

Insecticides and Fungicides

Southern Illinois University

Double-Crop Soybean Fungicide and Insecticide Demonstration - Dupont.

Trial ID: 13-11C-M40-DC-SOY Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Trial Status: F one-year/final Initiation Date: 7-8-13 Completion Date: 11-10-13	Trial Location City: Belleville Country: USA State/Prov.: Illinois IL Postal Code: 62221
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Objectives:
Evaluate the influence of a mid-August fungicide plus insecticide application on yield of double-crop soybean.

Study Director: Bryan Young Organization: Southern Illinois University Address: 1205 Lincoln Drive - AG 176 - MC 4415 City+State/Prov: Carbondale IL Postal Code: 62901 Country: USA	Contacts Title: Professor Phone No.: 618-453-7679 Mobile No.: 618-713-6471 E-mail: bgyoung@siu.edu
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Crop 1: GLXMA Glycine max Soybean Variety: AG3832 Description: RR2Y Planting Rate, Unit: 75 LB/A Planting Date: 7-8-13 Depth, Unit: 1 IN Planting Method: SEEDED Row Spacing, Unit: 15 IN	Crop Description
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Treated Plot Width: 7.5 FT Total Plot Width: 10 FT Treated Plot Length: 60 FT Total Plot Length: 60 FT Replications: 2 Untreated Arrangement: INCLUDED single control randomized in each block	Site and Design Site Type: FIELD Experimental Unit: 1 PLOT Tillage Type: NOTILL no-till Study Design: RACOB L Randomized Complete Block (RCB)						
<table><tr><th>No.</th><th>Previous Crop</th><th>Year</th></tr><tr><td>1.</td><td>TRZAW</td><td>2012</td></tr></table>	No.	Previous Crop	Year	1.	TRZAW	2012	
No.	Previous Crop	Year					
1.	TRZAW	2012					

<table><tr><th>No.</th><th>Maintenance Product Name</th></tr><tr><td>1.</td><td>N 0 LB/A, P2O5 0 LB/A, K2O 0 LB/A</td></tr></table>	No.	Maintenance Product Name	1.	N 0 LB/A, P2O5 0 LB/A, K2O 0 LB/A	Maintenance
No.	Maintenance Product Name				
1.	N 0 LB/A, P2O5 0 LB/A, K2O 0 LB/A				

% OM: 2.9 Texture: SIL silt loam pH: 6.4 Soil Name: Bethalto CEC: 12	Soil Description									
<table><tr><th>Element</th><th>Quantity</th><th>Unit</th></tr><tr><td>P1</td><td>57</td><td>lb/A</td></tr><tr><td>K</td><td>275</td><td>lb/A</td></tr></table>	Element	Quantity	Unit	P1	57	lb/A	K	275	lb/A	Additional Measured Elements
Element	Quantity	Unit								
P1	57	lb/A								
K	275	lb/A								

Overall Moisture Conditions: ABONOR 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.	6-30-13					7	DAY	61	86	F
2.	7-2-13	2.08	IN	RAIN	rain	2	DAY			
3.	7-7-13					7	DAY	62	94	F
4.	7-10-13	0.2	IN	RAIN	rain	1	DAY			
5.	7-14-13					7	DAY	64	94	F
6.	7-15-13	0.03	IN	RAIN	rain	1	DAY			
7.	7-20-13	0.59	IN	RAIN	rain	1	DAY			
8.	7-21-13					7	DAY	56	91	F
9.	7-26-13	0.03	IN	RAIN	rain	1	DAY			
10.	7-28-13					7	DAY	52	87	F
11.	7-30-13	0.46	IN	RAIN	rain	1	DAY			
12.	8-2-13	0.24	IN	RAIN	rain	1	DAY			
13.	8-4-13					7	DAY	62	87	F
14.	8-8-13	0.03	IN	RAIN	rain	3	DAY			
15.	8-11-13					7	DAY	54	85	F
16.	8-12-13	0.57	IN	RAIN	rain	1	DAY			
17.	8-18-13	0.1	IN	RAIN	rain	1	DAY			
18.	8-18-13					7	DAY	61	91	F
19.	8-25-13					7	DAY	62	100	F
20.	8-31-13	0.74	IN	RAIN	rain	1	DAY			
21.	9-1-13					7	DAY	57	92	F
22.	9-8-13	0.26	IN	RAIN	rain	1	DAY			

