

## Headline Adjuvant Study - Agrilience.

Project Code: 06-BP-Agrilience Location: Brookport, IL  
Investigator: Bryan Young

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

**City State Zip Country:** Brookport IL 62910 USA  
**Trial Status:** Final **Updated:** 11-22-06

**Objective:**

Evaluate Agrilience adjuvant systems for enhancement of Headline efficacy.

**Crop 1:** GLXMA soybean **Variety:** FS4646 RR  
**Planting Method:** Seeded **Planting Date:** 6-16-06  
**Rate:** 60 lb/A **Depth:** 1.0 IN  
**Row Spacing:** 30 IN

**Plot Width, Unit:** 10 FT **Plot Length, Unit:** 30 FT **Reps:** 4  
**Tillage Type:** Reduced-Till **Study Design:** Randomized complete block  
**Previous Crop, Year:** ZEAMX, 2005

**APPLICATION DESCRIPTION**

**A**  
**Application Date:** 8-15-06  
**Time of Day:** 11:30  
**Application Method:** Spray  
**Application Timing:** R3  
**Applic. Placement:** BROFOL  
**Air Temp., Unit:** 86 F  
**% Relative Humidity:** 43  
**Wind Velocity, Unit:** 6 MPH  
**Dew Presence (Y/N):** N  
**Soil Moisture:** NORMAL  
**% Cloud Cover:** 5

**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:** 40-50 PSI  
**Nozzle Type:** Flat fan  
**Nozzle Size:** 8002  
**Boom Length, Unit:** 7.5 FT  
**Spray Volume, Unit:** 20 GPA

**NOTES:**

Headline Adjuvant Study - Agrilience.

Project Code: 06-BP-Agrilience Location: Brookport, IL  
 Investigator: Bryan Young

Weed Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Code	Moisture	Test wt.	Yield	FROEYE	BROSPO	DOWMIL	SDS	SDS	Injury
Rating Data Type	Percent	lb/bu	bu/A	Sever0-9	Sever0-5	Sever0-5	% Incid	Sever0-9	Percent
Rating Unit	11-4-06	11-4-06	11-4-06	9-5-06	9-5-06	9-5-06	9-5-06	9-5-06	9-5-06
Rating Date				21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Trt-Eval Interval									

