

Syngenta Grow More Soybeans Story.

Trial ID: 14-3-W310 Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Trial Status: F one-year/final Initiation Date: 5-23-14 Completion Date: 9-30-14		Trial Location
City: Belleville	Country: USA	
State/Prov.: Illinois IL		
Postal Code: 62221		

Objectives: Compare Syngenta soybean and programs to competitor soybean.
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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: See treatment list BBCH Scale: BSOY Planting Rate, Unit: 140000 S/A Depth, Unit: 1 IN Row Spacing, Unit: 30 IN	Crop Description Planting Date: 5-23-14 Planting Method: SEEDED
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Pest 1 Type: W Code: PANDI Panicum dichotomiflorum Michx. Common Name: panicum, fall Pest 2 Type: W Code: IPOHE Ipomoea hederacea (L.) Jacq. Common Name: morningglory, ivyleaf Pest 3 Type: W Code: AMBTR Ambrosia trifida L. Common Name: ragweed, giant Pest 4 Type: W Code: XANST Xanthium strumarium L. Common Name: cocklebur, common Pest 5 Type: D Code: SEPTGL Septoria glycines Common Name: Brown spot of soybean Pest 6 Type: D Code: FUSAVI Fusarium virguliforme Common Name: sudden death syndrome of soybean Description: SDS	Pest Description
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Treated Plot Width: 10 FT Total Plot Width: 10 FT Treated Plot Length: 200 FT Total Plot Length: 200 FT Replications: 3 Untreated Arrangement: NONE control is other than an untreated	Site and Design Site Type: FIELD Experimental Unit: 1 PLOT Tillage Type: REDTIL reduced-till Study Design: RACOB L Randomized Complete Block (RCB)						
<table border="1"> <thead> <tr> <th>No.</th> <th>Previous Crop</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>GLXMA</td> <td>2013</td> </tr> </tbody> </table>	No.	Previous Crop	Year	1.	GLXMA	2013	
No.	Previous Crop	Year					
1.	GLXMA	2013					

<table border="1"> <thead> <tr> <th>No.</th> <th>Maintenance Product Name</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>N 0 LB/A, P2O5 50 LB/A, K2O 150 LB/A</td> </tr> </tbody> </table>	No.	Maintenance Product Name	1.	N 0 LB/A, P2O5 50 LB/A, K2O 150 LB/A	Maintenance
No.	Maintenance Product Name				
1.	N 0 LB/A, P2O5 50 LB/A, K2O 150 LB/A				

Description Name: After planting, before herbs. % Sand: 12.5 % OM: 2.1 Texture: SIL silt loam % Silt: 72.5 pH: 6.8 Soil Name: Bethalto % Clay: 15 CEC: 12	Soil Description									
<table border="1"> <thead> <tr> <th>Element</th> <th>Quantity</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>P1</td> <td>85</td> <td>lb/A</td> </tr> <tr> <td>K</td> <td>345</td> <td>lb/A</td> </tr> </tbody> </table>	Element	Quantity	Unit	P1	85	lb/A	K	345	lb/A	Additional Measured Elements
Element	Quantity	Unit								
P1	85	lb/A								
K	345	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.	4-29-14					7	DAY	41	87	F
2.	5-6-14					7	DAY	56	86	F
3.	5-8-14	0.13	IN	RAIN	rain	2	DAY			
4.	5-12-14	0.88	IN	RAIN	rain	4	DAY			
5.	5-13-14					7	DAY	37	76	F
6.	5-20-14					7	DAY	55	87	F
7.	5-21-14	0.06	IN	RAIN	rain	1	DAY			
8.	5-25-14	0.49	IN	RAIN	rain	2	DAY			
9.	5-27-14	0.08	IN	RAIN	rain	2	DAY			
10.	5-27-14					7	DAY	60	86	F
11.	5-31-14	0.14	IN	RAIN	rain	1	DAY			
12.	6-1-14	0.13	IN	RAIN	rain	1	DAY			
13.	6-3-14					7	DAY	59	90	F
14.	6-4-14	0.67	IN	RAIN	rain	1	DAY			
15.	6-7-14	0.6	IN	RAIN	rain	1	DAY			
16.	6-9-14	1.38	IN	RAIN	rain	2	DAY			
17.	6-10-14					7	DAY	51	90	F
18.	6-12-14	0.07	IN	RAIN	rain	1	DAY			
19.	6-15-14	0.02	IN	RAIN	rain	1	DAY			
20.	6-17-14					7	DAY	67	92	F
21.	6-20-14	2.09	IN	RAIN	rain	5	DAY			
22.	6-24-14					7	DAY	65	91	F
23.	6-27-14	0.11	IN	RAIN	rain	2	DAY			
24.	7-1-14	0.01	IN	RAIN	rain	1	DAY			
25.	7-1-14					7	DAY	55	90	F
26.	7-7-14	0.79	IN	RAIN	rain	2	DAY			
27.	7-8-14					7	DAY	59	89	F
28.	7-12-14	0.49	IN	RAIN	rain	3	DAY			
29.	7-15-14					7	DAY	54	85	F
30.	7-22-14					7	DAY	57	98	F
31.	7-25-14	0.02	IN	RAIN	rain	1	DAY			
32.	7-29-14					7	DAY	52	89	F
33.	8-1-14	0.04	IN	RAIN	rain	1	DAY			
34.	8-5-14	4.04	IN	RAIN	rain	4	DAY			
35.	8-5-14					7	DAY	66	88	F
36.	8-12-14					7	DAY	57	84	F
37.	8-15-14	1.21	IN	RAIN	rain	3	DAY			
38.	8-19-14					7	DAY	67	95	F
39.	8-20-14	0.11	IN	RAIN	rain	1	DAY			
40.	8-26-14					7	DAY	68	95	F
41.	8-27-14	1.56	IN	RAIN	rain	2	DAY			
42.	9-1-14	2.21	IN	RAIN	rain	2	DAY			
43.	9-2-14					7	DAY	54	93	F
44.	9-5-14	0.24	IN	RAIN	rain	1	DAY			
45.	9-9-14					7	DAY	45	85	F
46.	9-10-14	1.06	IN	RAIN	rain	1	DAY			
47.	9-16-14					7	DAY	46	86	F
48.	9-23-14					7	DAY	46	86	F
49.	9-30-14					7	DAY	37	87	F
50.	10-1-14	0.99	IN	RAIN	rain	3	DAY			

