

Headline by Soybean Variety Evaluation - Tamms.

Project Code: 07-Tamms-HeadVar Location: Tamms, IL
Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Tamms IL 62988 USA
Trial Status: Final Updated: 1-24-08

Objective:

Evaluate the effect of Headline applications on soybean yield using multiple soybean varieties.

Crop 1: GLXMA soybean Variety: See treatment list
Planting Method: Seeded Planting Date: 4-30-07
Rate: 75 lb/A Depth: 1.0 IN
Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 24 FT Reps: 5
Tillage Type: No-Till Study Design: Randomized complete block
Previous Crop, Year: GLXMA, 2006
Field Prep./Maintenance: N 0 LB/A, P205 100 LB/A, K20 100 LB/A

APPLICATION DESCRIPTION

A

Application Date: 7-2-07
Time of Day: 12:00
Application Method: Spray
Application Timing: R3
Applic. Placement: BROFOL
Air Temp., Unit: 83 F
% Relative Humidity: 56
Wind Velocity, Unit: 3 MPH
% Cloud Cover: 10

CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage: GLXMA R3
Height, Unit: 24 IN

APPLICATION EQUIPMENT

A

Appl. Equipment: CO2 sprayer
Operating Pressure: 50 PSI
Nozzle Type: Flat fan
Nozzle Size: XR 8002
Boom Length, Unit: 7.5 FT
Spray Volume, Unit: 20 GPA

NOTES:

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Weed Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Code	Insect	FROEYE	FROEYE	FROEYE	DOWMIL	SDS	SDS	Leaves	GRESTE
Rating Data Type	Percent	Sever0-9	Sever0-9	Sever0-9	Sever0-9	% Incid	Sever0-9	Percent	Percent
Rating Unit	7-2-07	7-2-07	7-23-07	8-6-07	7-23-07	7-23-07	7-23-07	10-2-07	10-2-07
Rating Date	0 DA-A	0 DA-A	21 DA-A	35 DA-A	21 DA-A	21 DA-A	21 DA-A	EOS	EOS
Trt-Eval Interval									

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Prod Rate	Prod Unit	Grow Stg	Appl Code									
1	AG 4703								1 a	1.0 a	5.4 b	7.2 a	0.8 ab	2.0 ab	0.2 ab	1 c	3 cd
1	NONTREATED																
2	FS 4646								1 a	1.3 a	7.0 a	7.6 a	0.4 b	0.0 b	0.0 b	0 c	0 d
2	NONTREATED																
3	P94M70								1 a	0.8 a	4.4 b	5.8 b	0.4 b	10.0 a	0.6 ab	0 c	0 d
3	NONTREATED																
4	P94M50								2 a	0.0 b	0.0 d	0.0 e	1.2 ab	4.0 ab	0.4 ab	0 c	1 cd
4	NONTREATED																
5	AG 4703								1 a	0.8 a	2.2 c	3.8 c	0.6 b	0.0 b	0.0 b	12 a	25 a
5	HEADLINE	2.09	EC	0.098 lb ai/a	6 fl oz/a	R3		A									
5	ACTIVATOR 90	100	LIQ	0.125 % v/v	0.125 % v/v	R3		A									
6	FS 4646								2 a	1.3 a	2.4 c	4.8 bc	1.2 ab	2.0 ab	0.2 ab	7 ab	12 bc
6	HEADLINE	2.09	EC	0.098 lb ai/a	6 fl oz/a	R3		A									
6	ACTIVATOR 90	100	LIQ	0.125 % v/v	0.125 % v/v	R3		A									
7	P94M70								1 a	1.0 a	0.6 d	2.6 d	0.4 b	7.0 ab	1.0 a	3 bc	7 cd
7	HEADLINE	2.09	EC	0.098 lb ai/a	6 fl oz/a	R3		A									
7	ACTIVATOR 90	100	LIQ	0.125 % v/v	0.125 % v/v	R3		A									
8	P94M50								1 a	0.0 b	0.0 d	0.0 e	1.6 a	2.0 ab	0.2 ab	11 a	22 ab
8	HEADLINE	2.09	EC	0.098 lb ai/a	6 fl oz/a	R3		A									
8	ACTIVATOR 90	100	LIQ	0.125 % v/v	0.125 % v/v	R3		A									
LSD (P=.05)									1.1	0.64	1.17	1.03	0.80	8.14	0.82	5.5	12.0
Replicate F									2.052	1.750	0.294	7.039	3.679	2.122	2.291	0.980	2.050
Replicate Prob(F)									0.1373	0.1876	0.8795	0.0005	0.0157	0.1045	0.0845	0.4341	0.1144
Treatment F									0.518	5.250	42.257	68.817	2.744	1.554	1.426	7.057	5.854
Treatment Prob(F)									0.8110	0.0014	0.0001	0.0001	0.0266	0.1903	0.2344	0.0001	0.0003

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

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Weed Code	GLXMA	GLXMA	GLXMA
Crop Code	STEPOD	Moisture	Yield
Rating Data Type	Sever0-5	Percent	bu/A
Rating Unit	10-2-07	10-2-07	10-2-07
Rating Date	EOS		
Trt-Eval Interval			

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA	GLXMA	GLXMA			
1	AG 4703									3.4	c	13.2	b	30	bc
1	NONTREATED														
2	FS 4646									4.0	b	13.5	b	28	c
2	NONTREATED														
3	P94M70									4.6	a	13.5	b	40	a
3	NONTREATED														
4	P94M50									2.4	d	13.3	b	42	a
4	NONTREATED														
5	AG 4703									2.4	d	13.3	b	30	bc
5	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	R3	A						
5	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R3	A						
6	FS 4646									2.6	d	13.5	b	40	a
6	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	R3	A						
6	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R3	A						
7	P94M70									3.6	bc	13.5	b	34	b
7	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	R3	A						
7	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R3	A						
8	P94M50									2.2	d	16.1	a	40	a
8	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	R3	A						
8	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R3	A						
LSD (P=.05)										0.54		1.57		4.7	
Replicate F										7.286		1.448		1.526	
Replicate Prob(F)										0.0004		0.2443		0.2218	
Treatment F										22.122		3.071		11.623	
Treatment Prob(F)										0.0001		0.0157		0.0001	

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

Trial Comments

1. Protocol: BASF.
2. Ratings: CI/DI/DS at 21 + 42 DAT.
3. Yield.
4. Blanket application of Dual Magnum (1.33 pt/A) + Firstrate (0.6 oz/A) applied PRE.
 Use glyphosate POST if needed to maintain weed-free.
4. FROEYE = Frog eye leafspot. Insect = Insect damage. SDS = Soybean sudden death syndrome. DOWMIL = downy mildew.
 % Incid = Percent incidence. Sever0-9 = Severity, rating scale 0-9. EOS = End of season.
 Leaves = Percent leaves remaining on the plant at harvest. GRESTE = Green stem.
 STEPOD = Stem and pod diseases, consisting of anthracnose and pod and stem blight,
 Sever0-5 as; 0 = no observable disease, 5 = almost completely black with sporulation.
5. Harvested 10-2-07, (2) 30 inch rows by 20 ft.