

## Evaluation of Lactofen for Suppression of SDS.

Project Code: 03-WhiteCo-SDS Location: White County, IL

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country: White County IL 62821 USA  
 Trial Status: Final Updated: 10-28-03

**Objective:**

Determine the influence of lactofen on the development of Sudden Death Syndrome in soybean.

Crop 1: GLXMA soybean Variety: Gateway 4R415  
 Planting Method: Seeded Planting Date: 5-24-03  
 Rate: 75 lb/A Depth: 1.0 IN  
 Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 10 FT Reps: 4  
 Tillage Type: Reduced-Till Study Design: Randomized complete block

**APPLICATION DESCRIPTION**

**A**  
 Application Date: 7-24-03  
 Time of Day: 19:00  
 Application Method: Spray  
 Application Timing: R1  
 Applic. Placement: BROFOL  
 Air Temp., Unit: 77 F  
 % Relative Humidity: 75  
 Wind Velocity, Unit: 0 MPH  
 Dew Presence (Y/N): N  
 Soil Temp., Unit: 83 F  
 Soil Moisture: NORMAL  
 % Cloud Cover: 10

**CROP STAGE AT EACH APPLICATION**

**A**  
 Crop 1 Code, Stage: GLXMA R1  
 Height, Unit: 26 IN

**APPLICATION EQUIPMENT**

**A**  
 Appl. Equipment: CO2 sprayer  
 Operating Pressure: 40 PSI  
 Nozzle Type: Flat fan  
 Nozzle Size: 8002  
 Boom Length, Unit: 7.5 FT  
 Spray Volume, Unit: 15 GPA

**NOTES:**

Harvested Oct-23-03, (2) 30 inch rows by 10 ft.

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Weed Code												
Crop Code												
Rating Data Type												
Rating Unit												
Rating Date												
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 Injury Percent	GLXMA Injury Percent	GLXMA SDS-DI Percent	GLXMA SDS-DS Percent
1	NONTREATED									13.5	50.5	57	0	0	3	1
2	PHOENIX	2	EC	0.094	LB A/A	6	FL OZ/A	R1	A	13.6	50.7	49	28	10	5	0
2	ROUNDUP W-MAX	4.5	SL	0.75	LB AE/A	21.3	FL OZ/A	R1	A							
2	AMS	100	DRY	2.0	% W/W	2	% W/W	R1	A							
3	COBRA	2	EC	0.094	LB A/A	6	FL OZ/A	R1	A	13.5	51.2	53	29	7	8	1
3	ROUNDUP W-MAX	4.5	SL	0.75	LB AE/A	21.3	FL OZ/A	R1	A							
3	AMS	100	DRY	2.0	% W/W	2	% W/W	R1	A							
4	ROUNDUP W-MAX	4.5	SL	0.75	LB AE/A	21.3	FL OZ/A	R1	A	13.7	50.9	58	6	3	4	1
4	AMS	100	DRY	2.0	% W/W	2	% W/W	R1	A							
LSD (P=.05)										0.39	0.71	4.9	5.0	3.8	6.8	1.0
Replicate F										0.327	2.077	17.479	0.315	4.938	6.486	1.995
Replicate Prob(F)										0.8062	0.1817	0.0004	0.8145	0.0269	0.0125	0.1853
Treatment F										0.609	1.740	7.855	90.422	14.128	1.000	1.077
Treatment Prob(F)										0.6256	0.2360	0.0070	0.0001	0.0009	0.4363	0.4069

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Trial Comments

1. Protocol: Valent.
2. Ratings: CI 14 and 28 DAT; SDS scores.
3. SDS-DI = Sudden Death Syndrome Disease Incidence. SDS-DS = Sudden Death Syndrome Disease Severity.
4. DA-A = days after R1 application.