Application Description

	A	B	C
Application Date:	5-24-14	6-25-14	7-15-14
Appl. Start Time:	8:00	15:00	17:00
Appl. Stop Time:	8:30	16:00	18:00
Application Method:	Spray	Spray	Spray
Application Timing:	PRE	4-6"W	R3
Application Placement:	BROSOL	BROFOL	BROFOL
Applied By:	RFK	RFK	LXF
Air Temperature, Unit:	73 F	87 F	72 F
% Relative Humidity:	55	46	55
Wind Velocity, Unit:	2 MPH	0 MPH	4 MPH
Wind Direction:	SE		N
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	67 F	78 F	75 F
Soil Moisture:	NORMAL	ABONOR	NORMAL
% Cloud Cover:	100	0	50
Next Moisture Occurred On:	5-25-14	6-27-14	7-25-14
Time to Next Moisture, Unit:	26 HR	2 DAY	10 DAY

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Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA	GLXMA	GLXMA
Stage Scale Used:	DESC	DESC	DESC
Stage Majority, Percent:	NA	R1	R3
Stage Minimum, Percent:		R1	R3
Stage Maximum, Percent:		R1	R3
Height, Unit:		10 IN	25 IN
Height Minimum, Maximum:		8 10	22 25

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	PANDI W	PANDI W	PANDI W
Stage Majority, Percent:	NA	8	NA
Stage Minimum, Percent:		8	
Stage Maximum, Percent:		10	
Height, Unit:		10 IN	
Height Minimum, Maximum:		10 12	
Density, Unit:		0.0001 FT2	
Pest 2 Code, Type, Scale:	IPOHE W	IPOHE W	IPOHE W
Stage Majority, Percent:	NA	10	NA
Stage Minimum, Percent:		8	
Stage Maximum, Percent:		20	
Height, Unit:		8 IN	
Height Minimum, Maximum:		4 10	
Density, Unit:		0.001 FT2	
Pest 3 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent:	NA	10	NA
Stage Minimum, Percent:		8	
Stage Maximum, Percent:		10	
Height, Unit:		8 IN	
Height Minimum, Maximum:		4 8	
Density, Unit:		0.001 FT2	
Pest 4 Code, Type, Scale:	XANST W	XANST W	XANST W
Stage Majority, Percent:	NA	10	NA
Stage Minimum, Percent:		8	
Stage Maximum, Percent:		10	
Height, Unit:		8 IN	
Height Minimum, Maximum:		4 10	
Density, Unit:		0.0001 FT2	
Pest 5 Code, Type, Scale:	SEPTGL D	SEPTGL D	SEPTGL D
Stage Majority, Percent:	NA	NA	NA
Pest 6 Code, Type, Scale:	FUSAVI D	FUSAVI D	FUSAVI D
Stage Majority, Percent:	NA	NA	NA

