

Resolve Preplant Interval to non-STS Soybeans.

Trial ID: 10-26B

Location: Belleville Res. Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu
 City State Zip Country: Belleville IL 62221 USA
 Trial Status: FINAL Initiation Date: 03-16-10

Objectives: Evaluate crop response effects on non-STS soybeans to
 early preplant applications of Resolve.

Crop 1: GLXMA Soybean Variety: AG 4005 Description: RR
 Planting Method: SEEDS Planting Date: 05-25-10
 Rate, Unit: 75 LB/A Depth, Unit: 1.0 IN
 Row Spacing, Unit: 30 IN

Plot Width, Unit: 10 FT Site Type: FIELD
 Plot Length, Unit: 33 FT Tillage Type: NO-TILL
 Replications: 4 Study Design: Randomized Complete Block

Prior Crops, Year
 1. GLXMA 2009

Field Prep./Maintenance: N 0 LB/A, P2O5 0 LB/A, K2O 150 LB/A

% OM: 1.7 Texture: SILT LOAM
 pH: 7 Soil Name: PIERRON
 CEC: 7 Fert. Level: P1: 79 LB/A, K: 249 LB/A

	Application Description			
	A	B	C	D
Application Date:	03-18-10	04-02-10	04-17-10	05-02-10
Time of Day:	9:00	7:00	8:00	8:00
Application Method:	Spray	Spray	Spray	Spray
Application Timing:	60DBP	45DBP	30DBP	15DBP
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL
Applied By:	RFK	RFK	RFK	RFK
Air Temperature, Unit:	45 F	62 F	52 F	66 F
% Relative Humidity:	60	90	92	92
Wind Velocity, Unit:	0 MPH	5 MPH	0 MPH	0 MPH
Soil Moisture:	ABONOR	NORMAL	NORMAL	ABONOR

	A	B	C	D
Crop stage at application:	NA	NA	NA	NA

	Pest Stage At Each Application			
	A	B	C	D
Application Date:	03-18-10	04-02-10	04-17-10	05-02-10
Stage Majority (leaves):	NA	NA	NA	NA

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

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Pest Code													
Crop Code													
Rating Date													
Rating Data Type													
Rating Unit													
Rating Timing													
Trt-Eval Interval													

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	GLXMA 10-06-10 Moisture Percent	GLXMA 10-06-10 Yield bu/A	GLXMA 06-01-10 Injury Percent	GLXMA 06-08-10 Injury Percent	GLXMA 06-15-10 Injury Percent	GLXMA 06-22-10 Injury Percent	GLXMA 07-06-10 Injury Percent
1	RESOLVE SG	25	SG	0.0156	lb ai/a	1	oz/a	60DBP A		11.6 a	58 ab	0 a	0 a	0 a	0 a	0 a
2	RESOLVE SG	25	SG	0.0313	lb ai/a	2	oz/a	60DBP A		11.5 a	56 ab	0 a	0 a	0 a	0 a	0 a
3	RESOLVE SG	25	SG	0.0156	lb ai/a	1	oz/a	45DBP B		11.5 a	59 ab	0 a	0 a	0 a	0 a	0 a
4	RESOLVE SG	25	SG	0.0313	lb ai/a	2	oz/a	45DBP B		11.5 ab	56 ab	0 a	0 a	0 a	0 a	0 a
5	RESOLVE SG	25	SG	0.0156	lb ai/a	1	oz/a	30DBP C		11.5 ab	57 ab	0 a	0 a	0 a	0 a	0 a
6	RESOLVE SG	25	SG	0.0313	lb ai/a	2	oz/a	30DBP C		11.3 b	56 ab	0 a	0 a	0 a	0 a	0 a
7	RESOLVE SG	25	SG	0.0156	lb ai/a	1	oz/a	15DBP D		11.5 a	54 b	0 a	0 a	0 a	0 a	0 a
8	RESOLVE SG	25	SG	0.0313	lb ai/a	2	oz/a	15DBP D		11.5 a	59 a	0 a	0 a	0 a	0 a	0 a
9	NONTREATED									11.5 a	59 a	0 a	0 a	0 a	0 a	0 a
LSD (P=.05)										0.14	4.4	0.0	0.0	0.0	0.0	0.0
Replicate F										8.714	0.297	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)										0.0004	0.8270	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F										2.374	1.075	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)										0.0485	0.4124	1.0000	1.0000	1.0000	1.0000	1.0000

Means followed by same letter do not significantly differ (P=.05, LSD)

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Pest Code		
Crop Code	GLXMA	GLXMA
Rating Date	06-15-10	09-30-10
Rating Data Type	Plants	Plants
Rating Unit	1 m row	1 m row
Rating Timing		
Trt-Eval Interval	21 DAP	EOS

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
1	RESOLVE SG	25	SG	0.0156	lb ai/a	1	oz/a	60DBP	A	27.5	a
2	RESOLVE SG	25	SG	0.0313	lb ai/a	2	oz/a	60DBP	A	24.5	ab
3	RESOLVE SG	25	SG	0.0156	lb ai/a	1	oz/a	45DBP	B	24.5	ab
4	RESOLVE SG	25	SG	0.0313	lb ai/a	2	oz/a	45DBP	B	24.4	ab
5	RESOLVE SG	25	SG	0.0156	lb ai/a	1	oz/a	30DBP	C	24.9	ab
6	RESOLVE SG	25	SG	0.0313	lb ai/a	2	oz/a	30DBP	C	24.9	ab
7	RESOLVE SG	25	SG	0.0156	lb ai/a	1	oz/a	15DBP	D	23.5	b
8	RESOLVE SG	25	SG	0.0313	lb ai/a	2	oz/a	15DBP	D	27.1	ab
9	NONTREATED									27.0	ab
LSD (P=.05)										3.68	3.40
Replicate F										2.681	0.024
Replicate Prob(F)										0.0696	0.9949
Treatment F										1.318	3.137
Treatment Prob(F)										0.2818	0.0142

Means followed by same letter do not significantly differ (P=.05, LSD)

Trial Comments

1. Protocol: DuPont (10-019).
2. Ratings: CI at 7, 14, 21, 28 and 42 DAP.
Evaluate any effects on soybean emergence.
Soybean stand counts at 21 DAP and at harvest, as (2) 1 meter long row sections per plot.
Count the same area each time, mark the front of both counted areas at 21 DAP.
3. Yield.
4. Blanket application prior to application "A" of Roundup Weathermax (22 fl oz/A) to entire area, was applied 3-16-10.
Maintained weedfree with repeated glyphosate applications throughout the season.
5. DAP = Days after planting. GLXMA Plants, 1 m row = GLXMA Plants per 1.0 meter of row.
The planned 5-17-10 planting date was delayed until 5-25-10 due to wet soil conditions.
6. Harvested 10-6-10, (2) 30 inch rows by 30 ft.