

## Evaluation of the Insecticide Endigo in Soybean.

Trial ID: 08-13-S60

Location: Belleville Res. Center

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 City State Zip Country: Belleville IL 62221 USA  
 Trial Status: FINAL Initiation Date: 06-18-08

Objectives: Determine the crop safety and efficacy of Endigo compared with commercial insecticide standards.

Crop 1: GLXMA Soybean Variety: AG 4404 RR/STS  
 Planting Method: SEEDED Planting Date: 06-18-08  
 Rate, Unit: 75 LB/A Depth, Unit: 1.0 IN  
 Row Spacing, Unit: 30 IN

Code: NA

Plot Width, Unit: 10 FT Site Type: FIELD  
 Plot Length, Unit: 30 FT Tillage Type: REDUCED-TILL  
 Replications: 4 Study Design: Randomized Complete Block

Prior Crops, Year  
 1. ZEAMD 2007

Field Prep./Maintenance: N 0 LB/A, P205 0 LB/A, K20 100 LB/A

% OM: 2.3 Texture: SILT LOAM  
 pH: 5.8 Soil Name: BETHALTO  
 CEC: 13 Fert. Level: P1 79 LB/A, K 386 LB/A

## Application Description

A  
 Application Date: 08-11-08  
 Time of Day: 9:30  
 Application Method: Spray  
 Application Timing: THRESHLD  
 Application Placement: BROFOL  
 Applied By: TGM  
 Air Temperature, Unit: 60 F  
 % Relative Humidity: 90  
 Wind Velocity, Unit: 3 MPH  
 Soil Moisture: NORMAL  
 % Cloud Cover: 0

08-11-08  
 Crop stage at application: R3  
 Height Min, Max (inch): 30 35

## Pest Stage At Each Application

Application Date: 08-11-08  
 Weed Code: NA

## Application Equipment

Appl. Equipment: CO2 sprayer  
 Operating Pressure: 30 PSI  
 Nozzle Type: Flat fan  
 Nozzle Size: XR 8002  
 Boom Length, Unit: 7.5 FT  
 Spray Volume, Unit: 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	Other Rate	Other Rate Unit	Growth Stage	Appl Code	GLXMA 10-27-08 Moisture Percent	GLXMA 10-27-08 Yield bu/A	GLXMA 08-25-08 Height cm	GLXMA 09-08-08 Height cm	GLXMA 08-18-08 Injury Percent	GLXMA 08-25-08 Injury Percent	GLXMA 09-08-08 Injury Percent
1	NONTREATED								12.6 b	52 a	103 a	99 b	0 a	0 a	0 a
2	CENTRIC	40 WG		0.0375 lb ai/a	1.5 oz/a		THRESHLD A		12.7 a	57 a	105 a	105 ab	0 a	0 a	0 a
3	CENTRIC	40 WG		0.05 lb ai/a	2 oz/a		THRESHLD A		12.7 ab	55 a	107 a	105 ab	0 a	0 a	0 a
4	ENDIGO	2.06 SC		0.033 lb ai/a	2.05 fl oz/a		THRESHLD A		12.6 b	53 a	103 a	101 ab	0 a	0 a	0 a
5	ENDIGO	2.06 SC		0.0443 lb ai/a	2.75 fl oz/a		THRESHLD A		12.7 ab	53 a	104 a	105 ab	0 a	0 a	0 a
6	WARRIOR	1 CS		0.0375 lb ai/a	4.8 fl oz/a		THRESHLD A		12.7 ab	53 a	105 a	104 ab	0 a	0 a	0 a
7	WARRIOR	1 CS		0.05 lb ai/a	6.4 fl oz/a		THRESHLD A		12.6 b	56 a	106 a	102 ab	0 a	0 a	0 a
8	CAPTURE	2 EC		0.078 lb ai/a	5 fl oz/a		THRESHLD A		12.7 ab	57 a	109 a	106 a	0 a	0 a	0 a
9	HERO	1.24 EC		0.0775 lb ai/a	8 fl oz/a		THRESHLD A		12.6 ab	53 a	107 a	104 ab	0 a	0 a	0 a
LSD (P=.05)									0.12	6.6	6.6	6.7	0.0	0.0	0.0
Replicate F									2.519	2.388	1.432	0.481	0.000	0.000	0.000
Replicate Prob(F)									0.0820	0.0939	0.2580	0.6985	1.0000	1.0000	1.0000
Treatment F									1.314	0.773	0.743	0.880	0.000	0.000	0.000
Treatment Prob(F)									0.2839	0.6295	0.6538	0.5466	1.0000	1.0000	1.0000

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

## Trial Comments

1. Protocol: Syngenta (TH050A).
2. Ratings: CI at 7 + 14 DAT; Plant height at 14 + 28 DAT; Insect counts per plant at 0, 3, 14 + 21-28 DAT.
3. Yield.
4. Blanket PRE application of Dual (1.33 pt/A) + Sonic (4.5 oz/A) was applied on 6-18-08, and a blanket POST application of Touchdown Total (24 fl oz/A) + AMS was applied on 7-16-08.
5. Make the THRESHLD application according to local threshold guidelines. A pre-count just prior to application is critical. If threshold is not reached by R5 and there is no indication that it will be reached, go ahead and make the applications and assess for crop safety.
6. DA-A = Days after the THRESHLD application.
7. At the Belleville Research Center the above normal rainfall in spring 2008 (no more than four consecutive rain-free days between March 22 and June 15) delayed corn and soybean planting until mid-June.
8. Threshold was not reached, no insect counts were made.
9. Harvested 10-27-08, (2) 30 inch rows by 27 ft.