

## Evaluation of Reduced Rates of Headline in Soybean.

Project Code: 06-13-N70      Location: Belleville Research Center  
 Investigator: Bryan Young

**Investigator:** Bryan Young, Associate Professor, Southern Illinois University

**City State Zip Country:**      Belleville      IL 62221 USA  
**Trial Status:** Final      **Updated:**      10-30-06

**Objective:**

Evaluate the potential benefit of Headline applied at reduced rates and/or earlier timings in soybean.

**Crop 1:**              GLXMA soybean              **Variety:**      Asgrow 4403 RR  
**Planting Method:** Seeded              **Planting Date:** 5-30-06  
**Rate:**              75      lb/A              **Depth:**      1.0 IN  
**Row Spacing:**      30 IN

**Plot Width, Unit:** 10 FT              **Plot Length, Unit:** 46 FT      **Reps:** 4  
**Tillage Type:** Reduced-Till              **Study Design:** Randomized complete block  
**Previous Crop, Year:** \_\_\_\_\_, 2005  
**Field Prep./Maintenance:** N 0 LB/A, P205 50 LB/A, K20 100 LB/A

**Soil Name:** Ebbert              **% OM:** 2.3      **pH:** 5.8      **CEC:** 13  
**Texture:** Silt loam              **Fert. Level:** P1: 79 LB/A, K: 386 LB/A

**APPLICATION DESCRIPTION**

	A	B	C
<b>Application Date:</b>	7-6-06	7-14-06	7-31-06
<b>Time of Day:</b>	9:00	9:00	9:00
<b>Application Method:</b>	Spray	Spray	Spray
<b>Application Timing:</b>	V6	R1	R3
<b>Applic. Placement:</b>	BROFOL	BROFOL	BROFOL
<b>Air Temp., Unit:</b>	68 F	74 F	82 F
<b>% Relative Humidity:</b>	80	92	92
<b>Wind Velocity, Unit:</b>	1-3 MPH	2-3 MPH	1-2 MPH
<b>Soil Moisture:</b>	NORMAL	ABONOR	NORMAL

**CROP STAGE AT EACH APPLICATION**

	A	B	C
<b>Crop 1 Code, Stage:</b>	GLXMA V6	GLXMA R1	GLXMA R3
<b>Height, Unit:</b>	12-14 IN	15-16 IN	29 IN

**APPLICATION EQUIPMENT**

	A	B	C
<b>Appl. Equipment:</b>	CO2 sprayer	CO2 sprayer	CO2 sprayer
<b>Operating Pressure:</b>	50 PSI	50 PSI	50 PSI
<b>Nozzle Type:</b>	Flat fan	Flat fan	Flat fan
<b>Nozzle Size:</b>	XR 8002	XR 8002	XR 8002
<b>Boom Length, Unit:</b>	7.5 FT	7.5 FT	7.5 FT
<b>Spray Volume, Unit:</b>	20 GPA	20 GPA	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	GLXMA	GLXMA
Moisture	Yield	FROEYE	FROEYE	DOWMIL	DOWMIL	BROSPO	BROSPO	80% LD
Percent	bu/A	Sever0-9	Sever0-9	Sever0-5	Sever0-5	Sever0-5	Sever0-5	DAP
10-21-06	10-21-06	8-1-06	9-1-06	8-1-06	9-1-06	8-1-06	9-1-06	
		26 DA-A	32 DA-C	26 DA-A	32 DA-C	26 DA-A	32 DA-C	

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA Moisture	GLXMA Yield	GLXMA FROEYE	GLXMA FROEYE	GLXMA DOWMIL	GLXMA DOWMIL	GLXMA BROSPO	GLXMA BROSPO	GLXMA 80% LD
1	HEADLINE	2.09	EC	0.049	lb ai/a	3	fl oz/a	V6	A	13.3	52	0.0	0.9	2.00	2.00	0.50	0.50	122
1	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	V6	A									
2	HEADLINE	2.09	EC	0.049	lb ai/a	3	fl oz/a	R1	B	13.4	52	0.0	1.4	2.25	3.25	1.25	1.50	123
2	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R1	B									
3	HEADLINE	2.09	EC	0.0735	lb ai/a	4.5	fl oz/a	R1	B	13.2	54	0.0	2.8	2.25	3.25	0.75	0.75	126
3	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R1	B									
4	NONTREATED									13.3	50	0.0	0.9	2.50	2.75	3.75	3.75	123
5	HEADLINE	2.09	EC	0.049	lb ai/a	3	fl oz/a	R3	C	13.4	52	0.0	0.0	2.25	2.50	3.50	3.50	127
5	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R3	C									
6	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	R3	C	13.3	53	0.0	0.0	2.25	2.75	3.75	3.50	128
6	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R3	C									
7	HEADLINE	2.09	EC	0.049	lb ai/a	3	fl oz/a	V6	A	13.4	52	0.0	0.3	1.75	2.25	1.50	1.50	127
7	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	V6	A									
7	HEADLINE	2.09	EC	0.049	lb ai/a	3	fl oz/a	R3	C									
7	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R3	C									
LSD (P=.05)										0.26	3.2	0.00	0.98	1.127	0.863	0.837	0.968	2.5
Replicate F										3.626	2.854	0.000	0.901	0.228	0.671	0.300	0.673	5.413
Replicate Prob(F)										0.0331	0.0661	1.0000	0.4601	0.8760	0.5811	0.8250	0.5797	0.0078
Treatment F										0.643	0.950	0.000	8.559	0.393	2.647	27.000	18.421	7.957
Treatment Prob(F)										0.6949	0.4849	1.0000	0.0002	0.8738	0.0509	0.0001	0.0001	0.0003