Application Equipment

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

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								GLXMA 9-30-14 Moisture	GLXMA 9-30-14 Test wt	GLXMA 9-30-14 Yield
Trt Treatment Form Form Rate Other Other Growth Appl No. Name Conc Type Rate Unit Rate Rate Unit Stage Code								Percent	lb/bu	bu/A
1 S38-W4 SOYBEAN NO SEED TREATMENT BOUNDARY 6.5 EC 1.35 lb ai/a 1.66 pt/a PRE A FLEXSTAR GT 3.5 2.82 SL 1.23 lb ae/a 3.5 pt/a 4-6"W B MSO (MSO ULTRA) 100 SL 1 % v/v 1 % v/v 4-6"W B N-PAK AMS 100 SL 2.5 % v/v 2.5 % v/v 4-6"W B								10.2 a	56.1 a	46 e
2 S38-W4 SOYBEAN TREATED SEED BOUNDARY 6.5 EC 1.35 lb ai/a 1.66 pt/a PRE A FLEXSTAR GT 3.5 2.82 SL 1.23 lb ae/a 3.5 pt/a 4-6"W B MSO (MSO ULTRA) 100 SL 1 % v/v 1 % v/v 4-6"W B N-PAK AMS 100 SL 2.5 % v/v 2.5 % v/v 4-6"W B								10.1 a	56.2 a	52 d
3 S39-U2 SOYBEAN NO SEED TREATMENT BOUNDARY 6.5 EC 1.35 lb ai/a 1.66 pt/a PRE A FLEXSTAR GT 3.5 2.82 SL 1.23 lb ae/a 3.5 pt/a 4-6"W B MSO (MSO ULTRA) 100 SL 1 % v/v 1 % v/v 4-6"W B N-PAK AMS 100 SL 2.5 % v/v 2.5 % v/v 4-6"W B								10.3 a	56.0 a	58 b
4 S39-U2 SOYBEAN TREATED SEED BOUNDARY 6.5 EC 1.35 lb ai/a 1.66 pt/a PRE A FLEXSTAR GT 3.5 2.82 SL 1.23 lb ae/a 3.5 pt/a 4-6"W B MSO (MSO ULTRA) 100 SL 1 % v/v 1 % v/v 4-6"W B N-PAK AMS 100 SL 2.5 % v/v 2.5 % v/v 4-6"W B								10.2 a	56.0 a	62 a
5 S39-U2 SOYBEAN TREATED SEED BOUNDARY 6.5 EC 1.35 lb ai/a 1.66 pt/a PRE A TOUCHDOWN TOTAL 4.17 SL 1.14 lb ae/a 35 fl oz/a 4-6"W B N-PAK AMS 100 SL 2.5 % v/v 2.5 % v/v 4-6"W B								10.2 a	56.1 a	64 a
6 S38-W4 SOYBEAN TREATED SEED BOUNDARY 6.5 EC 1.35 lb ai/a 1.66 pt/a PRE A FLEXSTAR GT 3.5 2.82 SL 1.23 lb ae/a 3.5 pt/a 4-6"W B MSO (MSO ULTRA) 100 SL 1 % v/v 1 % v/v 4-6"W B N-PAK AMS 100 SL 2.5 % v/v 2.5 % v/v 4-6"W B QUILT XCEL 2.2 SE 0.18 lb ai/a 10.5 fl oz/a R3 C ENDIGO ZCX 2.71 ZC 0.074 lb ai/a 3.5 fl oz/a R3 C NIS (ACTIVATOR 90) 100 SL 0.25 % v/v 0.25 % v/v R3 C								10.3 a	56.0 a	53 cd
7 S39-U2 SOYBEAN TREATED SEED BOUNDARY 6.5 EC 1.35 lb ai/a 1.66 pt/a PRE A FLEXSTAR GT 3.5 2.82 SL 1.23 lb ae/a 3.5 pt/a 4-6"W B MSO (MSO ULTRA) 100 SL 1 % v/v 1 % v/v 4-6"W B N-PAK AMS 100 SL 2.5 % v/v 2.5 % v/v 4-6"W B QUILT XCEL 2.2 SE 0.18 lb ai/a 10.5 fl oz/a R3 C ENDIGO ZCX 2.71 ZC 0.074 lb ai/a 3.5 fl oz/a R3 C NIS (ACTIVATOR 90) 100 SL 0.25 % v/v 0.25 % v/v R3 C								10.4 a	55.9 a	64 a
8 S45-V8 SOYBEAN TREATED SEED BOUNDARY 6.5 EC 1.35 lb ai/a 1.66 pt/a PRE A FLEXSTAR GT 3.5 2.82 SL 1.23 lb ae/a 3.5 pt/a 4-6"W B MSO (MSO ULTRA) 100 SL 1 % v/v 1 % v/v 4-6"W B N-PAK AMS 100 SL 2.5 % v/v 2.5 % v/v 4-6"W B QUILT XCEL 2.2 SE 0.18 lb ai/a 10.5 fl oz/a R3 C ENDIGO ZCX 2.71 ZC 0.074 lb ai/a 3.5 fl oz/a R3 C NIS (ACTIVATOR 90) 100 SL 0.25 % v/v 0.25 % v/v R3 C								10.2 a	56.1 a	56 bc

