

Adjuvant comparison in RR2 Xtend soybean

Trial ID: SOY16-17 Study Dir.: Sprague, Powell, Stiles
 Conducted: Campus H5 Investigator: Christy Sprague

Planting Date: May-9-2017 **Row Spacing:** 30 IN
Variety: AG25X6 **No. of Reps:** 3
Population: 155000 S/A **% OM:** 2.3
Soil Type: SCL sandy clay loam **pH:** 6.4
Plot Size: 10 X 35 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel plow; spring soil finish twice
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	AMBEL	ragweed, common	Ambrosia artemisiifolia
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

Application Timing: A
 POST
Date Treated: Jun-21-2017
Time Treated: 11:30 AM
% Cloud Cover: 15
Air Temp., Unit: 76 F
% Relative Humidity: 50
Wind Speed/Unit/Dir: 4 mph N
Soil Temp, Unit: 69 F
Leaf Moist/Dew Presence (Y/N): 4
Soil Moist: 4

Crop Stage at Each Application

Crop 1 Name: A
 GLXMA
Height: 8 "
Stage: V3

Weed Stage at Each Application

Weed 1 Name: A
 ANGR
Height: 5-6 " (5.5)
Stage: 3-4L
Weed 2 Name: CHEAL
Height: 4-6 " (5)
Stage: Many
Weed 3 Name: AMBEL
Height: 4-8 " (6)
Stage: 10-12L

Weed Density

	1	2	3
Date:	Jun-21-2017	Jun-21-2017	Jun-21-2017
Weed Name:	ANGR	CHEAL	AMBEL
Density:	10 FT2	6 FT2	2 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	26 "	20 "	100 "	19 GPA	WATER	25 PSI

Comments:

Adjuvant comparison in RR2 Xtend soybean

Trial ID: SOY16-17

Location: Campus H5

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code				ANGR	CHEAL	AMBEL	
Crop Code	GLXMA	GLXMA					GLXMA
Rating Date	Jun-25-2017	Jun-28-2017	Jun-28-2017	Jun-28-2017	Jun-28-2017	Jun-28-2017	Jul-5-2017
Rating Type	injury	injury	control	control	control	control	injury
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	4 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	14 DA-A
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
1	Engenia	5.5	SL	6.4	fl oz/a	A	0	2	78	80	78	0
1	Buccaneer Plus	3	SL	16	fl oz/a	A						
2	Engenia	5.5	SL	6.4	fl oz/a	A	0	2	82	87	82	0
2	Buccaneer Plus	3	SL	16	fl oz/a	A						
2	WC232		L	0.5	% v/v	A						
3	Engenia	5.5	SL	6.4	fl oz/a	A	0	3	90	80	88	0
3	Buccaneer Plus	3	SL	16	fl oz/a	A						
3	WC239		L	0.5	% v/v	A						
4	Engenia	5.5	SL	6.4	fl oz/a	A	0	3	70	83	88	0
4	Buccaneer Plus	3	SL	16	fl oz/a	A						
4	WC317		L	0.5	% v/v	A						
5	Engenia	5.5	SL	6.4	fl oz/a	A	0	1	88	90	85	0
5	Buccaneer Plus	3	SL	16	fl oz/a	A						
5	WC318		L	0.5	% v/v	A						
6	Engenia	5.5	SL	6.4	fl oz/a	A	0	4	70	83	87	0
6	Buccaneer Plus	3	SL	16	fl oz/a	A						
6	WC301		L	0.5	% v/v	A						
7	Engenia	5.5	SL	6.4	fl oz/a	A	0	2	88	88	93	0
7	Buccaneer Plus	3	SL	16	fl oz/a	A						
7	WC305		L	0.5	% v/v	A						
8	Engenia	5.5	SL	6.4	fl oz/a	A	0	4	90	94	90	0
8	Buccaneer Plus	3	SL	16	fl oz/a	A						
8	WC232		L	0.5	% v/v	A						
8	WC211		L	0.25	% v/v	A						
9	Engenia	5.5	SL	6.4	fl oz/a	A	0	3	92	92	88	0
9	Buccaneer Plus	3	SL	16	fl oz/a	A						
9	WC221		L	0.5	% v/v	A						
10	Engenia	5.5	SL	6.4	fl oz/a	A	0	3	90	90	90	0
10	Buccaneer Plus	3	SL	16	fl oz/a	A						
10	WC319		L	0.5	% v/v	A						
11	Untreated						0	0	0	0	0	0
LSD	P=.05						.	3.0	12.7	7.4	8.5	.
Standard Deviation							0.0	1.8	7.5	4.3	5.0	0.0
CV							0.0	70.28	9.79	5.48	6.31	0.0

* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,6,10,13 because error mean square = 0.

Adjuvant comparison in RR2 Xtend soybean

Trial ID: SOY16-17

Location: Campus H5

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ANGR	CHEAL	AMBEL	GLXMA	ANGR	CHEAL	AMBEL
Crop Code							
Rating Date	Jul-5-2017	Jul-5-2017	Jul-5-2017	Jul-12-2017	Jul-12-2017	Jul-12-2017	Jul-12-2017
Rating Type	control	control	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
1	Engenia	5.5	SL	6.4	fl oz/a	A	100	85	100	0	93	100
1	Buccaneer Plus	3	SL	16	fl oz/a	A						
2	Engenia	5.5	SL	6.4	fl oz/a	A	100	95	98	0	100	100
2	Buccaneer Plus	3	SL	16	fl oz/a	A						
2	WC232		L	0.5	% v/v	A						
3	Engenia	5.5	SL	6.4	fl oz/a	A	95	98	99	0	93	100
3	Buccaneer Plus	3	SL	16	fl oz/a	A						
3	WC239		L	0.5	% v/v	A						
4	Engenia	5.5	SL	6.4	fl oz/a	A	97	96	100	0	100	100
4	Buccaneer Plus	3	SL	16	fl oz/a	A						
4	WC317		L	0.5	% v/v	A						
5	Engenia	5.5	SL	6.4	fl oz/a	A	99	96	100	0	98	100
5	Buccaneer Plus	3	SL	16	fl oz/a	A						
5	WC318		L	0.5	% v/v	A						
6	Engenia	5.5	SL	6.4	fl oz/a	A	100	90	97	0	100	100
6	Buccaneer Plus	3	SL	16	fl oz/a	A						
6	WC301		L	0.5	% v/v	A						
7	Engenia	5.5	SL	6.4	fl oz/a	A	100	97	97	0	100	100
7	Buccaneer Plus	3	SL	16	fl oz/a	A						
7	WC305		L	0.5	% v/v	A						
8	Engenia	5.5	SL	6.4	fl oz/a	A	100	100	100	0	100	100
8	Buccaneer Plus	3	SL	16	fl oz/a	A						
8	WC232		L	0.5	% v/v	A						
8	WC211		L	0.25	% v/v	A						
9	Engenia	5.5	SL	6.4	fl oz/a	A	100	99	100	0	98	100
9	Buccaneer Plus	3	SL	16	fl oz/a	A						
9	WC221		L	0.5	% v/v	A						
10	Engenia	5.5	SL	6.4	fl oz/a	A	98	96	100	0	97	100
10	Buccaneer Plus	3	SL	16	fl oz/a	A						
10	WC319		L	0.5	% v/v	A						
11	Untreated						0	0	0	0	0	0
LSD	P=.05						5.5	5.8	4.1	.	6.2	2.3
Standard Deviation							3.2	3.4	2.4	0.0	3.6	1.3
CV							3.57	3.96	2.69	0.0	4.09	1.48

* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,6,10,13 because error mean square = 0.