

Headline by Soybean Variety Evaluation - ARC.

Project Code: 06-ARC-24E-N80 Location: Carbondale, IL
Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Carbondale IL 62901 USA
Trial Status: Final Updated: 10-30-06**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: 5-22-06
Rate: 75 lb/A Depth: 1.0 IN
Row Spacing: 30 INPlot Width, Unit: 10 FT Plot Length, Unit: 24 FT Reps: 6
Tillage Type: No-Till Study Design: Randomized complete block
Previous Crop, Year: GLXMA, 2005
Field Prep./Maintenance: N 18 LB/A, P205 46 LB/A, K20 60 LB/ASoil Name: Weir % OM: 1.9 pH: 6 CEC: 6.5
Texture: Silt loam Fert. Level: P1: 76 LB/A, K: 301 LB/A**APPLICATION DESCRIPTION**

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Application Date: 7-31-06
Time of Day: 15:30
Application Method: Spray
Application Timing: R3
Applic. Placement: BROFOL
Air Temp., Unit: 95 F
% Relative Humidity: 45
Wind Velocity, Unit: 3-4 MPH
Dew Presence (Y/N): N
Soil Moisture: NORMAL
% Cloud Cover: 10
CROP STAGE AT EACH APPLICATION

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Crop 1 Code, Stage: GLXMA R3
Height, Unit: 38-45 IN
APPLICATION EQUIPMENT

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

GLXMA GLXMA GLXMA GLXMA GLXMA GLXMA GLXMA
 Moisture Yield FROEYE FROEYE Injury Injury STEPOD
 Percent bu/A Sever0-9 Sever0-9 Percent Percent Sever0-5
 10-9-06 10-9-06 8-21-06 9-12-06 8-21-06 9-11-06 10-9-06
 21 DA-A 43 DA-A 21 DA-A 42 DA-A EOS

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA Moisture Percent	GLXMA Yield bu/A	GLXMA FROEYE Sever0-9	GLXMA FROEYE Sever0-9	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA STEPOD Sever0-5
1	AG 4703									11.5	53	7.0	7.5	0	0	2.17
1	NONTREATED															
2	FS 4646									11.7	57	5.2	7.0	0	0	3.17
2	NONTREATED															
3	P94M70									11.9	51	5.0	7.0	0	0	3.67
3	NONTREATED															
4	P94M50									11.5	58	0.2	0.2	0	0	2.50
4	NONTREATED															
5	AG 4703									11.4	67	2.0	2.7	0	0	1.33
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									11.5	62	0.7	1.2	0	0	1.33
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									11.8	58	0.7	1.5	0	0	2.00
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									11.5	63	0.0	0.0	0	0	1.17
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)										0.20	6.2	0.55	0.68	0.0	0.0	0.893
Replicate F										3.460	0.537	3.998	1.305	0.000	0.000	0.668
Replicate Prob(F)										0.0121	0.7471	0.0057	0.2844	1.0000	1.0000	0.6502
Treatment F										5.738	6.179	205.147	187.416	0.000	0.000	8.631
Treatment Prob(F)										0.0002	0.0001	0.0001	0.0001	1.0000	1.0000	0.0001

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.
 Sever0-5 and Sever0-9 = Severity, rating scales of 0-5 and 0-9, respectively.
 STEPOD = Stem and pod diseases, consisting of approximately 60% anthracnose and 40% pod and stem blight.
 DA-A = Days after R3 application. EOS = End of season.
6. Harvested 10-9-06, (2) 30 inch rows by 20 ft.