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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Pest Code										GLXMA	GLXMA	GLXMA
Crop Code										9-30-14	9-30-14	9-30-14
Rating Date										Moisture	Test wt	Yield
Rating Type												
Rating Unit										Percent	lb/bu	bu/A
Rating Timing												
Trt-Eval Interval												
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Unit	Appl Stage	Code		
9	S41-J6 SOYBEAN										10.5 a	55.8 a
	TREATED SEED											62 a
	BOUNDARY	6.5	EC	1.35	lb ai/a	1.66	pt/a	PRE	A			
	FLEXSTAR GT 3.5	2.82	SL	1.23	lb ae/a	3.5	pt/a	4-6"	W B			
	MSO (MSO ULTRA)	100	SL		1 % v/v		1 % v/v	4-6"	W B			
	N-PAK AMS	100	SL		2.5 % v/v		2.5 % v/v	4-6"	W B			
	QUILT XCEL	2.2	SE	0.18	lb ai/a	10.5	fl oz/a	R3	C			
	ENDIGO ZCX	2.71	ZC	0.074	lb ai/a	3.5	fl oz/a	R3	C			
	NIS (ACTIVATOR 90)	100	SL		0.25 % v/v		0.25 % v/v	R3	C			
10	AG3832 SOYBEAN										10.0 a	56.3 a
	TREATED SEED											57 b
	BOUNDARY	6.5	EC	1.35	lb ai/a	1.66	pt/a	PRE	A			
	FLEXSTAR GT 3.5	2.82	SL	1.23	lb ae/a	3.5	pt/a	4-6"	W B			
	MSO (MSO ULTRA)	100	SL		1 % v/v		1 % v/v	4-6"	W B			
	N-PAK AMS	100	SL		2.5 % v/v		2.5 % v/v	4-6"	W B			
	QUILT XCEL	2.2	SE	0.18	lb ai/a	10.5	fl oz/a	R3	C			
	ENDIGO ZCX	2.71	ZC	0.074	lb ai/a	3.5	fl oz/a	R3	C			
	NIS (ACTIVATOR 90)	100	SL		0.25 % v/v		0.25 % v/v	R3	C			
LSD (P=.05)											0.40	0.28
Standard Deviation											0.23	0.16
CV											2.28	0.29
Replicate F											26.091	78.919
Replicate Prob(F)											0.0001	0.0001
Treatment F											1.175	2.259
Treatment Prob(F)											0.3664	0.0675
												4.106
												0.0340
												34.293
												0.0001

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								NEMATODE	GLXMA 5-23-14 Eggs	GLXMA 6-7-14 Injury	GLXMA 6-21-14 Injury	GLXMA 6-22-14 Plants	GLXMA 7-9-14 Injury	GLXMA 7-15-14 Injury	GLXMA 7-23-14 Injury	GLXMA 7-29-14 Injury
								100cc S	Percent	Percent	000/A	Percent	Percent	Percent	Percent	Percent
								0 DAP	14 DA-A	28 DA-A	30 DAP	14 DA-B	20 DA-B	8 DA-C	28 DA-B	14 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Unit	Appl Stage	Code							
1	S38-W4 SOYBEAN NO SEED TREATMENT BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	6.5 EC 2.82 SL 100 SL 100 SL		1.35 lb ai/a 1.23 lb ae/a 1 % v/v 2.5 % v/v	1.66 pt/a 3.5 pt/a 1 % v/v 2.5 % v/v		PRE A 4-6"W B 4-6"W B 4-6"W B			6640 a	0 a	0 a	99.7 b	10 a	0 b	0 a
2	S38-W4 SOYBEAN TREATED SEED BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	6.5 EC 2.82 SL 100 SL 100 SL		1.35 lb ai/a 1.23 lb ae/a 1 % v/v 2.5 % v/v	1.66 pt/a 3.5 pt/a 1 % v/v 2.5 % v/v		PRE A 4-6"W B 4-6"W B 4-6"W B				0 a	0 a	98.7 b	0 b	0 b	0 a
3	S39-U2 SOYBEAN NO SEED TREATMENT BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	6.5 EC 2.82 SL 100 SL 100 SL		1.35 lb ai/a 1.23 lb ae/a 1 % v/v 2.5 % v/v	1.66 pt/a 3.5 pt/a 1 % v/v 2.5 % v/v		PRE A 4-6"W B 4-6"W B 4-6"W B			3380 a	0 a	0 a	102.6 b	10 a	0 b	0 a
4	S39-U2 SOYBEAN TREATED SEED BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	6.5 EC 2.82 SL 100 SL 100 SL		1.35 lb ai/a 1.23 lb ae/a 1 % v/v 2.5 % v/v	1.66 pt/a 3.5 pt/a 1 % v/v 2.5 % v/v		PRE A 4-6"W B 4-6"W B 4-6"W B				0 a	0 a	114.2 ab	0 b	0 b	0 a
5	S39-U2 SOYBEAN TREATED SEED BOUNDARY TOUCHDOWN TOTAL N-PAK AMS	6.5 EC 4.17 SL 100 SL		1.35 lb ai/a 1.14 lb ae/a 2.5 % v/v	1.66 pt/a 35 fl oz/a 2.5 % v/v		PRE A 4-6"W B 4-6"W B				0 a	0 a	114.2 ab	0 b	0 b	0 a
6	S38-W4 SOYBEAN TREATED SEED BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS QUILT XCEL ENDIGO ZCX NIS (ACTIVATOR 90)	6.5 EC 2.82 SL 100 SL 100 SL 2.2 SE 2.71 ZC 100 SL		1.35 lb ai/a 1.23 lb ae/a 1 % v/v 2.5 % v/v 0.18 lb ai/a 0.074 lb ai/a 0.25 % v/v	1.66 pt/a 3.5 pt/a 1 % v/v 2.5 % v/v 10.5 fl oz/a 3.5 fl oz/a 0.25 % v/v		PRE A 4-6"W B 4-6"W B 4-6"W B R3 C R3 C R3 C			4167 a	0 a	0 a	102.6 b	3 b	0 b	0 a
7	S39-U2 SOYBEAN TREATED SEED BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS QUILT XCEL ENDIGO ZCX NIS (ACTIVATOR 90)	6.5 EC 2.82 SL 100 SL 100 SL 2.2 SE 2.71 ZC 100 SL		1.35 lb ai/a 1.23 lb ae/a 1 % v/v 2.5 % v/v 0.18 lb ai/a 0.074 lb ai/a 0.25 % v/v	1.66 pt/a 3.5 pt/a 1 % v/v 2.5 % v/v 10.5 fl oz/a 3.5 fl oz/a 0.25 % v/v		PRE A 4-6"W B 4-6"W B 4-6"W B R3 C R3 C R3 C			5887 a	0 a	0 a	121.0 a	0 b	0 b	0 a
8	S45-V8 SOYBEAN TREATED SEED BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS QUILT XCEL ENDIGO ZCX NIS (ACTIVATOR 90)	6.5 EC 2.82 SL 100 SL 100 SL 2.2 SE 2.71 ZC 100 SL		1.35 lb ai/a 1.23 lb ae/a 1 % v/v 2.5 % v/v 0.18 lb ai/a 0.074 lb ai/a 0.25 % v/v	1.66 pt/a 3.5 pt/a 1 % v/v 2.5 % v/v 10.5 fl oz/a 3.5 fl oz/a 0.25 % v/v		PRE A 4-6"W B 4-6"W B 4-6"W B R3 C R3 C R3 C				0 a	0 a	120.0 a	0 b	0 b	0 a

