (ACTIVATOR 90)	5 SL 100 SL		0.5 lb ae/a 0.25 % v/v	12.8 fl oz/a 0.25 % v/v		V3-V4 A V3-V4 A		
3	WEEDAR 64 NIS (ACTIVATOR 90)	3.8 SL 100 SL		0.95 lb ae/a 0.25 % v/v	32 fl oz/a 0.25 % v/v		V3-V4 A V3-V4 A		
4	STATUS NIS (ACTIVATOR 90)	56 WG 100 SL		0.175 lb ae/a 0.25 % v/v	5 oz/a 0.25 % v/v		V3-V4 A V3-V4 A		
LSD (P=.05)									
Standard Deviation									
CV									

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Trial Comments

1. Protocol: BASF (MKD-H-2014-US-D0K-R-01).
2. Ratings: CI 7 and 14 DA-A.
3. Crop destruct (no pods).
4. Must maintain weed-free.
5. Blanket PRE application of Authority First (6.4 oz/A) was applied on 7-11-14.
Blanket POST application of Roundup Powermax (32 floz/A), if needed, was applied 7-30-14.
6. Photos.
7. Not harvested.