Headline Applications Study in Soybean.

Project Code: 04-Nehring Location: Murphysboro, IL
Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Murphysboro IL 62221 USA
Trial Status: Final Updated: 9-27-04

Objective:
Determine the influence of application methods on the efficacy of Headline.

Weed Code	Common Name	Scientific Name
1.	NA	

Crop 1:	GLXMA	soybean	Variety:	FS HS 3706 RR
Planting Method:	Seeded		Planting Date:	5-8-04
Rate:	55	lb/A	Depth:	1.0 IN
Row Spacing:	15	IN		

Plot Width, Unit: 10 FT Plot Length, Unit: 50 FT Reps: 3
Tillage Type: Reduced-Till Study Design: Randomized complete block
Previous Crop, Year: ZEAMX, 2003

Field Prep./Maintenance: N 0 LB/A, P2O5 __ LB/A, K2O ___ LB/A

APPLICATION DESCRIPTION

	A
Application Date:	7-24-04
Time of Day:	9:00
Application Method:	Spray
Application Timing:	R3
Applic. Placement:	BROFOL
Air Temp., Unit:	78 F
% Relative Humidity:	50
Wind Velocity, Unit:	5-10 MPH
Dew Presence (Y/N):	N
Soil Moisture:	BELNOR
% Cloud Cover:	90

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	GLXMA R3
Height, Unit:	26-32 IN

APPLICATION EQUIPMENT

	A
Appl. Equipment:	CO2 sprayer
Operating Pressure:	See note
Nozzle Type:	See note
Nozzle Size:	See note
Boom Length, Unit:	6.67 FT
Spray Volume, Unit:	See note

NOTES:
Application speed, volume, and nozzle type are listed in treatment list.
Application pressure depends on nozzle size and volume.
Harvested 9-24-04, (4) 15 inch rows x 48 ft.

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA LeafDrop Percent 9-13-04 51 DA-A	GLXMA Moisture Percent 9-24-04	GLXMA Test wt. lb/bu 9-24-04	GLXMA Yield bu/A 9-24-04
1	NONTREATED									87	12.1	55.4	68
2	10 MPH									48	12.3	55.2	73
2	15 GPA												
2	XR 11006 NOZZLES												
2	HEADLINE	2.09	EC	0.1	LB A/A	6	FL OZ/A	R3	A				
2	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	% V/V	R3	A				
3	10 MPH									65	12.0	55.6	68
3	15 GPA												
3	XR 11006 NOZZLES												
3	HEADLINE	2.09	EC	0.1	LB A/A	6	FL OZ/A	R3	A				
3	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	R3	A				
4	10 MPH									58	12.5	55.6	73
4	15 GPA												
4	TT11006												
4	HEADLINE	2.09	EC	0.1	LB A/A	6	FL OZ/A	R3	A				
4	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	R3	A				
5	10 MPH									52	12.1	55.3	72
5	15 GPA												
5	AI 11004 NOZZLES												
5	HEADLINE	2.09	EC	0.1	LB A/A	6	FL OZ/A	R3	A				
5	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	R3	A				
6	10 MPH									60	12.3	55.4	70
6	5 GPA												
6	XR 11002 NOZZLES												
6	HEADLINE	2.09	EC	0.1	LB A/A	6	FL OZ/A	R3	A				
6	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	R3	A				
7	10 MPH									57	12.0	55.5	72
7	5 GPA												
7	TT11002												
7	HEADLINE	2.09	EC	0.1	LB A/A	6	FL OZ/A	R3	A				
7	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	R3	A				
8	10 MPH									47	12.1	55.2	74
8	5 GPA												
8	AI 110015 NOZZLES												
8	HEADLINE	2.09	EC	0.1	LB A/A	6	FL OZ/A	R3	A				
8	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	R3	A				
9	10 MPH									57	12.4	55.4	74
9	15 GPA												
9	XR 11006 NOZZLES												
9	HEADLINE	2.09	EC	0.1	LB A/A	6	FL OZ/A	R3	A				
9	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	R3	A				
9	AMS	100	DRY	1.02	% W/W	8.5	LB/100 GAL	R3	A				

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA LeafDrop Percent 9-13-04 51 DA-A	GLXMA Moisture Percent 9-24-04	GLXMA Test wt. lb/bu 9-24-04	GLXMA Yield bu/A 9-24-04
10	10 MPH									60	11.7	55.3	67
10	15 GPA												
10	TT11006												
10	HEADLINE	2.09	EC	0.1	LB A/A	6	FL OZ/A	R3	A				
10	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	R3	A				
10	AMS	100	DRY	1.02	% W/W	8.5	LB/100 GAL	R3	A				
11	10 MPH									68	12.3	55.7	65
11	15 GPA												
11	AI 11004 NOZZLES												
11	HEADLINE	2.09	EC	0.1	LB A/A	6	FL OZ/A	R3	A				
11	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	R3	A				
11	AMS	100	DRY	1.02	% W/W	8.5	LB/100 GAL	R3	A				
12	10 MPH									62	12.1	55.7	67
12	15 GPA												
12	XR 11006 NOZZLES												
12	HEADLINE	2.09	EC	0.1	LB A/A	6	FL OZ/A	R3	A				
12	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	R3	A				
12	ARRAY	100	DRY	1.08	% W/W	9	LB/100 GAL	R3	A				
13	10 MPH									73	11.7	55.8	64
13	15 GPA												
13	TT11006												
13	HEADLINE	2.09	EC	0.1	LB A/A	6	FL OZ/A	R3	A				
13	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	R3	A				
13	ARRAY	100	DRY	1.08	% W/W	9	LB/100 GAL	R3	A				
14	10 MPH									57	12.2	55.8	65
14	15 GPA												
14	AI 11004 NOZZLES												
14	HEADLINE	2.09	EC	0.1	LB A/A	6	FL OZ/A	R3	A				
14	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	R3	A				
14	ARRAY	100	DRY	1.08	% W/W	9	LB/100 GAL	R3	A				
LSD (P=.05)										18.4	0.64	0.60	6.4
Replicate F										3.869	0.474	1.196	0.175
Replicate Prob(F)										0.0338	0.6280	0.3184	0.8402
Treatment F										2.699	1.105	0.917	2.512
Treatment Prob(F)										0.0151	0.3974	0.5486	0.0221

Trial Comments

1. Protocol: BASF.
2. Ratings: Monitor disease if possible.
3. Yield.
4. Mix amounts are for 1 gallon.
5. Keep study weed free with blanket herbicide applications.
6. No observable crop injury at 14 and 30 DAT. No observable diseases as of 9-1-04.