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Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit	Appl Stage	Code					
9	S41-J6 SOYBEAN TREATED SEED BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS QUILT XCEL ENDIGO ZCX NIS (ACTIVATOR 90)	6.5 EC 2.82 SL 100 SL 100 SL 2.2 SE 2.71 ZC 100 SL	1.35 lb ai/a 1.23 lb ae/a 1 % v/v 2.5 % v/v 0.18 lb ai/a 0.074 lb ai/a 0.25 % v/v	1.66 pt/a 3.5 pt/a 1 % v/v 2.5 % v/v 10.5 fl oz/a 3.5 fl oz/a 0.25 % v/v	PRE 4-6"W 4-6"W 4-6"W R3 R3 R3	A B B B C C C								
10	AG3832 SOYBEAN TREATED SEED BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS QUILT XCEL ENDIGO ZCX NIS (ACTIVATOR 90)	6.5 EC 2.82 SL 100 SL 100 SL 2.2 SE 2.71 ZC 100 SL	1.35 lb ai/a 1.23 lb ae/a 1 % v/v 2.5 % v/v 0.18 lb ai/a 0.074 lb ai/a 0.25 % v/v	1.66 pt/a 3.5 pt/a 1 % v/v 2.5 % v/v 10.5 fl oz/a 3.5 fl oz/a 0.25 % v/v	PRE 4-6"W 4-6"W 4-6"W R3 R3 R3	A B B B C C C	3873 a	0 a	0 a	68.7 c	12 a	7 a	0 a	0 a
LSD (P=.05)							3104.4	0.0	0.0	16.44	3.6	3.1	0.0	0.0
Standard Deviation							1648.8	0.0	0.0	9.58	2.1	1.8	0.0	0.0
CV							34.43	0.0	0.0	9.07	59.6	273.86	0.0	0.0
Replicate F							5.834	0.000	0.000	0.095	0.574	1.000	0.000	0.000
Replicate Prob(F)							0.0274	1.0000	1.0000	0.9100	0.5730	0.3874	1.0000	1.0000
Treatment F							2.164	0.000	0.000	7.728	17.213	4.000	0.000	0.000
Treatment Prob(F)							0.1639	1.0000	1.0000	0.0001	0.0001	0.0060	1.0000	1.0000

Syngenta Grow More Soybeans Story.

