

Syngenta Programs for RR2 Xtend Soybeans.

Trial ID: 16-2B-MW50 Location: Belleville Res. Center Trial Year: 2016
Investigator: Karla L. Gage, Ph.D.

Trial Status: F one-year/final Initiation Date: 6-1-16 Completion Date: 10-18-16	Trial Location
City: Belleville Country: USA State/Prov.: Illinois IL Postal Code: 62221	

Objectives: Demonstrate Syngenta weed control programs for conventional-till soybeans in a RR2X soybean variety.

Contacts	
Study Director: Karla Gage, Ph.D. Organization: Southern Illinois University Carbondale Address: 1205 Lincoln Drive MC 4415 Phone No.: 618-453-7679 City+State/Prov: Carbondale, IL Postal Code: 62901 E-mail: kgage@siu.edu Country: USA	Title: Assistant Professor of Weed Science

Crop Description	
Crop 1: GLXMA Glycine max Soybean Variety: AG42X6 BBCH Scale: BSOY Description: RR2X	
Planting Rate, Unit: 140000 S/A Depth, Unit: 1 IN Row Spacing, Unit: 30 IN	Planting Date: 6-1-16 Planting Method: SEEDED

Pest Description	
Pest 1 Type: W Code: AMBTR Ambrosia trifida L. Common Name: ragweed, giant	
Pest 2 Type: W Code: ABUTH Abutilon theophrasti Medik. Common Name: velvetleaf	
Pest 3 Type: W Code: AMATA Amaranthus rudis Sauer Common Name: waterhemp, common	
Pest 4 Type: W Code: IPOHE Ipomoea hederacea (L.) Jacq. Common Name: morningglory, ivyleaf	

Site and Design							
Treated Plot Width: 7.5 FT Total Plot Width: 10 FT Treated Plot Length: 28 FT Total Plot Length: 28 FT	Site Type: FIELD Experimental Unit: 1 PLOT Tillage Type: REDTIL reduced-till Study Design: RACOB� Randomized Complete Block (RCB)						
Replications: 3 Untreated Arrangement: INCLUDED single control randomized in each block							
<table border="1"> <thead> <tr> <th>No.</th> <th>Previous Crop</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>ZEAMD</td> <td>2015</td> </tr> </tbody> </table>	No.	Previous Crop	Year	1.	ZEAMD	2015	
No.	Previous Crop	Year					
1.	ZEAMD	2015					

Maintenance					
<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	
No.	Maintenance Product Name				
1.	N 0 LB/A, P2O5 50 LB/A, K2O 150 LB/A				

Soil Description										
Description Name: 02B_2013 % OM: 2.4 Texture: SIL silt loam pH: 6.6 Soil Name: Pierron CEC: 8										
Additional Measured Elements										
<table border="1"> <thead> <tr> <th>Element</th> <th>Quantity</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>P1</td> <td>75</td> <td>lb/A</td> </tr> <tr> <td>K</td> <td>333</td> <td>lb/A</td> </tr> </tbody> </table>	Element	Quantity	Unit	P1	75	lb/A	K	333	lb/A	
Element	Quantity	Unit								
P1	75	lb/A								
K	333	lb/A								

Moisture and Weather Conditions	
Overall Moisture Conditions: NORMAL Closest Weather Station: ICN - Belleville IL	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.	4-1-16					7	DAY	32	75	F
2.	4-6-16	0.49	IN	RAIN	rain	1	DAY			
3.	4-8-16					7	DAY	28	71	F
4.	4-10-16	0.97	IN	RAIN	rain	2	DAY			
5.	4-15-16					7	DAY	48	81	F
6.	4-20-16	0.45	IN	RAIN	rain	3	DAY			
7.	4-22-16					7	DAY	47	85	F
8.	4-26-16	1.74	IN	RAIN	rain	2	DAY			
9.	4-29-16					7	DAY	46	75	F
10.	4-29-16	1.94	IN	RAIN	rain	2	DAY			
11.	5-4-16	0.02	IN	RAIN	rain	1	DAY			
12.	5-6-16					7	DAY	44	87	F
13.	5-7-16	0.07	IN	RAIN	rain	1	DAY			
14.	5-9-16	2.12	IN	RAIN	rain	5	DAY			
15.	5-13-16					7	DAY	41	76	F
16.	5-16-16	1.06	IN	RAIN	rain	2	DAY			
17.	5-20-16					7	DAY	51	83	F
18.	5-20-16	0.06	IN	RAIN	rain	1	DAY			
19.	5-25-16	0.68	IN	RAIN	rain	3	DAY			
20.	5-27-16					7	DAY	62	88	F
21.	5-31-16	0.03	IN	RAIN	rain	2	DAY			
22.	6-3-16					7	DAY	55	89	F
23.	6-3-16	0.01	IN	RAIN	rain	1	DAY			
24.	6-4-16	0.72	IN	RAIN	rain	1	DAY			
25.	6-10-16					7	DAY	65	96	F
26.	6-13-16	0.03	IN	RAIN	rain	1	DAY			
27.	6-17-16					7	DAY	67	97	F
28.	6-21-16	0.01	IN	RAIN	rain	1	DAY			
29.	6-24-16					7	DAY	57	95	F
30.	6-25-16	0.02	IN	RAIN	rain	1	DAY			
31.	6-30-16	0.03	IN	RAIN	rain	1	DAY			
32.	7-1-16					7	DAY	60	91	F
33.	7-1-16	2.26	IN	RAIN	rain	4	DAY			
34.	7-6-16	0.32	IN	RAIN	rain	3	DAY			
35.	7-8-16					7	DAY	67	93	F
36.	7-13-16	0.49	IN	RAIN	rain	2	DAY			
37.	7-15-16					7	DAY	68	93	F
38.	7-17-16	0.02	IN	RAIN	rain	1	DAY			
39.	7-19-16	1.47	IN	RAIN	rain	2	DAY			
40.	7-22-16					7	DAY	72	94	F
41.	7-25-16	0.1	IN	RAIN	rain	1	DAY			
42.	7-29-16					7	DAY	69	91	F
43.	7-31-16	0.52	IN	RAIN	rain	3	DAY			
44.	8-3-16	0.75	IN	RAIN	rain	1	DAY			
45.	8-5-16					7	DAY	66	93	F
46.	8-5-16	0.06	IN	RAIN	rain	1	DAY			
47.	8-12-16					7	DAY	68	91	F
48.	8-12-16	4.85	IN	RAIN	rain	5	DAY			
49.	8-19-16					7	DAY	57	93	F
50.	8-23-16	0.02	IN	RAIN	rain	1	DAY			
51.	8-30-16	0.03	IN	RAIN	rain	1	DAY			