Application Description

	A
Application Date:	8-28-13
Appl. Start Time:	10:00
Appl. Stop Time:	10:30
Application Method:	Spray
Application Timing:	R3
Application Placement:	BROFOL
Applied By:	RFK
Air Temperature, Unit:	89 F
% Relative Humidity:	50
Wind Velocity, Unit:	2 MPH
Wind Direction:	W
Dew Presence (Y/N):	N
Soil Temperature, Unit:	75 F
Soil Moisture:	NORMAL
% Cloud Cover:	0
Next Moisture Occurred On:	8-31-13
Time to Next Moisture, Unit:	3 DAY

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:	18 IN
Height Minimum, Maximum:	16 18

Pest Stage At Each Application

Pest 1 Code, Type, Scale:	

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Trial ID: 13-11C-M40-DC-SOY Location: Belleville Res. Center Trial Year: 2013
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	A
Appl. Equipment:	CO2 sprayer
Equipment Type:	BACSPR
Operation Pressure, Unit:	30 PSI
Nozzle Type:	XR
Nozzle Size:	8002
Boom Length, Unit:	7.5 FT
Spray Volume, Unit:	15 GPA

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								GLXMA 11-10-13 Moisture Percent	GLXMA 11-10-13 Test wt. lb/bu	GLXMA 11-10-13 Yield bu/A	GLXMA 9-18-13 Injury Percent 21 DA-A	SEPTGL 9-18-13 Incidence Percent 21 DA-A	SEPTGL 9-18-13 Severity Percent 21 DA-A			
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code							
1	APPROACH ASANA XL	2.08 SC 0.66 EC		0.0975 lb ai/a 0.0495 lb ai/a	lb ai/a	6 fl oz/a 9.6 fl oz/a		R3 R3	A A	13.3 a	57.1 a	62 a	0 a	0.0 a	0.0 a	
2	2 APROACH ASANA XL LANNATE LV	2.08 SC 0.66 EC 2.4 SL		0.0975 lb ai/a 0.031 lb ai/a 0.225 lb ai/a	lb ai/a	6 fl oz/a 6 fl oz/a 12 fl oz/a		R3 R3 R3	A A A	13.0 a	57.2 a	67 a	0 a	0.0 a	0.0 a	
3	3 APROACH PREVATHON	2.08 SC 0.43 SC		0.0975 lb ai/a 0.054 lb ai/a	lb ai/a	6 fl oz/a 1 pt/a		R3 R3	A A	13.2 a	57.1 a	57 a	0 a	0.0 a	0.0 a	
4	4 NO FUNGICIDE NO INSECTICIDE										13.0 a	57.2 a	56 a	0 a	0.0 a	0.0 a
LSD (P=.05)								0.54	0.41	30.1	0.0	0.00	0.00			
Standard Deviation								0.17	0.13	9.4	0.0	0.00	0.00			
CV								1.28	0.22	15.55	0.0	0.0	0.0			
Replicate F								0.142	0.007	0.485	0.000	0.000	0.000			
Replicate Prob(F)								0.7311	0.9389	0.5363	1.0000	1.0000	1.0000			
Treatment F								1.014	0.672	0.508	0.000	0.000	0.000			
Treatment Prob(F)								0.4956	0.6242	0.7039	1.0000	1.0000	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 (USA-13-755).
2. Ratings: DI/DS at 21 DA-A.
3. Blanket herbicide applications:
PRE Valor (2 oz/A) + Classic (1.25 oz/A) + Sencor (4.75 oz/A) was applied on 7-8-13;
POST (before V3) Cinch (1 pt/A) + Abundit Extra (1 qt/A) was applied on 7-26-13.
4. Application timing is R3 soybean and mid-August.
5. Yield.
6. SEPTGL = Septoria glycines, Brown spot of soybean.
7. Harvested 11-10-13, (4) 15 inch rows by 57 ft.