

Evaluation of different glyphosate formulations - 12B5

Trial ID: SOY15-17 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-20-2017
Time Treated: 7:30 AM
% Cloud Cover: 5
Air Temp., Unit: 58 F
% Relative Humidity: 80
Wind Speed/Unit/Dir: 5 mph SW
Soil Temp, Unit: 65 F
Leaf Moist/Dew Presence (Y/N): 3
Soil Moist: 2

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: 6-12 " (9)
Stage: 4L
Weed 2 Name: CHEAL
Height: 4-8 " (6)
Stage: Many
Weed 3 Name: AMBEL
Height: 4-8 " (6)
Stage: Many

Weed Density

	1	2	3
Date:	Jun-20-2017	Jun-20-2017	Jun-20-2017
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	AIXR	11003	26 "	20 "	100 "	19 GPA	WATER	30 PSI

Comments:

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Pest Code		ANGR	CHEAL	AMBEL		ANGR
Crop Code	GLXMA				GLXMA	
Rating Date	Jul-5-2017	Jul-5-2017	Jul-5-2017	Jul-5-2017	Jul-11-2017	Jul-11-2017
Rating Type	injury	control	control	control	injury	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	15 DA-A	15 DA-A	15 DA-A	15 DA-A	21 DA-A	21 DA-A
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
1	Roundup WeatherMax	4.5	SL	0.33	lb ae/a	A	0	93	27	17	0	95
2	MON 301105	4.79	SL	0.33	lb ae/a	A	0	97	27	17	0	90
3	MON 301107	4.79	SL	0.33	lb ae/a	A	0	88	23	20	0	88
4	MON 301108	4.79	SL	0.33	lb ae/a	A	0	82	15	18	0	73
5	MON 78623	5.6	SL	0.33	lb ae/a	A	0	57	27	15	0	47
6	Roundup PowerMax	4.5	SL	0.33	lb ae/a	A	0	87	30	13	0	88
7	Untreated 1						0	0	0	0	0	0
8	Roundup WeatherMax	4.5	SL	0.66	lb ae/a	A	0	97	68	68	0	99
9	MON 301105	4.79	SL	0.66	lb ae/a	A	0	100	70	62	0	95
10	MON 301107	4.79	SL	0.66	lb ae/a	A	0	100	90	60	0	97
11	MON 301108	4.79	SL	0.66	lb ae/a	A	0	100	85	58	0	98
12	MON 78623	5.6	SL	0.66	lb ae/a	A	0	100	48	60	0	93
13	Roundup PowerMax	4.5	SL	0.66	lb ae/a	A	0	98	88	68	0	95
14	Untreated 2						0	0	0	0	0	0
15	Roundup WeatherMax	4.5	SL	1	lb ae/a	A	0	100	98	85	0	100
16	MON 301105	4.79	SL	1	lb ae/a	A	0	100	94	83	0	98
17	MON 301107	4.79	SL	1	lb ae/a	A	0	100	87	82	0	100
18	MON 301108	4.79	SL	1	lb ae/a	A	0	100	92	95	0	98
19	MON 78623	5.6	SL	1	lb ae/a	A	0	100	65	87	0	100
20	Roundup PowerMax	4.5	SL	1	lb ae/a	A	0	100	96	87	0	100
LSD P=.05							.	8.0	11.7	11.4	.	10.3
Standard Deviation							0.0	4.8	7.1	6.9	0.0	6.2
CV							0.0	5.7	12.5	13.86	0.0	7.53

* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,5 because error mean square = 0.

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Pest Code	CHEAL	AMBEL
Crop Code		
Rating Date	Jul-11-2017	Jul-11-2017
Rating Type	control	control
Rating Unit	percent	percent
Trt-Eval Interval	21 DA-A	21 DA-A
Number of Decimals	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*
1	Roundup WeatherMax	4.5	SL	0.33	lb ae/a	A	18	13
2	MON 301105	4.79	SL	0.33	lb ae/a	A	23	12
3	MON 301107	4.79	SL	0.33	lb ae/a	A	17	15
4	MON 301108	4.79	SL	0.33	lb ae/a	A	15	18
5	MON 78623	5.6	SL	0.33	lb ae/a	A	23	17
6	Roundup PowerMax	4.5	SL	0.33	lb ae/a	A	25	13
7	Untreated 1						0	0
8	Roundup WeatherMax	4.5	SL	0.66	lb ae/a	A	62	67
9	MON 301105	4.79	SL	0.66	lb ae/a	A	72	48
10	MON 301107	4.79	SL	0.66	lb ae/a	A	87	55
11	MON 301108	4.79	SL	0.66	lb ae/a	A	75	57
12	MON 78623	5.6	SL	0.66	lb ae/a	A	50	62
13	Roundup PowerMax	4.5	SL	0.66	lb ae/a	A	93	73
14	Untreated 2						0	0
15	Roundup WeatherMax	4.5	SL	1	lb ae/a	A	98	80
16	MON 301105	4.79	SL	1	lb ae/a	A	97	90
17	MON 301107	4.79	SL	1	lb ae/a	A	95	85
18	MON 301108	4.79	SL	1	lb ae/a	A	93	95
19	MON 78623	5.6	SL	1	lb ae/a	A	68	97
20	Roundup PowerMax	4.5	SL	1	lb ae/a	A	97	94
	LSD P=.05						8.9	10.5
	Standard Deviation						5.4	6.4
	CV						9.73	12.87

* Adjusted means

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