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Comment:

Rainfall was recorded on station and provided by Illinois Climate Network.
 Air temperature was recorded at Scott Air Force Base 2.5 miles north and provided by NOAA's National Centers for Environmental Information.
 Air temperatures given are summarized as weekly high and low, detailed weather data is available on request.

Application Description

	A	B
Application Date:	6-1-16	6-24-16
Appl. Start Time:	18:15	7:45
Appl. Stop Time:	18:45	8:10
Application Method:	Spray	Spray
Application Timing:	PRE	4-6"W
Application Placement:	BROSOI	BROFOL
Applied By:	KNW	RLS
Air Temperature, Unit:	72 F	78 F
% Relative Humidity:	100	71
Wind Velocity, Unit:	2 MPH	2 MPH
Wind Direction:	S	W
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	73 F	80 F
Soil Moisture:	NORMAL	BELNOR
% Cloud Cover:	0	10
Next Moisture Occurred On:	6-4-16	6-30-16
Time to Next Moisture, Unit:	3 DAY	6 DAY

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA	GLXMA
Stage Scale Used:	DESC	DESC
Stage Majority, Percent:	NA	V3
Stage Minimum, Percent:		V2
Stage Maximum, Percent:		V3
Height, Unit:		4 IN
Height Minimum, Maximum:		3 4

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Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	NA	6
Stage Minimum, Percent:		4
Stage Maximum, Percent:		10
Height, Unit:		3 IN
Height Minimum, Maximum:		1 7
Density, Unit:		0.5 FT2
Pest 2 Code, Type, Scale:	ABUTH W	ABUTH W
Stage Majority, Percent:	NA	6
Stage Minimum, Percent:		4
Stage Maximum, Percent:		8
Height, Unit:		2 IN
Height Minimum, Maximum:		1 4
Density, Unit:		0.05 FT2
Pest 3 Code, Type, Scale:	AMATA W	AMATA W
Stage Majority, Percent:	NA	6
Stage Minimum, Percent:		4
Stage Maximum, Percent:		8
Height, Unit:		2 IN
Height Minimum, Maximum:		0.5 3
Density, Unit:		0.05 FT2
Pest 4 Code, Type, Scale:	IPOHE W	IPOHE W
Stage Majority, Percent:	NA	6
Stage Minimum, Percent:		2
Stage Maximum, Percent:		10+
Height, Unit:		1 IN
Height Minimum, Maximum:		0.5 2
Density, Unit:		0.05 FT2

Application Equipment

	A	B
Appl. Equipment:	CO2 sprayer	CO2 sprayer
Equipment Type:	BACSPR	BACSPR
Operation Pressure, Unit:	30 PSI	30 PSI
Nozzle Type:	TTI	TTI
Nozzle Size:	11002	11002
Boom Length, Unit:	7.5 FT	7.5 FT
Spray Volume, Unit:	15 GPA	15 GPA

