

Evaluation of a new s-metolachlor + dicamba premix POST in RR2 Xtend soybean - "Stewarded"

Trial ID: SOY19-16 Study Dir.: Sprague, Powell, Stiles
 Conducted: Campus B-8 (Adams) Investigator: Christy Sprague

Planting Date: May-25-2016 **Row Spacing:** 30 IN
Variety: AG 25X6 RR Xtend **No. of Reps:** 4
Population: 150000 seeds/A **% OM:** 2.8
Soil Type: SCL sandy clay loam **pH:** 6.9
Plot Size: 10 X 35 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel plow; spring soil finished
Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	ANGR	mainly foxtail species	Annual grass
2	CHEAL	lambsquarters, common	Chenopodium album
3	AMAPO	amaranth, Powell	Amaranthus powellii
4	AMBEL	ragweed, common	Ambrosia artemisiifolia
5	ABUTH	velvetleaf	Abutilon theophrasti
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

Application Timing: A POST
Date Treated: Jun-21-2016
Time Treated: 10:15 AM
% Cloud Cover: 0
Air Temp., Unit: 80 F
% Relative Humidity: 54
Wind Speed/Unit/Dir: 4 mph S
Soil Temp, Unit: 70 F
Leaf Moist/Dew Presence (Y/N): 5
Soil Moist: 5

Crop Stage at Each Application

A
Crop 1 Name: GLXMA
Height: 7-8 " (8)
Stage: V2

Weed Stage at Each Application

A
Weed 1 Name: ANGR
Height: 3-9 " (6)
Stage: many
Weed 2 Name: CHEAL
Height: 2-5 " (3)
Stage: many
Weed 3 Name: AMAPO
Height: 3-6 " (4)
Stage: many
Weed 4 Name: AMBEL
Height: 1-2 " (1)
Stage: 4-6L
Weed 5 Name: ABUTH
Height: 2-5 " (4)
Stage: 4-6L

Weed Density

	1	2	3	4	5
Date:	Jun-21-2016	Jun-21-2016	Jun-21-2016	Jun-21-2016	Jun-21-2016
Weed Name:	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Density:	3 FT2	7 FT2	2 FT2	1 FT2	1 FT2

Application Equipment

Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	Spray Volume	Carrier	Operation Pressure
A	CUB	3.8 mph	TTI	11003	24 "	20 "	100 "	19 GAL/AC	WATER	25 PSI

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Pest Code			ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code	GLXMA	GLXMA					
Rating Date	Jun-28-2016	Jul-5-2016	Jul-5-2016	Jul-5-2016	Jul-5-2016	Jul-5-2016	Jul-5-2016
Rating Type	injury	injury	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Code							
1	A21472	3.53	pt/a	A	2	9	18	100	89	96	75
1	A 13063	1	% v/v	A							
2	A21472	3.53	pt/a	A	3	11	25	100	86	100	86
2	Surfactant	0.25	% v/v	A							
2	A 13063	1	% v/v	A							
3	A21472	3.53	pt/a	A	3	11	100	100	100	93	86
3	Roundup PowerMax	28.4	fl oz/a	A							
3	A 13063	1	% v/v	A							
4	Untreated				0	0	0	0	0	0	0
5	A21472	3.53	pt/a	A	9	28	100	100	100	100	78
5	Flexstar	1	pt/a	A							
5	Roundup PowerMax	28.4	fl oz/a	A							
5	A 13063	1	% v/v	A							
6	A21472	3.53	pt/a	A	13	30	99	100	100	100	88
6	Flexstar	1	pt/a	A							
6	Roundup PowerMax	28.4	fl oz/a	A							
6	MSO	1	% v/v	A							
6	A 13063	1	% v/v	A							
7	Clarity	1	pt/a	A	2	2	100	100	100	99	91
7	Roundup PowerMax	28.4	fl oz/a	A							
7	A 13063	1	% v/v	A							
8	Clarity	1	pt/a	A	5	25	100	100	100	100	81
8	Warrant Ultra	50	fl oz/a	A							
8	Roundup PowerMax	28.4	fl oz/a	A							
8	A 13063	1	% v/v	A							
LSD P=.05		2.2				6.4	10.4	.	2.9	6.1	12.1
Standard Deviation		1.5				4.4	7.1	0.0	2.0	4.1	8.2
CV		32.48				30.16	10.51	0.0	2.33	4.81	11.24

Could not calculate LSD (% mean diff) for columns 4,10,11,14,16,17,18 because error mean square = 0.

