

DuPont Soybean Fungicide and Insecticide Demonstration with Yields.

Trial ID: 14-19B Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Trial Status: F one-year/final Initiation Date: 5-19-14 Completion Date: 10-24-14		Trial Location
City: Belleville	Country: USA	
State/Prov.: Illinois IL		
Postal Code: 62221		

Objectives:
Evaluate DuPont fungicides and insecticides in soybean.

Study Director: Ronald F. Krausz Organization: Belleville Research Center - Southern Illinois Univ Carbondale Address: 2036 Charles Lane City+State/Prov: Belleville, IL Postal Code: 62221 Country: USA		Contacts Title: Researcher/Farm Manager Phone No.: 618-566-4761 E-mail: rkrausz@siu.edu
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Crop 1: GLXMA Glycine max Soybean Variety: AG3832 Description: RR2Y		BBCH Scale: BSOY Planting Date: 5-19-14 Planting Method: SEDED Planting Rate, Unit: 140000 S/A Depth, Unit: 1 IN Row Spacing, Unit: 30 IN
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Pest 1 Type: D Code: SEPTGL Common Name: Brown spot of soybean	Pest Description
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Treated Plot Width: 10FT Treated Plot Length: 50FT		Total Plot Width: 10FT Total Plot Length: 50FT		Site Type: FIELD Experimental Unit: 1 PLOT Tillage Type: REDTIL reduced-till Study Design: RACOB L Randomized Complete Block (RCB)
Replications: 2 Untreated Arrangement: INCLUDED single control randomized in each block				
No.	Previous Crop	Year		
1.	ZEAMD	2013		

Maintenance	
No.	Maintenance Product Name
1.	N 0 LB/A, P2O5 50 LB/A, K2O 100 LB/A

% OM: 3.5 pH: 6.6 CEC: 12			Texture: SIL silt loam Soil Name: Bethalto
Soil Description			
Additional Measured Elements			
Element	Quantity	Unit	
P1	54	lb/A	
K	335	lb/A	

Overall Moisture Conditions: NORMAL Closest Weather Station: ICN - Belleville IL		Moisture and Weather Conditions Distance, Unit: 0.5 MI
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No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	5-6-14					7	DAY	56	86	F
2.	5-8-14	0.13	IN	RAIN	rain	2	DAY			
3.	5-12-14	0.88	IN	RAIN	rain	4	DAY			
4.	5-13-14					7	DAY	37	76	F
5.	5-20-14					7	DAY	55	87	F
6.	5-21-14	0.06	IN	RAIN	rain	1	DAY			
7.	5-25-14	0.49	IN	RAIN	rain	2	DAY			
8.	5-27-14	0.08	IN	RAIN	rain	2	DAY			
9.	5-27-14					7	DAY	60	86	F
10.	5-31-14	0.14	IN	RAIN	rain	1	DAY			
11.	6-1-14	0.13	IN	RAIN	rain	1	DAY			
12.	6-3-14					7	DAY	59	90	F
13.	6-4-14	0.67	IN	RAIN	rain	1	DAY			
14.	6-7-14	0.6	IN	RAIN	rain	1	DAY			
15.	6-9-14	1.38	IN	RAIN	rain	2	DAY			
16.	6-10-14					7	DAY	51	90	F
17.	6-12-14	0.07	IN	RAIN	rain	1	DAY			
18.	6-15-14	0.02	IN	RAIN	rain	1	DAY			
19.	6-17-14					7	DAY	67	92	F
20.	6-20-14	2.09	IN	RAIN	rain	5	DAY			
21.	6-24-14					7	DAY	65	91	F
22.	6-27-14	0.11	IN	RAIN	rain	2	DAY			
23.	7-1-14	0.01	IN	RAIN	rain	1	DAY			
24.	7-1-14					7	DAY	55	90	F
25.	7-7-14	0.79	IN	RAIN	rain	2	DAY			
26.	7-8-14					7	DAY	59	89	F
27.	7-12-14	0.49	IN	RAIN	rain	3	DAY			
28.	7-15-14					7	DAY	54	85	F
29.	7-22-14					7	DAY	57	98	F
30.	7-25-14	0.02	IN	RAIN	rain	1	DAY			
31.	7-29-14					7	DAY	52	89	F
32.	8-1-14	0.04	IN	RAIN	rain	1	DAY			
33.	8-5-14	4.04	IN	RAIN	rain	4	DAY			
34.	8-5-14					7	DAY	66	88	F
35.	8-12-14					7	DAY	57	84	F
36.	8-15-14	1.21	IN	RAIN	rain	3	DAY			
37.	8-19-14					7	DAY	67	95	F
38.	8-20-14	0.11	IN	RAIN	rain	1	DAY			
39.	8-27-14	1.56	IN	RAIN	rain	2	DAY			
40.	8-1-14	0.04	IN	RAIN	rain	1	DAY			
41.	8-5-14	4.04	IN	RAIN	rain	4	DAY			
42.	8-5-14					7	DAY	66	88	F
43.	8-12-14					7	DAY	57	84	F
44.	8-15-14	1.21	IN	RAIN	rain	3	DAY			
45.	8-19-14					7	DAY	67	95	F
46.	8-20-14	0.11	IN	RAIN	rain	1	DAY			
47.	8-26-14					7	DAY	68	95	F
48.	8-27-14	1.56	IN	RAIN	rain	2	DAY			
49.	9-1-14	2.21	IN	RAIN	rain	2	DAY			
50.	9-2-14					7	DAY	54	93	F
51.	9-5-14	0.24	IN	RAIN	rain	1	DAY			
52.	9-9-14					7	DAY	45	85	F
53.	9-10-14	1.06	IN	RAIN	rain	1	DAY			
54.	9-16-14					7	DAY	46	86	F
55.	9-23-14					7	DAY	46	86	F
56.	9-30-14					7	DAY	37	87	F
57.	10-1-14	0.99	IN	RAIN	rain	3	DAY			
58.	10-6-14	0.31	IN	RAIN	rain	2	DAY			
59.	10-7-14					7	DAY	46	77	F
60.	10-9-14	1.44	IN	RAIN	rain	2	DAY			
61.	10-12-14	1.24	IN	RAIN	rain	3	DAY			
62.	10-14-14					7	DAY	37	73	F
63.	10-21-14					7	DAY	36	82	F
64.	10-28-14	0.26	IN	RAIN	rain	1	DAY			