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Pest Code							GLXMA	GLXMA	GLXMA	
Crop Code							10-18-16	10-18-16	10-18-16	
Rating Date							Moisture	Test wt.	Yield	
Rating Type							Percent	lb/bu	bu/A	
Rating Unit										
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
1	NONTREATED									
								14.0 a	55.4 a	9 b
2	DICAMBA DGA	4	SL	0.5 lb	ae/a	1 pt/a		PRE	A	
	BOUNDARY	6.5	EC	1.63 lb	ai/a	2 pt/a		PRE	A	
	FLEXSTAR GT	3.29	SL	1.65 lb	ae/a	4 pt/a		4-6"W	B	
	MSO	100	SL	1 %	v/v	1 %	v/v	4-6"W	B	
	AMS - LIQUID	100	SL	2.5 %	v/v	2.5 %	v/v	4-6"W	B	
								13.5 a	56.1 a	51 a
3	DICAMBA DGA	4	SL	0.5 lb	ae/a	1 pt/a		PRE	A	
	BOUNDARY	6.5	EC	1.63 lb	ai/a	2 pt/a		PRE	A	
	FLEXSTAR GT	3.29	SL	1.65 lb	ae/a	4 pt/a		4-6"W	B	
	DUAL MAGNUM	7.62	EC	0.95 lb	ai/a	1 pt/a		4-6"W	B	
	MSO	100	SL	1 %	v/v	1 %	v/v	4-6"W	B	
	AMS - LIQUID	100	SL	2.5 %	v/v	2.5 %	v/v	4-6"W	B	
								13.6 a	56.0 a	47 a
4	DICAMBA DGA	4	SL	0.5 lb	ae/a	1 pt/a		PRE	A	
	DUAL MAGNUM	7.62	EC	0.95 lb	ai/a	1 pt/a		PRE	A	
	FLEXSTAR GT	3.29	SL	1.65 lb	ae/a	4 pt/a		4-6"W	B	
	MSO	100	SL	1 %	v/v	1 %	v/v	4-6"W	B	
	AMS - LIQUID	100	SL	2.5 %	v/v	2.5 %	v/v	4-6"W	B	
								13.5 a	56.1 a	54 a
5	DICAMBA DGA	4	SL	0.5 lb	ae/a	1 pt/a		PRE	A	
	BROADAXE XC	7	SC	1.37 lb	ai/a	25 fl oz/a		PRE	A	
	FLEXSTAR GT	3.29	SL	1.65 lb	ae/a	4 pt/a		4-6"W	B	
	MSO	100	SL	1 %	v/v	1 %	v/v	4-6"W	B	
	AMS - LIQUID	100	SL	2.5 %	v/v	2.5 %	v/v	4-6"W	B	
								13.7 a	56.0 a	52 a
6	DICAMBA DGA	4	SL	0.5 lb	ae/a	1 pt/a		PRE	A	
	BOUNDARY	6.5	EC	1.63 lb	ai/a	2 pt/a		PRE	A	
	FLEXSTAR GT	3.29	SL	1.65 lb	ae/a	4 pt/a		4-6"W	B	
	DICAMBA DGA	4	SL	0.5 lb	ae/a	1 pt/a		4-6"W	B	
	MSO	100	SL	1 %	v/v	1 %	v/v	4-6"W	B	
	AG 13063	100	SL	1 %	v/v	1 %	v/v	4-6"W	B	
								13.5 a	56.1 a	50 a
7	DICAMBA DGA	4	SL	0.5 lb	ae/a	1 pt/a		PRE	A	
	VALOR XLT	40.3	WG	0.0756 lb	ai/a	3.0 oz/a		PRE	A	
	FLEXSTAR GT	3.29	SL	1.65 lb	ae/a	4 pt/a		4-6"W	B	
	MSO	100	SL	1 %	v/v	1 %	v/v	4-6"W	B	
	AMS - LIQUID	100	SL	2.5 %	v/v	2.5 %	v/v	4-6"W	B	
								13.4 a	56.2 a	50 a
8	DICAMBA DGA	4	SL	0.5 lb	ae/a	1 pt/a		PRE	A	
	DUAL MAGNUM	7.62	EC	0.95 lb	ai/a	1 pt/a		PRE	A	
	DICAMBA DGA	4	SL	0.5 lb	ae/a	1 pt/a		4-6"W	B	
	DUAL MAGNUM	7.62	EC	0.95 lb	ai/a	1 pt/a		4-6"W	B	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb	ae/a	32 fl oz/a		4-6"W	B	
	AG 13063	100	SL	1 %	v/v	1 %	v/v	4-6"W	B	
								13.4 a	56.2 a	57 a

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Average=6,7,24

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Pest Code							GLXMA	GLXMA	GLXMA		
Crop Code							10-18-16	10-18-16	10-18-16		
Rating Date							Moisture	Test wt.	Yield		
Rating Type							Percent	lb/bu	bu/A		
Rating Unit											
Rating Timing											
Trt-Eval Interval											
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
9	BOUNDARY	6.5	EC	1.63 lb ai/a	2 pt/a		PRE	A	13.7 a	56.0 a	52 a
	FLEXSTAR GT	3.29	SL	1.65 lb ae/a	4 pt/a		4-6"W	B			
	MSO	100	SL	1 % v/v	1 % v/v		4-6"W	B			
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B			
LSD P=.05							0.87	0.49	16.0		
Standard Deviation							0.50	0.28	9.3		
CV							3.68	0.5	19.74		
Replicate F							0.579	0.374	1.935		
Replicate Prob(F)							0.5724	0.6940	0.1767		
Treatment F							0.467	2.183	7.371		
Treatment Prob(F)							0.8611	0.0916	0.0004		

