

Headline by Soybean Variety Evaluation - Tamms.

Project Code: 06-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:** 10-30-06**Objective:**

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

<b>Crop 1:</b>	GLXMA soybean	<b>Variety:</b>	See treatment list
<b>Planting Method:</b>	Seeded	<b>Planting Date:</b>	5-15-06
<b>Rate:</b>	75 lb/A	<b>Depth:</b>	1.0 IN
<b>Row Spacing:</b>	30 IN	<b>Seed Bed:</b>	No Till
		<b>Soil Moisture:</b>	ABOVE NORMAL

<b>Plot Width, Unit:</b>	10 FT	<b>Plot Length, Unit:</b>	24 FT	<b>Reps:</b>	5
<b>Tillage Type:</b>	No-Till	<b>Study Design:</b>	Randomized complete block		
<b>Previous Crop, Year:</b>	GLXMA, 2005				
<b>Field Prep./Maintenance:</b>	N 18 LB/A, P205 46 LB/A, K20 60 LB/A				

**APPLICATION DESCRIPTION**

	<b>A</b>
<b>Application Date:</b>	7-25-06
<b>Time of Day:</b>	12:30
<b>Application Method:</b>	Spray
<b>Application Timing:</b>	R3
<b>Applic. Placement:</b>	BROFOL
<b>Air Temp., Unit:</b>	83 F
<b>% Relative Humidity:</b>	57
<b>Wind Velocity, Unit:</b>	6 MPH
<b>Dew Presence (Y/N):</b>	N
<b>Soil Moisture:</b>	NORMAL
<b>% Cloud Cover:</b>	0

**CROP STAGE AT EACH APPLICATION**

	<b>A</b>
<b>Crop 1 Code, Stage:</b>	GLXMA R3
<b>Height, Unit:</b>	36 IN

**APPLICATION EQUIPMENT**

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

**NOTES:**

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Weed Code																	
Crop Code																	
Rating Data Type																	
Rating Unit																	
Rating Date																	
Trt-Eval Interval																	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA Moisture Percent	GLXMA Yield bu/A	GLXMA STEPOD Sever0-5	GLXMA FROEYE Sever0-9	GLXMA FROEYE Sever0-9	GLXMA FROEYE Sever0-9	GLXMA CERKIK Sever0-5	GLXMA CERKIK Sever0-5	GLXMA CERKIK Sever0-5
1	AG 4703								12.7	50	2.60	5.0	6.1	8.2	0.00	0.00	0.00
1	NONTREATED																
2	FS 4646								13.7	47	3.80	2.8	4.4	8.6	0.00	0.00	0.00
2	NONTREATED																
3	P94M70								13.9	42	3.60	2.2	4.6	8.2	0.00	0.00	0.00
3	NONTREATED																
4	P94M50								12.9	56	1.80	0.0	0.0	0.0	0.00	0.00	0.00
4	NONTREATED																
5	AG 4703								12.6	62	1.60	5.6	1.6	4.2	0.00	0.00	0.00
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								12.8	57	2.20	2.6	0.6	3.8	0.00	0.00	0.40
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								13.0	52	3.20	2.6	0.4	2.5	0.00	0.00	0.00
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								12.9	57	1.20	0.0	0.0	0.0	0.00	0.00	0.00
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)									0.42	5.6	0.975	1.47	0.57	0.84	0.000	0.000	0.410
Replicate F									3.776	1.473	2.539	0.601	0.624	1.561	0.000	0.000	1.000
Replicate Prob(F)									0.0141	0.2368	0.0620	0.6650	0.6489	0.2123	1.0000	1.0000	0.4241
Treatment F									11.498	11.399	8.177	15.778	151.979	151.573	0.000	0.000	1.000
Treatment Prob(F)									0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	1.0000	1.0000	0.4520

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Weed Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Code	SDS	SDS	SDS	SDS	SDS	SDS
Rating Data Type	% Incid	Sever0-9	% Incid	Sever0-9	% Incid	Sever0-9
Rating Unit	7-25-06	7-25-06	8-15-06	8-15-06	9-9-06	9-9-06
Rating Date	0 DA-A	0 DA-A	21 DA-A	21 DA-A	46 DA-A	46 DA-A
Trt-Eval Interval						

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Prod Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code						
1	AG 4703									1	0.4	6	0.8	10	0.6
1	NONTREATED														
2	FS 4646									0	0.2	4	1.4	0	0.0
2	NONTREATED														
3	P94M70									0	0.0	15	2.4	0	0.0
3	NONTREATED														
4	P94M50									0	0.0	2	0.8	14	1.6
4	NONTREATED														
5	AG 4703									0	0.2	8	1.2	23	1.4
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									0	0.0	0	0.0	4	0.4
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									0	0.0	14	1.8	22	2.2
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									3	0.4	9	1.6	10	1.2
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)										2.4	0.57	11.3	1.15	20.0	1.62
Replicate F										0.610	0.778	0.469	2.778	0.944	0.700
Replicate Prob(F)										0.6585	0.5490	0.7579	0.0462	0.4530	0.5985
Treatment F										1.639	0.815	1.883	3.392	1.695	2.034
Treatment Prob(F)										0.1655	0.5828	0.1105	0.0095	0.1509	0.0859

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.
5. FROEYE = Frog eye leafspot. SDS = Soybean sudden death syndrome.  
CERKIK = Cercospora kikuchii. STEPOD = Stem and pod diseases. % Incid = Percent incidence.  
Sever0-5 and Sever0-9 = Severity, rating scales of 0-5 and 0-9, respectively.  
DA-A = Days after R3 application. EOS = End of season.
6. Harvested 10-4-06, (2) 30 inch rows by 20 ft.