Trial ID: 14-3-W310 Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Pest Code	GLXMA	SEPTGL	SEPTGL	SEPTGL	SEPTGL	FUSAVI	GLXMA
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Date	8-12-14	7-15-14	7-15-14	8-5-14	8-5-14	9-2-14	7-15-14
Rating Type	Injury	Incidence	Severity	Incidence	Severity	Incidence	Insects
Rating Unit	Percent	Perce	Percent	Perce	Percent	Percent	Low-High
Rating Timing	Percent	Perce	Percent	Perce	Percent	Percent	Low-High
Trt-Eval Interval	28 DA-C	0 DA-C	0 DA-C	21 DA-C	21 DA-C		0 DA-C
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Other Other	Growth Unit	Appl Stage	Code
1 S38-W4 SOYBEAN NO SEED TREATMENT BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	6.5 EC 2.82 SL 100 SL 100 SL	1.35 lb ai/a 1.23 lb ae/a 1 % v/v 2.5 % v/v	1.66 pt/a 3.5 pt/a 1 % v/v 2.5 % v/v	PRE 4-6"W 4-6"W 4-6"W	A B B B		0 a
2 S38-W4 SOYBEAN TREATED SEED BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	6.5 EC 2.82 SL 100 SL 100 SL	1.35 lb ai/a 1.23 lb ae/a 1 % v/v 2.5 % v/v	1.66 pt/a 3.5 pt/a 1 % v/v 2.5 % v/v	PRE 4-6"W 4-6"W 4-6"W	A B B B		0 a
3 S39-U2 SOYBEAN NO SEED TREATMENT BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	6.5 EC 2.82 SL 100 SL 100 SL	1.35 lb ai/a 1.23 lb ae/a 1 % v/v 2.5 % v/v	1.66 pt/a 3.5 pt/a 1 % v/v 2.5 % v/v	PRE 4-6"W 4-6"W 4-6"W	A B B B		0 a
4 S39-U2 SOYBEAN TREATED SEED BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	6.5 EC 2.82 SL 100 SL 100 SL	1.35 lb ai/a 1.23 lb ae/a 1 % v/v 2.5 % v/v	1.66 pt/a 3.5 pt/a 1 % v/v 2.5 % v/v	PRE 4-6"W 4-6"W 4-6"W	A B B B		0 a
5 S39-U2 SOYBEAN TREATED SEED BOUNDARY TOUCHDOWN TOTAL N-PAK AMS	6.5 EC 4.17 SL 100 SL	1.35 lb ai/a 1.14 lb ae/a 2.5 % v/v	1.66 pt/a 3.5 fl oz/a 2.5 % v/v	PRE 4-6"W 4-6"W	A B B		0 a
6 S38-W4 SOYBEAN TREATED SEED BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS QUILT XCEL ENDIGO ZCX NIS (ACTIVATOR 90)	6.5 EC 2.82 SL 100 SL 100 SL 2.2 SE 2.71 ZC 100 SL	1.35 lb ai/a 1.23 lb ae/a 1 % v/v 2.5 % v/v 0.18 lb ai/a 0.074 lb ai/a 0.25 % v/v	1.66 pt/a 3.5 pt/a 1 % v/v 2.5 % v/v 10.5 fl oz/a 3.5 fl oz/a 0.25 % v/v	PRE 4-6"W 4-6"W 4-6"W R3 R3 R3	A B B B C C C		0 a
7 S39-U2 SOYBEAN TREATED SEED BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS QUILT XCEL ENDIGO ZCX NIS (ACTIVATOR 90)	6.5 EC 2.82 SL 100 SL 100 SL 2.2 SE 2.71 ZC 100 SL	1.35 lb ai/a 1.23 lb ae/a 1 % v/v 2.5 % v/v 0.18 lb ai/a 0.074 lb ai/a 0.25 % v/v	1.66 pt/a 3.5 pt/a 1 % v/v 2.5 % v/v 10.5 fl oz/a 3.5 fl oz/a 0.25 % v/v	PRE 4-6"W 4-6"W 4-6"W R3 R3 R3	A B B B C C C		0 a
8 S45-V8 SOYBEAN TREATED SEED BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS QUILT XCEL ENDIGO ZCX NIS (ACTIVATOR 90)	6.5 EC 2.82 SL 100 SL 100 SL 2.2 SE 2.71 ZC 100 SL	1.35 lb ai/a 1.23 lb ae/a 1 % v/v 2.5 % v/v 0.18 lb ai/a 0.074 lb ai/a 0.25 % v/v	1.66 pt/a 3.5 pt/a 1 % v/v 2.5 % v/v 10.5 fl oz/a 3.5 fl oz/a 0.25 % v/v	PRE 4-6"W 4-6"W 4-6"W R3 R3 R3	A B B B C C C		0 a

Syngenta Grow More Soybeans Story.

Trial ID: 14-3-W310 Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Pest Code Crop Code Rating Date Rating Type								GLXMA 8-12-14 Injury	SEPTGL GLXMA 7-15-14 Incidence	SEPTGL GLXMA 7-15-14 Severity	SEPTGL GLXMA 8-5-14 Incidence	SEPTGL GLXMA 8-5-14 Severity	FUSAVI GLXMA 9-2-14 Incidence	GLXMA 7-15-14 Insects
Rating Unit Rating Timing Trt-Eval Interval								Percent	Percent	Percent	Percent	Percent	Percent	Low-High
Trt Treatment No. Name								28 DA-C	0 DA-C	0 DA-C	21 DA-C	21 DA-C		0 DA-C
9 S41-J6 SOYBEAN TREATED SEED								0 a	0 a	0 a	0 a	0 a	5 d	LOW
BOUNDARY														
FLEXSTAR GT 3.5														
MSO (MSO ULTRA)														
N-PAK AMS														
QUILT XCEL														
ENDIGO ZCX														
NIS (ACTIVATOR 90)														
10 AG3832 SOYBEAN TREATED SEED								0 a	0 a	0 a	0 a	0 a	15 cd	LOW
BOUNDARY														
FLEXSTAR GT 3.5														
MSO (MSO ULTRA)														
N-PAK AMS														
QUILT XCEL														
ENDIGO ZCX														
NIS (ACTIVATOR 90)														
LSD (P=.05)								0.0	0.0	0.0	0.0	0.0	18.0	
Standard Deviation								0.0	0.0	0.0	0.0	0.0	10.5	
CV								0.0	0.0	0.0	0.0	0.0	46.59	
Replicate F								0.000	0.000	0.000	0.000	0.000	0.705	
Replicate Prob(F)								1.0000	1.0000	1.0000	1.0000	1.0000	0.5072	
Treatment F								0.000	0.000	0.000	0.000	0.000	8.395	
Treatment Prob(F)								1.0000	1.0000	1.0000	1.0000	1.0000	0.0001	

Syngenta Grow More Soybeans Story.