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA Moisture Percent	GLXMA Test wt. lb/bu	GLXMA Yield bu/A	GLXMA FROEYE Sever0-9	GLXMA BROSPO Sever0-5	GLXMA DOWMIL Sever0-5	GLXMA SDS % Incid	GLXMA SDS Sever0-9	GLXMA Injury Percent
1	NONTREATED									12.1	52.6	43	2.5	2.00	1.75	0	0.0	0
2	HEADLINE	2.09	EC	0.065	lb ai/a	4	fl oz/a	R3	A	11.9	52.6	48	0.3	0.00	1.75	0	0.0	0
3	HEADLINE	2.09	EC	0.065	lb ai/a	4	fl oz/a	R3	A	12.1	52.7	50	0.2	1.00	1.25	0	0.0	0
3	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R3	A									
4	HEADLINE	2.09	EC	0.065	lb ai/a	4	fl oz/a	R3	A	12.0	52.6	43	0.1	0.25	1.75	0	0.0	0
4	AG 02013	100	LIQ	2.0	fl oz/a	2	fl oz/a	R3	A									
4	PREFERENCE	100	LIQ	0.25	% v/v	0.25	% v/v	R3	A									
5	HEADLINE	2.09	EC	0.065	lb ai/a	4	fl oz/a	R3	A	12.1	52.6	48	0.1	0.25	1.25	0	0.0	0
5	AG 02013	100	LIQ	2.0	fl oz/a	2	fl oz/a	R3	A									
5	SUPERB HC	100	LIQ	0.5	% v/v	0.5	% v/v	R3	A									
6	HEADLINE	2.09	EC	0.065	lb ai/a	4	fl oz/a	R3	A	11.9	52.5	47	0.1	0.00	1.50	0	0.0	0
6	AG 06470	100	LIQ	1.0	% v/v	1	% v/v	R3	A									
7	HEADLINE	2.09	EC	0.065	lb ai/a	4	fl oz/a	R3	A	12.0	52.6	41	0.1	0.00	1.25	0	0.0	0
7	AG 06011	100	LIQ	5.0	fl oz/a	5	fl oz/a	R3	A									
8	HEADLINE	2.09	EC	0.065	lb ai/a	4	fl oz/a	R3	A	12.0	52.7	44	0.0	0.00	1.50	0	0.0	0
8	AG 06037	100	LIQ	1.0	% v/v	1	% v/v	R3	A									
9	HEADLINE	2.09	EC	0.065	lb ai/a	4	fl oz/a	R3	A	11.9	52.4	47	0.1	0.25	1.50	0	0.3	0
9	AG 06038	100	LIQ	1.0	% v/v	1	% v/v	R3	A									
10	HEADLINE	2.09	EC	0.065	lb ai/a	4	fl oz/a	R3	A	11.9	52.7	41	0.1	0.00	1.50	0	0.0	0
10	AG 02013	100	LIQ	2.0	fl oz/a	2	fl oz/a	R3	A									
10	AG 04050	100	LIQ	8.0	fl oz/a	8	fl oz/a	R3	A									
11	HEADLINE	2.09	EC	0.065	lb ai/a	4	fl oz/a	R3	A	12.0	52.7	41	0.2	0.00	1.75	0	0.0	0
11	AG 02013	100	LIQ	2.0	fl oz/a	2	fl oz/a	R3	A									
11	AG 06470	100	LIQ	1.0	% v/v	1	% v/v	R3	A									
12	HEADLINE	2.09	EC	0.065	lb ai/a	4	fl oz/a	R3	A	12.1	52.8	43	0.0	0.00	1.50	0	0.0	0
12	AG 02013	100	LIQ	2.0	fl oz/a	2	fl oz/a	R3	A									
12	AG 05004	100	LIQ	8.0	fl oz/a	8	fl oz/a	R3	A									
12	PREFERENCE	100	LIQ	0.125	% v/v	0.125	% v/v	R3	A									
13	HEADLINE	2.09	EC	0.065	lb ai/a	4	fl oz/a	R3	A	11.9	52.5	44	0.1	0.00	1.50	0	0.0	0
13	AG 02013	100	LIQ	2.0	fl oz/a	2	fl oz/a	R3	A									
13	PREFERENCE	100	LIQ	0.25	% v/v	0.25	% v/v	R3	A									
13	MAX-IN MN	100	LIQ	2.0	pt/a	2	pt/a	R3	A									
14	HEADLINE	2.09	EC	0.065	lb ai/a	4	fl oz/a	R3	A	12.1	52.8	46	0.1	0.00	1.50	0	0.0	0
14	AG 02013	100	LIQ	2.0	fl oz/a	2	fl oz/a	R3	A									
14	PREFERENCE	100	LIQ	0.25	% v/v	0.25	% v/v	R3	A									
14	MAX-IN FOR BEANS	100	LIQ	2.0	pt/a	2	pt/a	R3	A									
LSD (P=.05)										0.30	0.43	9.8	0.26	0.736	0.756	0.2	0.19	0.2
Replicate F										0.791	0.537	1.075	2.845	2.402	1.596	1.000	1.000	1.000
Replicate Prob(F)										0.5066	0.6596	0.3708	0.0500	0.0822	0.2059	0.4031	0.4031	0.4031
Treatment F										0.830	0.632	0.678	50.725	4.855	0.476	1.000	1.000	1.000
Treatment Prob(F)										0.6272	0.8127	0.7718	0.0001	0.0001	0.9250	0.4697	0.4697	0.4697

Trial Comments

1. Protocol: Agrilience.
2. Ratings: CI / DI / DS at 21 + 42 DAT.
3. Yield if possible.
4. FROEYE = Frog eye leafspot. BROSPO = Septoria brown spot. DOWMIL = downy mildew.  
 SDS = Soybean sudden death syndrome. % Incid = Percent incidence.  
 Sever0-5 and Sever0-9 = Severity, rating scales of 0-5 and 0-9, respectively.  
 DA-A = Days after R3 application.
5. On 9-26-06 (42 DAT) soybean leaves were yellow, thus not able to make final ratings.
6. Harvested 11-4-06, (2) 30 inch rows by 25 ft.