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Pest Code						GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Code						6-15-16	6-22-16	7-1-16	7-8-16	7-22-16
Rating Date						Injury	Injury	Injury	Injury	Injury
Rating Type						Percent	Percent	Percent	Percent	Percent
Rating Unit						14 DAA	-2 DA-B	30 DA-A	14 DA-B	28 DA-B
Rating Timing						14 DA-A	21 DA-A	7 DA-B	14 DA-B	28 DA-B
Trt-Eval Interval										
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Unit	Appl Stage	Code
1	NONTREATED									0
2	DICAMBA DGA	4	SL	0.5 lb	ae/a	1 pt/a		PRE	A	0 c
	BOUNDARY	6.5	EC	1.63 lb	ai/a	2 pt/a		PRE	A	0 c
	FLEXSTAR GT	3.29	SL	1.65 lb	ae/a	4 pt/a		4-6"	W B	20 ab
	MSO	100	SL	1 %	v/v	1 % v/v		4-6"	W B	2 a
	AMS - LIQUID	100	SL	2.5 %	v/v	2.5 % v/v		4-6"	W B	0 c
3	DICAMBA DGA	4	SL	0.5 lb	ae/a	1 pt/a		PRE	A	0 c
	BOUNDARY	6.5	EC	1.63 lb	ai/a	2 pt/a		PRE	A	0 b
	FLEXSTAR GT	3.29	SL	1.65 lb	ae/a	4 pt/a		4-6"	W B	20 ab
	DUAL MAGNUM	7.62	EC	0.95 lb	ai/a	1 pt/a		4-6"	W B	3 a
	MSO	100	SL	1 %	v/v	1 % v/v		4-6"	W B	0 c
	AMS - LIQUID	100	SL	2.5 %	v/v	2.5 % v/v		4-6"	W B	
4	DICAMBA DGA	4	SL	0.5 lb	ae/a	1 pt/a		PRE	A	0 c
	DUAL MAGNUM	7.62	EC	0.95 lb	ai/a	1 pt/a		PRE	A	0 b
	FLEXSTAR GT	3.29	SL	1.65 lb	ae/a	4 pt/a		4-6"	W B	17 b
	MSO	100	SL	1 %	v/v	1 % v/v		4-6"	W B	3 a
	AMS - LIQUID	100	SL	2.5 %	v/v	2.5 % v/v		4-6"	W B	0 c
5	DICAMBA DGA	4	SL	0.5 lb	ae/a	1 pt/a		PRE	A	18 a
	BROADAXE XC	7	SC	1.37 lb	ai/a	25 fl oz/a		PRE	A	12 a
	FLEXSTAR GT	3.29	SL	1.65 lb	ae/a	4 pt/a		4-6"	W B	23 a
	MSO	100	SL	1 %	v/v	1 % v/v		4-6"	W B	6 a
	AMS - LIQUID	100	SL	2.5 %	v/v	2.5 % v/v		4-6"	W B	13 a
6	DICAMBA DGA	4	SL	0.5 lb	ae/a	1 pt/a		PRE	A	2 bc
	BOUNDARY	6.5	EC	1.63 lb	ai/a	2 pt/a		PRE	A	0 b
	FLEXSTAR GT	3.29	SL	1.65 lb	ae/a	4 pt/a		4-6"	W B	20 ab
	DICAMBA DGA	4	SL	0.5 lb	ae/a	1 pt/a		4-6"	W B	2 a
	MSO	100	SL	1 %	v/v	1 % v/v		4-6"	W B	0 c
	AG 13063	100	SL	1 %	v/v	1 % v/v		4-6"	W B	
7	DICAMBA DGA	4	SL	0.5 lb	ae/a	1 pt/a		PRE	A	5 b
	VALOR XLT	40.3	WG	0.0756 lb	ai/a	3.0 oz/a		PRE	A	0 b
	FLEXSTAR GT	3.29	SL	1.65 lb	ae/a	4 pt/a		4-6"	W B	20 ab
	MSO	100	SL	1 %	v/v	1 % v/v		4-6"	W B	1 a
	AMS - LIQUID	100	SL	2.5 %	v/v	2.5 % v/v		4-6"	W B	7 b
8	DICAMBA DGA	4	SL	0.5 lb	ae/a	1 pt/a		PRE	A	0 c
	DUAL MAGNUM	7.62	EC	0.95 lb	ai/a	1 pt/a		PRE	A	0 b
	DICAMBA DGA	4	SL	0.5 lb	ae/a	1 pt/a		4-6"	W B	7 c
	DUAL MAGNUM	7.62	EC	0.95 lb	ai/a	1 pt/a		4-6"	W B	1 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb	ae/a	32 fl oz/a		4-6"	W B	2 bc
	AG 13063	100	SL	1 %	v/v	1 % v/v		4-6"	W B	

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 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Average=6,7,24

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Rating Date						Injury	Injury	Injury	Injury	Injury				
Rating Type						Percent	Percent	Percent	Percent	Percent				
Rating Unit						14 DAA	-2 DA-B	30 DA-A						
Rating Timing						14 DA-A	21 DA-A	7 DA-B	14 DA-B	28 DA-B				
Trt-Eval Interval														
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate	Growth Unit	Stage	Appl Code					
9	BOUNDARY	6.5	EC	1.63 lb ai/a	2 pt/a		PRE	A		0 c	0 b	15 b	4 a	3 bc
	FLEXSTAR GT	3.29	SL	1.65 lb ae/a	4 pt/a		4-6"W	B						
	MSO	100	SL	1 % v/v	1 % v/v		4-6"W	B						
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B						
LSD P=.05						4.1	1.8	5.6	4.0	5.4				
Standard Deviation						2.3	1.0	3.2	2.3	3.1				
CV						75.09	69.99	17.96	80.91	99.52				
Replicate F						0.568	1.000	0.412	0.864	4.200				
Replicate Prob(F)						0.5794	0.3927	0.6702	0.4427	0.0373				
Treatment F						22.243	49.000	7.750	1.595	7.000				
Treatment Prob(F)						0.0001	0.0001	0.0006	0.2165	0.0011				