Trial ID: 14-3-W310 Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	PANDI	PANDI	IPOHE	IPOHE	AMBTR	AMBTR	XANST	XANST
							6-25-14 Control Percent	7-15-14 Control Percent	6-25-14 Control Percent	7-15-14 Control Percent	6-25-14 Control Percent	7-15-14 Control Percent	6-25-14 Control Percent	7-15-14 Control Percent
							32 DA-A 0 DA-B	20 DA-B 0 DA-C	32 DA-A 0 DA-B	20 DA-B 0 DA-C	32 DA-A 0 DA-B	20 DA-B 0 DA-C	32 DA-A 0 DA-B	20 DA-B 0 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Grow Stage	h Stage	Appl Code					
1	S38-W4 SOYBEAN NO SEED TREATMENT BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	6.5 EC 2.82 SL 100 SL 100 SL		1.35 lb ai/a 1.23 lb ae/a 1 % v/v 2.5 % v/v	1.66 pt/a 3.5 pt/a 1 % v/v 2.5 % v/v		PRE 4-6"W 4-6"W 4-6"W	A B B B		99 a	99 a	98 a	99 a	99 a
2	S38-W4 SOYBEAN TREATED SEED BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	6.5 EC 2.82 SL 100 SL 100 SL		1.35 lb ai/a 1.23 lb ae/a 1 % v/v 2.5 % v/v	1.66 pt/a 3.5 pt/a 1 % v/v 2.5 % v/v		PRE 4-6"W 4-6"W 4-6"W	A B B B		99 a	99 a	99 a	99 a	99 a
3	S39-U2 SOYBEAN NO SEED TREATMENT BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	6.5 EC 2.82 SL 100 SL 100 SL		1.35 lb ai/a 1.23 lb ae/a 1 % v/v 2.5 % v/v	1.66 pt/a 3.5 pt/a 1 % v/v 2.5 % v/v		PRE 4-6"W 4-6"W 4-6"W	A B B B		99 a	99 a	97 a	99 a	99 a
4	S39-U2 SOYBEAN TREATED SEED BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	6.5 EC 2.82 SL 100 SL 100 SL		1.35 lb ai/a 1.23 lb ae/a 1 % v/v 2.5 % v/v	1.66 pt/a 3.5 pt/a 1 % v/v 2.5 % v/v		PRE 4-6"W 4-6"W 4-6"W	A B B B		99 a	99 a	98 a	99 a	99 a
5	S39-U2 SOYBEAN TREATED SEED BOUNDARY TOUCHDOWN TOTAL N-PAK AMS	6.5 EC 4.17 SL 100 SL		1.35 lb ai/a 1.14 lb ae/a 2.5 % v/v	1.66 pt/a 35 fl oz/a 2.5 % v/v		PRE 4-6"W 4-6"W	A B B		99 a	99 a	97 a	99 a	99 a
6	S38-W4 SOYBEAN TREATED SEED BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS QUILT XCEL ENDIGO ZCX NIS (ACTIVATOR 90)	6.5 EC 2.82 SL 100 SL 100 SL 2.2 SE 2.71 ZC 100 SL		1.35 lb ai/a 1.23 lb ae/a 1 % v/v 2.5 % v/v 0.18 lb ai/a 0.074 lb ai/a 0.25 % v/v	1.66 pt/a 3.5 pt/a 1 % v/v 2.5 % v/v 10.5 fl oz/a 3.5 fl oz/a 0.25 % v/v		PRE 4-6"W 4-6"W 4-6"W R3 R3 R3	A B B B C C C		99 a	99 a	98 a	99 a	99 a
7	S39-U2 SOYBEAN TREATED SEED BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS QUILT XCEL ENDIGO ZCX NIS (ACTIVATOR 90)	6.5 EC 2.82 SL 100 SL 100 SL 2.2 SE 2.71 ZC 100 SL		1.35 lb ai/a 1.23 lb ae/a 1 % v/v 2.5 % v/v 0.18 lb ai/a 0.074 lb ai/a 0.25 % v/v	1.66 pt/a 3.5 pt/a 1 % v/v 2.5 % v/v 10.5 fl oz/a 3.5 fl oz/a 0.25 % v/v		PRE 4-6"W 4-6"W 4-6"W R3 R3 R3	A B B B C C C		99 a	99 a	98 a	99 a	99 a
8	S45-V8 SOYBEAN TREATED SEED BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS QUILT XCEL ENDIGO ZCX NIS (ACTIVATOR 90)	6.5 EC 2.82 SL 100 SL 100 SL 2.2 SE 2.71 ZC 100 SL		1.35 lb ai/a 1.23 lb ae/a 1 % v/v 2.5 % v/v 0.18 lb ai/a 0.074 lb ai/a 0.25 % v/v	1.66 pt/a 3.5 pt/a 1 % v/v 2.5 % v/v 10.5 fl oz/a 3.5 fl oz/a 0.25 % v/v		PRE 4-6"W 4-6"W 4-6"W R3 R3 R3	A B B B C C C		99 a	99 a	98 a	99 a	99 a

Syngenta Grow More Soybeans Story.

