

Agrilience Adjuvants for Foliar Fungicides in Soybean.

Project Code: 05-21S-W30      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:**      12-02-05**Objective:**Determine the effectiveness of adjuvants applied with  
Headline in soybean.**Crop 1:**      GLXMA soybean      **Variety:**      Asgrow 4403 RR  
**Planting Method:** Seeded      **Planting Date:** 6-17-05  
**Rate:**      75 lb/A      **Depth:**      1.0 IN  
**Row Spacing:**      30 IN**Plot Width, Unit:** 10 FT      **Plot Length, Unit:** 30 FT      **Reps:** 3  
**Tillage Type:**      Reduced-Till      **Study Design:** Randomized complete block  
**Previous Crop, Year:** ZEAMX, 2004**Field Prep./Maintenance:** N 0 LB/A, P205 0 LB/A, K20 100 LB/A**Soil Name:** Ebbert      **% OM:** 2.7      **pH:** 6.2      **CEC:** 14  
**Texture:**      Silt loam      **Fert. Level:** P1: 115 LB/A, K: 500 LB/A**APPLICATION DESCRIPTION****A****Application Date:**      08-19-05  
**Time of Day:**      8:30  
**Application Method:**      Spray  
**Application Timing:**      R3  
**Applic. Placement:**      BROFOL  
**Air Temp., Unit:**      84 F  
**% Relative Humidity:**      60  
**Wind Velocity, Unit:**      3 MPH  
**Soil Moisture:**      ABONOR**CROP STAGE AT EACH APPLICATION****A****Crop 1 Code, Stage:**      GLXMA R4  
**Height, Unit:**      34-36 IN**APPLICATION EQUIPMENT****A****Appl. Equipment:**      CO2 sprayer  
**Operating Pressure:**      50-60 PSI  
**Nozzle Type:**      Flat fan  
**Nozzle Size:**      8002  
**Boom Length, Unit:**      7.5 FT  
**Spray Volume, Unit:**      20 GPA**NOTES:**

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Weed Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Code	Moisture	Yield	Injury	Injury	Disease
Rating Data Type	Percent	bu/A	Percent	Percent	Percent
Rating Unit	10-19-05	10-19-05	09-02-05	09-16-05	09-16-05
Rating Date	61 DA-A	61 DA-A	14 DA-A	28 DA-A	28 DA-A
Trt-Eval Interval					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA Moisture	GLXMA Yield	GLXMA Injury	GLXMA Injury	GLXMA Disease
1	NONTREATED								11.4	59	0	0	0
2	HEADLINE	2.09	EC	0.065 lb ai/a	4 fl oz/a	R3	A		11.8	61	0	0	0
3	HEADLINE	2.09	EC	0.065 lb ai/a	4 fl oz/a	R3	A		11.3	64	0	0	0
3	AG 05017	100	LIQ	2.0 fl oz/a	2 fl oz/a	R3	A						
3	PREFERENCE	100	LIQ	0.25 % v/v	0.25 % v/v	R3	A						
4	HEADLINE	2.09	EC	0.065 lb ai/a	4 fl oz/a	R3	A		11.5	61	0	0	0
4	AG 05017	100	LIQ	2.0 fl oz/a	2 fl oz/a	R3	A						
4	SUPERB HC	100	LIQ	0.5 % v/v	0.5 % v/v	R3	A						
5	HEADLINE	2.09	EC	0.065 lb ai/a	4 fl oz/a	R3	A		12.1	62	0	0	0
5	AG 05017	100	LIQ	2.0 fl oz/a	2 fl oz/a	R3	A						
5	AG 05006	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		11.5	62	0	0	0
6	AG 05017	100	LIQ	2.0 fl oz/a	2 fl oz/a	R3	A						
6	AG 04050	100	LIQ	8.0 fl oz/a	8 fl oz/a	R3	A						
7	HEADLINE	2.09	EC	0.065 lb ai/a	4 fl oz/a	R3	A		13.4	57	0	0	0
7	AG 05017	100	LIQ	2.0 fl oz/a	2 fl oz/a	R3	A						
7	AG 04051	100	LIQ	8.0 fl oz/a	8 fl oz/a	R3	A						
8	HEADLINE	2.09	EC	0.065 lb ai/a	4 fl oz/a	R3	A		11.6	61	0	0	0
8	AG 05017	100	LIQ	2.0 fl oz/a	2 fl oz/a	R3	A						
8	PREFERENCE	100	LIQ	0.25 % v/v	0.25 % v/v	R3	A						
8	MAX-IN MN	100	LIQ	1.0 qt/a	1 qt/a	R3	A						
9	HEADLINE	2.09	EC	0.065 lb ai/a	4 fl oz/a	R3	A		11.4	60	0	0	0
9	AG 05017	100	LIQ	2.0 fl oz/a	2 fl oz/a	R3	A						
9	PREFERENCE	100	LIQ	0.25 % v/v	0.25 % v/v	R3	A						
9	MAX-IN FOR BEANS	100	LIQ	1.0 qt/a	1 qt/a	R3	A						
LSD (P=.05)									1.23	7.7	0.0	0.0	0.0
Replicate F									0.266	2.430	0.000	0.000	0.000
Replicate Prob(F)									0.7700	0.1198	1.0000	1.0000	1.0000
Treatment F									2.466	0.610	0.000	0.000	0.000
Treatment Prob(F)									0.0592	0.7572	1.0000	1.0000	1.0000

Trial Comments

1. Protocol: Agrilience.
2. Ratings: CI 14 and 28 DAT; Disease ratings 28 DAT.
3. Yield.
4. Spraying instructions: Use 50-60 PSI.
5. Harvested 10-19-05, (2) 30 inch rows by 27 ft.