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Pest Code							AMBTR	AMBTR	AMBTR	AMBTR	AMBTR
Crop Code							6-15-16	6-22-16	7-8-16	7-22-16	8-5-16
Rating Date							Control	Control	Control	Control	Control
Rating Type							Percent	Percent	Percent	Percent	Percent
Rating Unit							14 DAA	-2 DA-B	14 DA-B	28 DA-B	42 DA-B
Rating Timing							14 DA-A	21 DA-A	14 DA-B	28 DA-B	42 DA-B
Trt-Eval Interval											
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Unit	Appl Stage	Code Code	
1	NONTREATED										0
2	DICAMBA DGA	4	SL	0.5	lb ae/a	1	pt/a	PRE	A		94 a
	BOUNDARY	6.5	EC	1.63	lb ai/a	2	pt/a	PRE	A		88 a
	FLEXSTAR GT	3.29	SL	1.65	lb ae/a	4	pt/a	4-6"	W B		99 a
	MSO	100	SL	1	% v/v	1	% v/v	4-6"	W B		99 a
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	4-6"	W B		99 a
3	DICAMBA DGA	4	SL	0.5	lb ae/a	1	pt/a	PRE	A		92 ab
	BOUNDARY	6.5	EC	1.63	lb ai/a	2	pt/a	PRE	A		88 a
	FLEXSTAR GT	3.29	SL	1.65	lb ae/a	4	pt/a	4-6"	W B		99 a
	DUAL MAGNUM	7.62	EC	0.95	lb ai/a	1	pt/a	4-6"	W B		99 a
	MSO	100	SL	1	% v/v	1	% v/v	4-6"	W B		99 a
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	4-6"	W B		99 a
4	DICAMBA DGA	4	SL	0.5	lb ae/a	1	pt/a	PRE	A		93 ab
	DUAL MAGNUM	7.62	EC	0.95	lb ai/a	1	pt/a	PRE	A		85 ab
	FLEXSTAR GT	3.29	SL	1.65	lb ae/a	4	pt/a	4-6"	W B		99 a
	MSO	100	SL	1	% v/v	1	% v/v	4-6"	W B		99 a
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	4-6"	W B		99 a
5	DICAMBA DGA	4	SL	0.5	lb ae/a	1	pt/a	PRE	A		88 b
	BROADAXE XC	7	SC	1.37	lb ai/a	25	fl oz/a	PRE	A		85 ab
	FLEXSTAR GT	3.29	SL	1.65	lb ae/a	4	pt/a	4-6"	W B		99 a
	MSO	100	SL	1	% v/v	1	% v/v	4-6"	W B		98 a
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	4-6"	W B		99 a
6	DICAMBA DGA	4	SL	0.5	lb ae/a	1	pt/a	PRE	A		82 c
	BOUNDARY	6.5	EC	1.63	lb ai/a	2	pt/a	PRE	A		77 bc
	FLEXSTAR GT	3.29	SL	1.65	lb ae/a	4	pt/a	4-6"	W B		99 a
	DICAMBA DGA	4	SL	0.5	lb ae/a	1	pt/a	4-6"	W B		99 a
	MSO	100	SL	1	% v/v	1	% v/v	4-6"	W B		99 a
	AG 13063	100	SL	1	% v/v	1	% v/v	4-6"	W B		99 a
7	DICAMBA DGA	4	SL	0.5	lb ae/a	1	pt/a	PRE	A		94 a
	VALOR XLT	40.3	WG	0.0756	lb ai/a	3.0	oz/a	PRE	A		90 a
	FLEXSTAR GT	3.29	SL	1.65	lb ae/a	4	pt/a	4-6"	W B		99 a
	MSO	100	SL	1	% v/v	1	% v/v	4-6"	W B		99 a
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	4-6"	W B		99 a
8	DICAMBA DGA	4	SL	0.5	lb ae/a	1	pt/a	PRE	A		82 c
	DUAL MAGNUM	7.62	EC	0.95	lb ai/a	1	pt/a	PRE	A		73 c
	DICAMBA DGA	4	SL	0.5	lb ae/a	1	pt/a	4-6"	W B		99 a
	DUAL MAGNUM	7.62	EC	0.95	lb ai/a	1	pt/a	4-6"	W B		94 b
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"	W B		96 b
	AG 13063	100	SL	1	% v/v	1	% v/v	4-6"	W B		96 b

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Average=6,7,24

Syngenta Programs for RR2 Xtend Soybeans.

Trial ID: 16-2B-MW50 Location: Belleville Res. Center Trial Year: 2016
 Investigator: Karla L. Gage, Ph.D.

Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR												
		6-15-16	Control	Percent	14 DAA	14 DA-A	6-22-16	Control	Percent	-2 DA-B	21 DA-A	7-8-16	Control	Percent	14 DA-B	7-22-16	Control	Percent	28 DA-B	8-5-16	Control	Percent	42 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate	Growth Unit	Stage	Appl Code													
9	BOUNDARY	6.5	EC	1.63	lb ai/a	2	pt/a	PRE	A		0 d	0 d	99 a	99 a	99 a								
	FLEXSTAR GT	3.29	SL	1.65	lb ae/a	4	pt/a	4-6"	W	B													
	MSO	100	SL	1	% v/v	1	% v/v	4-6"	W	B													
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	4-6"	W	B													
LSD P=.05							4.9	9.5	0.5	2.1	1.9												
Standard Deviation							2.8	5.4	0.3	1.2	1.1												
CV							3.58	7.36	0.3	1.2	1.09												
Replicate F							2.070	1.857	0.467	1.448	1.750												
Replicate Prob(F)							0.1632	0.1926	0.6365	0.2681	0.2097												
Treatment F							392.410	93.878	0.800	5.513	3.500												
Treatment Prob(F)							0.0001	0.0001	0.6004	0.0033	0.0220												

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 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Average=6,7,24

Syngenta Programs for RR2 Xtend Soybeans.

Trial ID: 16-2B-MW50 Location: Belleville Res. Center Trial Year: 2016
 Investigator: Karla L. Gage, Ph.D.