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Pest Code		ANGR	CHEAL	AMAPO	AMBEL	ABUTH	
Crop Code	GLXMA						GLXMA
Rating Date	Jul-19-2016	Jul-19-2016	Jul-19-2016	Jul-19-2016	Jul-19-2016	Jul-19-2016	Aug-16-2016
Rating Type	injury	control	control	control	control	control	injury
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	56 DA-A
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Code							
1	A21472	3.53 pt/a	A		0	3	100	100	100	88	0
1	A 13063	1 % v/v	A								
2	A21472	3.53 pt/a	A		0	19	100	100	100	93	0
2	Surfactant	0.25 % v/v	A								
2	A 13063	1 % v/v	A								
3	A21472	3.53 pt/a	A		0	99	100	100	100	100	0
3	Roundup PowerMax	28.4 fl oz/a	A								
3	A 13063	1 % v/v	A								
4	Untreated				0	0	0	0	0	0	0
5	A21472	3.53 pt/a	A		0	98	100	100	100	92	0
5	Flexstar	1 pt/a	A								
5	Roundup PowerMax	28.4 fl oz/a	A								
5	A 13063	1 % v/v	A								
6	A21472	3.53 pt/a	A		4	96	100	100	100	98	0
6	Flexstar	1 pt/a	A								
6	Roundup PowerMax	28.4 fl oz/a	A								
6	MSO	1 % v/v	A								
6	A 13063	1 % v/v	A								
7	Clarity	1 pt/a	A		0	99	100	100	100	99	0
7	Roundup PowerMax	28.4 fl oz/a	A								
7	A 13063	1 % v/v	A								
8	Clarity	1 pt/a	A		3	99	100	100	100	95	0
8	Warrant Ultra	50 fl oz/a	A								
8	Roundup PowerMax	28.4 fl oz/a	A								
8	A 13063	1 % v/v	A								
LSD P=.05					1.2	6.0	.	.	0.5	10.5	.
Standard Deviation					0.8	4.1	0.0	0.0	0.4	7.1	0.0
CV					103.22	6.4	0.0	0.0	0.4	8.58	0.0

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Pest Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH	GLXMA
Crop Code						
Rating Date	Aug-16-2016	Aug-16-2016	Aug-16-2016	Aug-16-2016	Aug-16-2016	Oct-23-2016
Rating Type	control	control	control	control	control	moisture
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A	124 DA-A
Number of Decimals	0	0	0	0	0	1

Trt No.	Treatment Name	Rate	Appl Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH	GLXMA
1	A21472	3.53 pt/a	A	0	100	100	100	88	13.7
1	A 13063	1 % v/v	A						
2	A21472	3.53 pt/a	A	23	100	100	100	94	13.9
2	Surfactant	0.25 % v/v	A						
2	A 13063	1 % v/v	A						
3	A21472	3.53 pt/a	A	100	100	100	100	100	13.1
3	Roundup PowerMax	28.4 fl oz/a	A						
3	A 13063	1 % v/v	A						
4	Untreated			0	0	0	0	0	14.5
5	A21472	3.53 pt/a	A	100	100	100	100	92	13.4
5	Flexstar	1 pt/a	A						
5	Roundup PowerMax	28.4 fl oz/a	A						
5	A 13063	1 % v/v	A						
6	A21472	3.53 pt/a	A	97	100	100	100	97	13.6
6	Flexstar	1 pt/a	A						
6	Roundup PowerMax	28.4 fl oz/a	A						
6	MSO	1 % v/v	A						
6	A 13063	1 % v/v	A						
7	Clarity	1 pt/a	A	100	100	100	100	99	13.5
7	Roundup PowerMax	28.4 fl oz/a	A						
7	A 13063	1 % v/v	A						
8	Clarity	1 pt/a	A	100	100	100	100	96	13.4
8	Warrant Ultra	50 fl oz/a	A						
8	Roundup PowerMax	28.4 fl oz/a	A						
8	A 13063	1 % v/v	A						
LSD P=.05				3.5	.	.	.	8.8	0.60
Standard Deviation				2.3	0.0	0.0	0.0	6.0	0.41
CV				3.62	0.0	0.0	0.0	7.18	2.97

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Pest Code	
Crop Code	GLXMA
Rating Date	Oct-23-2016
Rating Type	yield
Rating Unit	bu/acre
Trt-Eval Interval	124 DA-A
Number of Decimals	1

Trt No.	Treatment Name	Rate	Unit	Appl Code	
1	A21472	3.53	pt/a	A	53.5
1	A 13063	1	% v/v	A	
2	A21472	3.53	pt/a	A	58.6
2	Surfactant	0.25	% v/v	A	
2	A 13063	1	% v/v	A	
3	A21472	3.53	pt/a	A	71.9
3	Roundup PowerMax	28.4	fl oz/a	A	
3	A 13063	1	% v/v	A	
4	Untreated				38.7
5	A21472	3.53	pt/a	A	71.2
5	Flexstar	1	pt/a	A	
5	Roundup PowerMax	28.4	fl oz/a	A	
5	A 13063	1	% v/v	A	
6	A21472	3.53	pt/a	A	69.0
6	Flexstar	1	pt/a	A	
6	Roundup PowerMax	28.4	fl oz/a	A	
6	MSO	1	% v/v	A	
6	A 13063	1	% v/v	A	
7	Clarity	1	pt/a	A	73.7
7	Roundup PowerMax	28.4	fl oz/a	A	
7	A 13063	1	% v/v	A	
8	Clarity	1	pt/a	A	69.6
8	Warrant Ultra	50	fl oz/a	A	
8	Roundup PowerMax	28.4	fl oz/a	A	
8	A 13063	1	% v/v	A	
	LSD P=.05				8.77
	Standard Deviation				5.96
	CV				9.42