

## Fungicide Evaluation in Double-Crop Soybean.

Project Code: 06-8B-DCsoyFung 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:** 1-25-07

**Objective:**

Determine the benefit of foliar fungicide applications to short-season double-crop soybean.

**Crop 1:** GLXMA soybean **Variety:** Asgrow 4403 RR  
**Planting Method:** Seeded **Planting Date:** 6-20-06  
**Rate:** 75 lb/A **Depth:** 1.0 IN  
**Row Spacing:** 15 IN

**Plot Width, Unit:** 10 FT **Plot Length, Unit:** 28 FT **Reps:** 4  
**Tillage Type:** No-Till **Study Design:** Randomized complete block  
**Previous Crop, Year:** TRAZW, 2006  
**Field Prep./Maintenance:** N 0 LB/A, P2O5 0 LB/A, K2O 0 LB/A

**Soil Name:** Weir **% OM:** 1.8 **pH:** 6 **CEC:** 10  
**Texture:** Silt loam **Fert. Level:** P1: 79 LB/A, K: 418 LB/A

**APPLICATION DESCRIPTION**

**A**  
**Application Date:** 8-18-06  
**Time of Day:** 9:00  
**Application Method:** Spray  
**Application Timing:** R3  
**Applic. Placement:** BROFOL  
**Air Temp., Unit:** 80 F  
**% Relative Humidity:** 92  
**Wind Velocity, Unit:** 3 MPH  
**Soil Moisture:** BELNOR

**CROP STAGE AT EACH APPLICATION**

**A**  
**Crop 1 Code, Stage:** GLXMA R3  
**Height, Unit:** 18-20 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:**

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

GLXMA GLXMA GLXMA  
LeafDrop Moisture Yield  
Percent Percent bu/A  
10-10-06 10-23-06 10-23-06

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA LeafDrop Percent	GLXMA Moisture Percent	GLXMA Yield bu/A
1	QUADRIS	2.08	F	0.101	lb ai/a	6.2	fl oz/a	R3	A	71	15.8	34
1	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R3	A			
2	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	R3	A	64	16.0	41
2	ACTIVATOR 90	100	LIQ	0.125	% v/v	0.125	% v/v	R3	A			
3	FOLICUR	3.6	F	0.112	lb ai/a	4	fl oz/a	R3	A	73	15.6	39
4	HEADLINE SBR (CO-PACK)					7.8	fl oz/a	R3	A	61	15.8	40
4	->TEBUCONAZOLE	3.6	F	0.087	lb ai/a			R3	A			
4	->HEADLINE	2.09	EC	0.077	lb ai/a			R3	A			
5	STRATEGO	2.08	EC	0.114	lb ai/a	7	fl oz/a	R3	A	66	16.2	37
6	QUILT	1.67	F	0.183	lb ai/a	14	fl oz/a	R3	A	65	16.0	35
7	HEADLINE/CARAMBA (CO-PACK)					11.9	fl oz/a	R3	A	64	16.2	40
7	->CARAMBA	0.75	SL	0.044	lb ai/a			R3	A			
7	->HEADLINE	2.09	EC	0.072	lb ai/a			R3	A			
8	CARAMBA	0.75	SL	0.048	lb ai/a	8.2	fl oz/a	R3	A	75	15.4	37
9	NONTREATED									80	15.6	34
10	NONTREATED											
11	TOPGUARD	1.04	SC	0.057	lb ai/a	7	fl oz/a	R3	A	73	15.4	41
LSD (P=.05)										13.3	0.74	10.1
Replicate F										4.676	2.359	0.828
Replicate Prob(F)										0.0096	0.0938	0.4903
Treatment F										1.730	1.432	0.648
Treatment Prob(F)										0.1323	0.2238	0.7469

## Trial Comments

1. Protocol: ISA - Bond, Young.
2. Ratings: CI/DI/DS at 21 + 42 DAT.
3. Assess % defoliation when nontreated plot reaches 80% defoliation.
4. Yield.
5. Blanket application and weed-free.
6. Harvested 10-23-06, (2) 30 inch rows by 25 ft.