Pest Code						ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Crop Code						6-15-16	6-22-16	7-8-16	7-22-16	8-5-16
Rating Date						Control	Control	Control	Control	Control
Rating Type						Percent	Percent	Percent	Percent	Percent
Rating Unit						14 DAA	-2 DA-B	14 DA-B	28 DA-B	42 DA-B
Rating Timing						14 DA-A	21 DA-A	14 DA-B	28 DA-B	42 DA-B
Trt-Eval Interval										
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Unit	Appl Stage	Code
1	NONTREATED									0
2	DICAMBA DGA	4	SL	0.5 lb	ae/a	1 pt/a		PRE	A	93 bcd
	BOUNDARY	6.5	EC	1.63 lb	ai/a	2 pt/a		PRE	A	90 a
	FLEXSTAR GT	3.29	SL	1.65 lb	ae/a	4 pt/a		4-6"W	B	99 a
	MSO	100	SL	1 %	v/v	1 % v/v		4-6"W	B	98 a
	AMS - LIQUID	100	SL	2.5 %	v/v	2.5 % v/v		4-6"W	B	99 a
3	DICAMBA DGA	4	SL	0.5 lb	ae/a	1 pt/a		PRE	A	95 abc
	BOUNDARY	6.5	EC	1.63 lb	ai/a	2 pt/a		PRE	A	90 a
	FLEXSTAR GT	3.29	SL	1.65 lb	ae/a	4 pt/a		4-6"W	B	99 a
	DUAL MAGNUM	7.62	EC	0.95 lb	ai/a	1 pt/a		4-6"W	B	99 a
	MSO	100	SL	1 %	v/v	1 % v/v		4-6"W	B	99 a
	AMS - LIQUID	100	SL	2.5 %	v/v	2.5 % v/v		4-6"W	B	99 a
4	DICAMBA DGA	4	SL	0.5 lb	ae/a	1 pt/a		PRE	A	90 cd
	DUAL MAGNUM	7.62	EC	0.95 lb	ai/a	1 pt/a		PRE	A	85 a
	FLEXSTAR GT	3.29	SL	1.65 lb	ae/a	4 pt/a		4-6"W	B	99 a
	MSO	100	SL	1 %	v/v	1 % v/v		4-6"W	B	98 a
	AMS - LIQUID	100	SL	2.5 %	v/v	2.5 % v/v		4-6"W	B	99 a
5	DICAMBA DGA	4	SL	0.5 lb	ae/a	1 pt/a		PRE	A	98 ab
	BROADAXE XC	7	SC	1.37 lb	ai/a	25 fl oz/a		PRE	A	93 a
	FLEXSTAR GT	3.29	SL	1.65 lb	ae/a	4 pt/a		4-6"W	B	99 a
	MSO	100	SL	1 %	v/v	1 % v/v		4-6"W	B	99 a
	AMS - LIQUID	100	SL	2.5 %	v/v	2.5 % v/v		4-6"W	B	99 a
6	DICAMBA DGA	4	SL	0.5 lb	ae/a	1 pt/a		PRE	A	95 abc
	BOUNDARY	6.5	EC	1.63 lb	ai/a	2 pt/a		PRE	A	90 a
	FLEXSTAR GT	3.29	SL	1.65 lb	ae/a	4 pt/a		4-6"W	B	99 a
	DICAMBA DGA	4	SL	0.5 lb	ae/a	1 pt/a		4-6"W	B	98 a
	MSO	100	SL	1 %	v/v	1 % v/v		4-6"W	B	99 a
	AG 13063	100	SL	1 %	v/v	1 % v/v		4-6"W	B	99 a
7	DICAMBA DGA	4	SL	0.5 lb	ae/a	1 pt/a		PRE	A	99 a
	VALOR XLT	40.3	WG	0.0756 lb	ai/a	3.0 oz/a		PRE	A	97 a
	FLEXSTAR GT	3.29	SL	1.65 lb	ae/a	4 pt/a		4-6"W	B	99 a
	MSO	100	SL	1 %	v/v	1 % v/v		4-6"W	B	99 a
	AMS - LIQUID	100	SL	2.5 %	v/v	2.5 % v/v		4-6"W	B	99 a
8	DICAMBA DGA	4	SL	0.5 lb	ae/a	1 pt/a		PRE	A	88 d
	DUAL MAGNUM	7.62	EC	0.95 lb	ai/a	1 pt/a		PRE	A	77 a
	DICAMBA DGA	4	SL	0.5 lb	ae/a	1 pt/a		4-6"W	B	99 a
	DUAL MAGNUM	7.62	EC	0.95 lb	ai/a	1 pt/a		4-6"W	B	98 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb	ae/a	32 fl oz/a		4-6"W	B	98 a
	AG 13063	100	SL	1 %	v/v	1 % v/v		4-6"W	B	98 a

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Average=6,7,24

Syngenta Programs for RR2 Xtend Soybeans.

Trial ID: 16-2B-MW50 Location: Belleville Res. Center Trial Year: 2016
Investigator: Karla L. Gage, Ph.D.

Pest Code	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH									
Crop Code	6-15-16	6-22-16	7-8-16	7-22-16	8-5-16									
Rating Date	Control	Control	Control	Control	Control									
Rating Type	Percent	Percent	Percent	Percent	Percent									
Rating Unit	14 DAA	-2 DA-B												
Rating Timing	14 DA-A	21 DA-A	14 DA-B	28 DA-B	42 DA-B									
Trt-Eval Interval														
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate	Growth Unit	Appl Stage	Code					
9	BOUNDARY	6.5	EC	1.63 lb ai/a	2 pt/a		PRE	A		96 ab	65 a	99 a	98 a	99 a
	FLEXSTAR GT	3.29	SL	1.65 lb ae/a	4 pt/a		4-6"W	B						
	MSO	100	SL	1 % v/v	1 % v/v		4-6"W	B						
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B						
LSD P=.05		5.1			32.7		0.7				1.4		0.7	
Standard Deviation		2.9			18.7		0.4				0.8		0.4	
CV		3.08			21.76		0.38				0.8		0.39	
Replicate F		0.372			0.356		0.000				0.467		1.960	
Replicate Prob(F)		0.6963			0.7069		1.0000				0.6365		0.1776	
Treatment F		4.662			0.931		0.625				0.914		1.240	
Treatment Prob(F)		0.0070			0.5129		0.7279				0.5236		0.3454	

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Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Missing data estimates are included in columns: Average=6,7,24

Syngenta Programs for RR2 Xtend Soybeans.

Trial ID: 16-2B-MW50 Location: Belleville Res. Center Trial Year: 2016
 Investigator: Karla L. Gage, Ph.D.