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	A
Application Date:	7-12-14
Appl. Start Time:	6:00
Appl. Stop Time:	6:30
Application Method:	Spray
Application Timing:	R3
Application Placement:	BROFOL
Applied By:	RFK
Air Temperature, Unit:	76 F
% Relative Humidity:	94
Wind Velocity, Unit:	0 MPH
Dew Presence (Y/N):	N
Soil Temperature, Unit:	78 F
Soil Moisture:	NORMAL
% Cloud Cover:	100
Next Moisture Occurred On:	7-13-14
Time to Next Moisture, Unit:	39 HR

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	GLXMA
Stage Scale Used:	DESC
Stage Majority, Percent:	R3
Stage Minimum, Percent:	R3
Stage Maximum, Percent:	R3
Height, Unit:	30 IN
Height Minimum, Maximum:	28 30

Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	SEPTGL D
Stage Majority, Percent:	NA

Application Equipment

	A
Appl. Equipment:	CO2 sprayer
Equipment Type:	BACSPR
Operation Pressure, Unit:	30 PSI
Nozzle Type:	XR
Nozzle Size:	8002
Boom Length, Unit:	10 FT
Spray Volume, Unit:	15 GPA

Southern Illinois University

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Pest Code								GLXMA	GLXMA	GLXMA	SEPTGL	SEPTGL
Crop Code								10-24-14	10-24-14	10-24-14	GLXMA	GLXMA
Rating Date								Moisture	Test wt.	Yield	8-2-14	8-2-14
Rating Type								Percen	lb/bu	bu/A	Incidence	Severity
Rating Unit											Percent	Percent
Rating Timing												
Trt-Eval Interval											21 DA-A	21 DA-A
Trt Treatment	Form	Form	Rate	Other	Other	Growth	Appl					
No. Name	Conc	Type	Rate	Unit	Rate	Rate	Unit Stage	Code				
1 APROACH	2.08 SC	0.0975 lb ai/a	6 fl oz/a	R3	A				14.0 a	56.6 a	73 a	0.0 a
2 ASANA XL	0.66 EC	0.0413 lb ai/a	8 fl oz/a	R3	A				13.8 a	56.8 a	73 a	0.0 a
3 APROACH	2.08 SC	0.0975 lb ai/a	6 fl oz/a	R3	A				13.9 a	56.7 a	75 a	0.0 a
ASANA XL	0.66 EC	0.0413 lb ai/a	8 fl oz/a	R3	A							0.0 a
4 APROACH PRIMA	2.34 SC	0.124 lb ai/a	6.8 fl oz/a	R3	A				13.7 a	56.8 a	78 a	0.0 a
5 APROACH PRIMA	2.34 SC	0.124 lb ai/a	6.8 fl oz/a	R3	A				14.1 a	56.5 a	83 a	0.0 a
ASANA XL	0.66 EC	0.0413 lb ai/a	8 fl oz/a	R3	A							0.0 a
6 APROACH	2.08 SC	0.0975 lb ai/a	6 fl oz/a	R3	A				13.7 a	56.8 a	75 a	0.0 a
PREVATHON	0.43 SC	0.047 lb ai/a	14 fl oz/a	R3	A							0.0 a
7 NO FUNGICIDE NO INSECTICIDE									13.7 a	56.8 a	73 a	0.0 a
LSD (P=.05)									0.33	0.20	11.1	0.00
Standard Deviation									0.14	0.08	4.5	0.00
CV									0.98	0.14	5.96	0.0
Replicate F									1.164	2.245	0.157	0.000
Replicate Prob(F)									0.3220	0.1847	0.7053	1.0000
Treatment F									2.887	3.058	1.353	0.000
Treatment Prob(F)									0.1113	0.0998	0.3615	1.0000

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Trial Comments

1. Protocol: DuPont (Soybean Demo).
2. Ratings: DI/DS 21 DA-A
3. Yield.
4. Blanket PRE application of Trivence (8 oz/A) was applied to all plots on 5-21-14.
Blanket POST application of Abundit Extra (32 floz/A) was applied to all plots on 6-5-14 and 6-25-14.
Maintained weed-free.
5. SEPTGL = Septoria glycines, Brown spot of soybean.
6. Harvested 10-24-14, (2) 30 inch rows by 47 ft.