

CMT560 on Soybean Yield - Site 2.

Trial ID: 09-ARC-13-E60 Location: Agronomy Res. Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu
 City State Zip Country: Carbondale IL 62901 USA
 Trial Status: FINAL Initiation Date: 06-02-09

Objectives: Describe the benefit of foliar insecticide treatments
 on soybean yield.

Crop 1: GLXMA Soybean Variety: P94Y70 Description: RR
 Planting Method: SEEDED Planting Date: 06-02-09
 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: 25 FT Tillage Type: REDUCED-TILL
 Replications: 6 Study Design: Randomized Complete Block

Prior Crops, Year
 1. ZEAMD 2008

% OM: 1.4 Texture: SILT LOAM
 pH: 6.1 Soil Name: WEIR
 CEC: 74 Fert. Level: P1: 69 LB/A, K: 402 LB/A

Application Description

	A	B	C
Application Date:	07-10-09	07-15-09	08-14-09
Time of Day:	7:00	13:30	9:00
Application Method:	Spray	Spray	Spray
Application Timing:	EPOST	MPOST	LPOST
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	DKT	DKT	DKT
Air Temperature, Unit:	80 F	86 F	75 F
% Relative Humidity:	70	60	58
Wind Velocity, Unit:	1 MPH	2 MPH	1 MPH
Wind Direction:	NW	SW	W
Dew Presence (Y/N):	Y	N	Y
Soil Temperature, Unit:	80 F	86 F	80 F
Soil Moisture:	NORMAL	ABONOR	NORMAL
% Cloud Cover:	93	70	10

	07-10-09	07-15-09	08-14-09
Crop stage at application:	V5	R1	R5
Height Min, Max (inch):	8 10 12	15 30	36

Pest Stage At Each Application

	07-10-09	07-15-09	08-14-09
Application Date:	07-10-09	07-15-09	08-14-09
Weed Code:	NA	NA	NA

Application Equipment

	CO2 sprayer	CO2 sprayer	CO2 sprayer
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	30 PSI	30 PSI	30 PSI
Nozzle Type:	Flat fan	Flat fan	Flat fan
Nozzle Size:	XR 8002	XR 8002	XR 8002
Boom Length, Unit:	10 FT	10 FT	10 FT
Spray Volume, Unit:	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

GLXMA GLXMA
11-05-09 11-05-09
Moisture Yield
Percent bu/A

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
1	NONTREATED								10.9 a	52 a
2	CMT560	2	SL	0.078 lb ai/a	5 fl oz/a		EPOST	A	10.7 a	51 a
2	N-PAK AMS	3.4	SL	2 lb ai/a	3.92 % v/v		EPOST	A		
2	CMT560	2	SL	0.078 lb ai/a	5 fl oz/a		MPOST	B		
2	N-PAK AMS	3.4	SL	2 lb ai/a	3.92 % v/v		MPOST	B		
2	CMT560	2	SL	0.078 lb ai/a	5 fl oz/a		LPOST	C		
2	N-PAK AMS	3.4	SL	2 lb ai/a	3.92 % v/v		LPOST	C		
3	CMT560	2	SL	0.078 lb ai/a	5 fl oz/a		EPOST	A	10.8 a	54 a
3	SUPERB HC	100	SL	0.25 % v/v	0.25 % v/v		EPOST	A		
3	N-PAK AMS	3.4	SL	2 lb ai/a	3.92 % v/v		EPOST	A		
3	CMT560	2	SL	0.078 lb ai/a	5 fl oz/a		MPOST	B		
3	SUPERB HC	100	SL	0.25 % v/v	0.25 % v/v		MPOST	B		
3	N-PAK AMS	3.4	SL	2 lb ai/a	3.92 % v/v		MPOST	B		
3	CMT560	2	SL	0.078 lb ai/a	5 fl oz/a		LPOST	C		
3	SUPERB HC	100	SL	0.25 % v/v	0.25 % v/v		LPOST	C		
3	N-PAK AMS	3.4	SL	2 lb ai/a	3.92 % v/v		LPOST	C		
4	CMT560	2	SL	0.094 lb ai/a	6 fl oz/a		EPOST	A	10.7 a	50 a
4	N-PAK AMS	3.4	SL	2 lb ai/a	3.92 % v/v		EPOST	A		
4	CMT560	2	SL	0.094 lb ai/a	6 fl oz/a		MPOST	B		
4	N-PAK AMS	3.4	SL	2 lb ai/a	3.92 % v/v		MPOST	B		
4	CMT560	2	SL	0.094 lb ai/a	6 fl oz/a		LPOST	C		
4	N-PAK AMS	3.4	SL	2 lb ai/a	3.92 % v/v		LPOST	C		
5	CMT560	2	SL	0.094 lb ai/a	6 fl oz/a		EPOST	A	10.8 a	52 a
5	SUPERB HC	100	SL	0.25 % v/v	0.25 % v/v		EPOST	A		
5	N-PAK AMS	3.4	SL	2 lb ai/a	3.92 % v/v		EPOST	A		
5	CMT560	2	SL	0.094 lb ai/a	6 fl oz/a		MPOST	B		
5	SUPERB HC	100	SL	0.25 % v/v	0.25 % v/v		MPOST	B		
5	N-PAK AMS	3.4	SL	2 lb ai/a	3.92 % v/v		MPOST	B		
5	CMT560	2	SL	0.094 lb ai/a	6 fl oz/a		LPOST	C		
5	SUPERB HC	100	SL	0.25 % v/v	0.25 % v/v		LPOST	C		
5	N-PAK AMS	3.4	SL	2 lb ai/a	3.92 % v/v		LPOST	C		
LSD (P=.05)									0.18	4.8
Replicate F									0.648	1.164
Replicate Prob(F)									0.6663	0.3608
Treatment F									0.880	1.039
Treatment Prob(F)									0.4937	0.4118

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

Trial Comments

1. Protocol: Bayer (B5A).
2. Ratings:
3. Application timing instructions: The EPOST and MPOST applications should coincide with traditional Roundup timings, make the LPOST application 30 days after MPOST.
4. Yield plus grain quality.
5. Monitor insects (below ground).
6. Blanket PRE application of Dual Magnum (1.33 pt/A) + Authority First (6 oz/A) was applied on 6-2-09.
7. Harvested 11-5-09, (2) 30 inch rows by 22 ft.