Pest Code							AMATA	AMATA	AMATA	AMATA	AMATA		
Crop Code							6-15-16	6-22-16	7-8-16	7-22-16	8-5-16		
Rating Date							Control	Control	Control	Control	Control		
Rating Type							Percent	Percent	Percent	Percent	Percent		
Rating Unit							14 DAA	-2 DA-B	14 DA-B	28 DA-B	42 DA-B		
Rating Timing							14 DA-A	21 DA-A	14 DA-B	28 DA-B	42 DA-B		
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Stage	Appl Code					
1	NONTREATED								0	0	0	0	0
2	DICAMBA DGA	4	SL	0.5 lb ae/a	1 pt/a		PRE	A	99 a	98 a	99 a	98 a	96 a
	BOUNDARY	6.5	EC	1.63 lb ai/a	2 pt/a		PRE	A					
	FLEXSTAR GT	3.29	SL	1.65 lb ae/a	4 pt/a		4-6"W	B					
	MSO	100	SL	1 % v/v	1 % v/v		4-6"W	B					
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B					
3	DICAMBA DGA	4	SL	0.5 lb ae/a	1 pt/a		PRE	A	99 a	99 a	99 a	99 a	99 a
	BOUNDARY	6.5	EC	1.63 lb ai/a	2 pt/a		PRE	A					
	FLEXSTAR GT	3.29	SL	1.65 lb ae/a	4 pt/a		4-6"W	B					
	DUAL MAGNUM	7.62	EC	0.95 lb ai/a	1 pt/a		4-6"W	B					
	MSO	100	SL	1 % v/v	1 % v/v		4-6"W	B					
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B					
4	DICAMBA DGA	4	SL	0.5 lb ae/a	1 pt/a		PRE	A	98 a	98 a	99 a	99 a	99 a
	DUAL MAGNUM	7.62	EC	0.95 lb ai/a	1 pt/a		PRE	A					
	FLEXSTAR GT	3.29	SL	1.65 lb ae/a	4 pt/a		4-6"W	B					
	MSO	100	SL	1 % v/v	1 % v/v		4-6"W	B					
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B					
5	DICAMBA DGA	4	SL	0.5 lb ae/a	1 pt/a		PRE	A	99 a	98 a	99 a	98 a	96 a
	BROADAXE XC	7	SC	1.37 lb ai/a	25 fl oz/a		PRE	A					
	FLEXSTAR GT	3.29	SL	1.65 lb ae/a	4 pt/a		4-6"W	B					
	MSO	100	SL	1 % v/v	1 % v/v		4-6"W	B					
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B					
6	DICAMBA DGA	4	SL	0.5 lb ae/a	1 pt/a		PRE	A	99 a	98 a	99 a	99 a	99 a
	BOUNDARY	6.5	EC	1.63 lb ai/a	2 pt/a		PRE	A					
	FLEXSTAR GT	3.29	SL	1.65 lb ae/a	4 pt/a		4-6"W	B					
	DICAMBA DGA	4	SL	0.5 lb ae/a	1 pt/a		4-6"W	B					
	MSO	100	SL	1 % v/v	1 % v/v		4-6"W	B					
	AG 13063	100	SL	1 % v/v	1 % v/v		4-6"W	B					
7	DICAMBA DGA	4	SL	0.5 lb ae/a	1 pt/a		PRE	A	99 a	92 b	97 b	95 b	98 a
	VALOR XLT	40.3	WG	0.0756 lb ai/a	3.0 oz/a		PRE	A					
	FLEXSTAR GT	3.29	SL	1.65 lb ae/a	4 pt/a		4-6"W	B					
	MSO	100	SL	1 % v/v	1 % v/v		4-6"W	B					
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B					
8	DICAMBA DGA	4	SL	0.5 lb ae/a	1 pt/a		PRE	A	99 a	97 a	99 a	99 a	99 a
	DUAL MAGNUM	7.62	EC	0.95 lb ai/a	1 pt/a		PRE	A					
	DICAMBA DGA	4	SL	0.5 lb ae/a	1 pt/a		4-6"W	B					
	DUAL MAGNUM	7.62	EC	0.95 lb ai/a	1 pt/a		4-6"W	B					
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W	B					
	AG 13063	100	SL	1 % v/v	1 % v/v		4-6"W	B					

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Average=6,7,24

Syngenta Programs for RR2 Xtend Soybeans.

Trial ID: 16-2B-MW50 Location: Belleville Res. Center Trial Year: 2016
 Investigator: Karla L. Gage, Ph.D.

Pest Code						AMATA	AMATA	AMATA	AMATA	AMATA
Crop Code										
Rating Date						6-15-16	6-22-16	7-8-16	7-22-16	8-5-16
Rating Type						Control	Control	Control	Control	Control
Rating Unit						Percent	Percent	Percent	Percent	Percent
Rating Timing						14 DAA	-2 DA-B			
Trt-Eval Interval						14 DA-A	21 DA-A	14 DA-B	28 DA-B	42 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Unit	Appl Stage	Code
9	BOUNDARY	6.5	EC	1.63	lb ai/a	2	pt/a	PRE	A	
	FLEXSTAR GT	3.29	SL	1.65	lb ae/a	4	pt/a	4-6"	W B	
	MSO	100	SL	1	% v/v	1	% v/v	4-6"	W B	
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	4-6"	W B	
										99 a
										99 a
										99 a
										98 a
										99 a
	LSD P=.05									0.7
	Standard Deviation									0.4
	CV									0.41
										1.88
										0.52
										0.99
										2.45
	Replicate F									1.000
	Replicate Prob(F)									3.200
	Treatment F									0.636
	Treatment Prob(F)									0.134
										0.655
										0.3927
										0.0717
										0.5439
										0.8759
										0.5348
										1.000
										4.884
										3.182
										4.783
										0.945
										0.4706
										0.0057
										0.0311
										0.0062
										0.5044

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Average=6,7,24

Syngenta Programs for RR2 Xtend Soybeans.

Trial ID: 16-2B-MW50 Location: Belleville Res. Center Trial Year: 2016
 Investigator: Karla L. Gage, Ph.D.