Trial ID: 14-3-W310 Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	PANDI	PANDI	IPOHE	IPOHE	AMBTR	AMBTR	XANST	XANST
							6-25-14 Control Percent	7-15-14 Control Percent	6-25-14 Control Percent	7-15-14 Control Percent	6-25-14 Control Percent	7-15-14 Control Percent	6-25-14 Control Percent	7-15-14 Control Percent
							32 DA-A 0 DA-B	20 DA-B 0 DA-C	32 DA-A 0 DA-B	20 DA-B 0 DA-C	32 DA-A 0 DA-B	20 DA-B 0 DA-C	32 DA-A 0 DA-B	20 DA-B 0 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate	Other Rate	Growth Unit	Stage	Appl Code			
9	S41-J6 SOYBEAN TREATED SEED BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS QUILT XCEL ENDIGO ZCX NIS (ACTIVATOR 90)	6.5 2.82 100 100 2.2 2.71 100	EC SL SL SL SE ZC SL	1.35 lb ai/a 1.23 lb ae/a 1 % v/v 2.5 % v/v 0.18 lb ai/a 0.074 lb ai/a 0.25 % v/v	1.66 pt/a 3.5 pt/a 1 % v/v 2.5 % v/v 10.5 fl oz/a 3.5 fl oz/a 0.25 % v/v				PRE 4-6" 4-6" 4-6" R3 R3 R3	A B B B C C C				
10	AG3832 SOYBEAN TREATED SEED BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS QUILT XCEL ENDIGO ZCX NIS (ACTIVATOR 90)	6.5 2.82 100 100 2.2 2.71 100	EC SL SL SL SE ZC SL	1.35 lb ai/a 1.23 lb ae/a 1 % v/v 2.5 % v/v 0.18 lb ai/a 0.074 lb ai/a 0.25 % v/v	1.66 pt/a 3.5 pt/a 1 % v/v 2.5 % v/v 10.5 fl oz/a 3.5 fl oz/a 0.25 % v/v				PRE 4-6" 4-6" 4-6" R3 R3 R3	A B B B C C C				
LSD (P=.05)							0.6	0.0	2.1	0.0	0.3	0.0	0.0	0.0
Standard Deviation							0.3	0.0	1.2	0.0	0.2	0.0	0.0	0.0
CV							0.35	0.0	1.22	0.0	0.18	0.0	0.0	0.0
Replicate F							1.909	0.000	1.465	0.000	1.000	0.000	0.000	0.000
Replicate Prob(F)							0.1770	1.0000	0.2573	1.0000	0.3874	1.0000	1.0000	1.0000
Treatment F							0.727	0.000	0.465	0.000	1.000	0.000	0.000	0.000
Treatment Prob(F)							0.6793	1.0000	0.8793	1.0000	0.4742	1.0000	1.0000	1.0000

Syngenta Grow More Soybeans Story.

Trial ID: 14-3-W310 Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Trial Comments

1. Protocol: Syngenta (Soybean Story).
2. Ratings: CI 14 and 28 DA-A, CI 14 and 28 DA-B, and CI 14 and 28 DA-C.
WC 0 DA-B, and 0 DA-C.
Stand counts 30 DAP, 1, 3 ft / row; count same planter unit in each plot.
DI/DS 0 and 21 DA-C.
Insects 0 DA-C as low, medium, high.
Nematodes; sample 8 cores from each plot from treatments 1, 3, 6, 7, and 10 at planting, keep samples refrigerated and send to Jason Bond for analysis.
Soil test after planting (1 sample for entire area) before herbicides.
3. Yield.
4. Soybean variety are per treatment, see treatment list.
5. Crop injury at 14 DA-B was stunting.
6. GLXMA, Plants, 000/A = Thousands of soybean plants per acre.
DAP = Days after planting.
Eggs 100cc S = Eggs per 100 cc soil.
7. SEPTGL = Septoria glycines, Brown spot of soybean.
SEPTGL, Incidence, Percent = Percentage of plants that were infected.
SEPTGL, Severity, Percent = Average degree of infection for infected plants.
8. FUSAVI = Fusarium virguliforme, sudden death syndrome of soybean (SDS).
FUSAVI, Incidence, Percent = Percentage of the plot that was infected.
9. Following the PRE application the first significant rainfall event was 0.57 inch beginning 1 day later.
Following the 4-6"W application rainfall was 0.12 inch within the next 7 days and 0.91 inch within 14 days.
Following the R3 application the first significant rainfall event was 20 days later.
10. Harvested 9-30-14, (2) 30 inch rows by 197 ft.