Pest Code							IPOHE	IPOHE	IPOHE
Crop Code							7-8-16	7-22-16	8-5-16
Rating Date							Control	Control	Control
Rating Type							Percent	Percent	Percent
Rating Unit							14 DA-B	28 DA-B	42 DA-B
Rating Timing									
Trt-Eval Interval									
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Stage	Appl Code	
1	NONTREATED								0 0 0
2	DICAMBA DGA	4	SL	0.5 lb ae/a	1 pt/a		PRE	A	70 b 89 a 98 ab
	BOUNDARY	6.5	EC	1.63 lb ai/a	2 pt/a		PRE	A	
	FLEXSTAR GT	3.29	SL	1.65 lb ae/a	4 pt/a		4-6"W	B	
	MSO	100	SL	1 % v/v	1 % v/v		4-6"W	B	
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B	
3	DICAMBA DGA	4	SL	0.5 lb ae/a	1 pt/a		PRE	A	73 b 90 a 95 b
	BOUNDARY	6.5	EC	1.63 lb ai/a	2 pt/a		PRE	A	
	FLEXSTAR GT	3.29	SL	1.65 lb ae/a	4 pt/a		4-6"W	B	
	DUAL MAGNUM	7.62	EC	0.95 lb ai/a	1 pt/a		4-6"W	B	
	MSO	100	SL	1 % v/v	1 % v/v		4-6"W	B	
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B	
4	DICAMBA DGA	4	SL	0.5 lb ae/a	1 pt/a		PRE	A	70 b 89 a 95 b
	DUAL MAGNUM	7.62	EC	0.95 lb ai/a	1 pt/a		PRE	A	
	FLEXSTAR GT	3.29	SL	1.65 lb ae/a	4 pt/a		4-6"W	B	
	MSO	100	SL	1 % v/v	1 % v/v		4-6"W	B	
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B	
5	DICAMBA DGA	4	SL	0.5 lb ae/a	1 pt/a		PRE	A	96 a 97 a 99 a
	BROADAXE XC	7	SC	1.37 lb ai/a	25 fl oz/a		PRE	A	
	FLEXSTAR GT	3.29	SL	1.65 lb ae/a	4 pt/a		4-6"W	B	
	MSO	100	SL	1 % v/v	1 % v/v		4-6"W	B	
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B	
6	DICAMBA DGA	4	SL	0.5 lb ae/a	1 pt/a		PRE	A	83 ab 96 a 98 ab
	BOUNDARY	6.5	EC	1.63 lb ai/a	2 pt/a		PRE	A	
	FLEXSTAR GT	3.29	SL	1.65 lb ae/a	4 pt/a		4-6"W	B	
	DICAMBA DGA	4	SL	0.5 lb ae/a	1 pt/a		4-6"W	B	
	MSO	100	SL	1 % v/v	1 % v/v		4-6"W	B	
	AG 13063	100	SL	1 % v/v	1 % v/v		4-6"W	B	
7	DICAMBA DGA	4	SL	0.5 lb ae/a	1 pt/a		PRE	A	97 a 98 a 97 ab
	VALOR XLT	40.3	WG	0.0756 lb ai/a	3.0 oz/a		PRE	A	
	FLEXSTAR GT	3.29	SL	1.65 lb ae/a	4 pt/a		4-6"W	B	
	MSO	100	SL	1 % v/v	1 % v/v		4-6"W	B	
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B	
8	DICAMBA DGA	4	SL	0.5 lb ae/a	1 pt/a		PRE	A	62 b 87 a 95 b
	DUAL MAGNUM	7.62	EC	0.95 lb ai/a	1 pt/a		PRE	A	
	DICAMBA DGA	4	SL	0.5 lb ae/a	1 pt/a		4-6"W	B	
	DUAL MAGNUM	7.62	EC	0.95 lb ai/a	1 pt/a		4-6"W	B	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W	B	
	AG 13063	100	SL	1 % v/v	1 % v/v		4-6"W	B	

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Average=6,7,24

Syngenta Programs for RR2 Xtend Soybeans.

Trial ID: 16-2B-MW50 Location: Belleville Res. Center Trial Year: 2016
 Investigator: Karla L. Gage, Ph.D.

Pest Code							IPOHE	IPOHE	IPOHE
Crop Code									
Rating Date							7-8-16	7-22-16	8-5-16
Rating Type							Control	Control	Control
Rating Unit							Percent	Percent	Percent
Rating Timing									
Trt-Eval Interval							14 DA-B	28 DA-B	42 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Stage	Appl Code
9	BOUNDARY	6.5	EC	1.63	lb ai/a	2	pt/a	PRE	A
	FLEXSTAR GT	3.29	SL	1.65	lb ae/a	4	pt/a	4-6"	B
	MSO	100	SL	1	% v/v	1	% v/v	4-6"	B
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	4-6"	B
LSD P=.05							21.3	12.3	3.5
Standard Deviation							12.0	7.0	2.0
CV							16.45	7.88	2.1
Replicate F							1.379	2.193	2.926
Replicate Prob(F)							0.2889	0.1484	0.0867
Treatment F							8.853	5.443	7.514
Treatment Prob(F)							0.0006	0.0035	0.0007

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Average=6,7,24

Syngenta Programs for RR2 Xtend Soybeans.

Trial ID: 16-2B-MW50 Location: Belleville Res. Center Trial Year: 2016
Investigator: Karla L. Gage, Ph.D.

Trial Comments

1. Protocol: Syngenta (EHLs04-2016).
2. Ratings:
CI 14 and 28 DA-A; 0, 7, 14, and 28 DA-B.
WC 14 and 28 DA-A; 0, 14, 28, and 42 DA-B.
Rate before spray application B.
3. Yield if possible, do not sell grain.
4. Application timing for B (4-6"W) is when weeds are 4-6 inch in treatment 9 (Boundary alone PRE).
Apply all B applications on the same day.
5. Photos not requested.
6. Rainfall following the PRE application A was 0.73 inch over 2 days beginning 3 days later.
Rainfall following the 4-6"W application B was 2.61 inch over 9 days beginning 6 days later.
7. Crop injury on 6-15-16 at 14 DA-A was stunting and delayed emergence.
Crop injury on 7-1-16 at 7 DA-B was chlorosis and minor necrosis in addition to stunt in plots where soybean were previously stunted.
Crop injury on 7-8-16 was leaf crinkling and leaf damage from heavy rain.
Crop injury on 7-22-16 was stunting which resulted in reduced crop canopy.
Lack of complete control of IPOHE at 14 DA-B was due to new emergence.
IPOHE emerged later than other weeds in the nontreated areas and could not be rated early.
8. Harvested 10-18-16, (2) 30 inch rows by 25 ft.