

Annual grass control with Liberty tank-mixtures

Trial ID: SOY16-22 Study Dir.: Sprague, Stiles, Powell
 Conducted: Campus, T-12 Investigator:

Planting Date: May-17-2022 **Row Spacing:** 30 IN
Variety: P24T35E **No. of Reps:** 4
Population: 150000 seeds/A **% OM:** 3.2
Soil Type: CL clay loam **pH:** 6.2
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	annual grass	mainly foxtail species and barnyardgrass
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

Application Timing: A
 POST
Date Treated: Jun-13-2022
Time Treated: 9:20 AM
% Cloud Cover: 0
Air Temp., Unit: 66 F
% Relative Humidity: 67
Wind Speed/Unit/Dir: 1.8 MPH NW
Soil Temp, Unit: 67 F
Leaf Moist/Dew Presence (Y/N): N
Soil Moist: 5

Crop Stage at Each Application

Crop 1 Name: A
 GLXMA
Height: 2-4 " (3)
Stage: V1-V2 (V2)

Weed Stage at Each Application

Weed 1 Name: A
 ANGR
Height: 4-9 " (5)
Stage: 3-5 (4L)

Weed Density

Date: 1
 Jun-13-2022
Weed Name: ANGR
Density: 11 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/TTI	11003	18 "	20 "	100 "	19 GAL/AC	WATER	

Comments: A blanket application of Sharpen at 1 fl oz/A was applied PRE to the entire study on May 17. Nozzles: XtendiMax treatments = TTI nozzles at 25 PSI; all others were AIXR nozzles at 30 PSI.

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 Protocol ID: SOY16-22 Investigator (Creator): Christy Sprague
 Project ID: Study Director: Sprague, Stiles, Powell
 Sponsor Contact:

Pest Code	ANGR		ANGR		ANGR	
	C, GLXMA	injury	C, GLXMA	injury	C, GLXMA	injury
Crop Type, Code	C, GLXMA	injury	C, GLXMA	injury	C, GLXMA	injury
Rating Date	Jun-20-2022	Jun-20-2022	Jun-27-2022	Jun-27-2022	Jul-5-2022	Jul-11-2022
Rating Type	injury	control	injury	control	injury	injury
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Trt-Eval Interval	7 DA-A	7 DA-A	14 DA-A	14 DA-A	22 DA-A	28 DA-A
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Timing	Appl Code						
1	Untreated					0	0	0	0	0	0
2	Turbo Teejet Nozzles				A	2	93	0	91	0	83
	Liberty	32 fl oz/a		POST	A						
	AMS	3 lb/a		POST	A						
3	Turbo Teejet Nozzles				A	0	96	0	92	0	88
	Roundup PowerMax 3	30 fl oz/a		POST	A						
	AMS	3 lb/a		POST	A						
4	Turbo Teejet Nozzles				A	3	96	0	92	0	82
	Liberty	32 fl oz/a		POST	A						
	Roundup PowerMax 3	30 fl oz/a		POST	A						
	AMS	3 lb/a		POST	A						
5	Turbo Teejet Nozzles				A	12	96	3	92	0	89
	BAS 1008AEH	36 fl oz/a		POST	A						
	AMS	3 lb/a		POST	A						
6	Turbo Teejet Nozzles				A	15	98	7	98	0	91
	BAS 1008AEH	36 fl oz/a		POST	A						
	SelectMax	12 fl oz/a		POST	A						
	Agri-Dex (COC)	1 % v/v		POST	A						
	AMS	3 lb/a		POST	A						
7	Turbo Teejet Nozzles				A	14	100	6	99	0	99
	BAS 1008AEH	36 fl oz/a		POST	A						
	Roundup PowerMax 3	30 fl oz/a		POST	A						
	AMS	3 lb/a		POST	A						
8	AIXR Nozzle				A	3	100	4	100	3	98
	Enlist Duo	4.75 pt/a		POST	A						
	AMS	3 lb/a		POST	A						
9	AIXR Nozzle				A	4	86	4	90	3	92
	Enlist One	2 pt/a		POST	A						
	SelectMax	12 fl oz/a		POST	A						
	Agri-Dex (COC)	1 % v/v		POST	A						
	AMS	3 lb/a		POST	A						
	LSD P=.05					2.4	7.3	2.6	8.0	1.0	6.7
	Standard Deviation					1.6	5.0	1.8	5.5	0.7	4.6
	CV					28.33	5.9	67.19	6.56	107.56	5.69

Could not calculate LSD (% mean diff) for columns 9,11 because error mean square = 0.

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Pest Code	ANGR		ANGR		ANGR
Crop Type, Code	C, GLXMA		C, GLXMA		
Rating Date	Jul-11-2022	Jul-25-2022	Jul-25-2022	Aug-8-2022	Aug-8-2022
Rating Type	control	injury	control	injury	control
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Trt-Eval Interval	28 DA-A	42 DA-A	42 DA-A	56 DA-A	56 DA-A
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Appl Timing	Appl Code	ANGR	C, GLXMA	ANGR	C, GLXMA	ANGR
1	Untreated					0	0	0	0	0
2	Turbo Teejet Nozzles				A	80	0	77	0	81
	Liberty	32 fl oz/a		POST	A					
	AMS	3 lb/a		POST	A					
3	Turbo Teejet Nozzles				A	83	0	77	0	79
	Roundup PowerMax 3	30 fl oz/a		POST	A					
	AMS	3 lb/a		POST	A					
4	Turbo Teejet Nozzles				A	77	0	72	0	76
	Liberty	32 fl oz/a		POST	A					
	Roundup PowerMax 3	30 fl oz/a		POST	A					
	AMS	3 lb/a		POST	A					
5	Turbo Teejet Nozzles				A	85	0	83	0	88
	BAS 1008AEH	36 fl oz/a		POST	A					
	AMS	3 lb/a		POST	A					
6	Turbo Teejet Nozzles				A	90	0	85	0	91
	BAS 1008AEH	36 fl oz/a		POST	A					
	SelectMax	12 fl oz/a		POST	A					
	Agri-Dex (COC)	1 % v/v		POST	A					
	AMS	3 lb/a		POST	A					
7	Turbo Teejet Nozzles				A	99	0	95	0	96
	BAS 1008AEH	36 fl oz/a		POST	A					
	Roundup PowerMax 3	30 fl oz/a		POST	A					
	AMS	3 lb/a		POST	A					
8	AIXR Nozzle				A	97	0	94	0	91
	Enlist Duo	4.75 pt/a		POST	A					
	AMS	3 lb/a		POST	A					
9	AIXR Nozzle				A	93	0	88	0	88
	Enlist One	2 pt/a		POST	A					
	SelectMax	12 fl oz/a		POST	A					
	Agri-Dex (COC)	1 % v/v		POST	A					
	AMS	3 lb/a		POST	A					
	LSD P=.05					6.1	.	8.5	.	8.4
	Standard Deviation					4.2	0.0	5.8	0.0	5.7
	CV					5.32	0.0	7.78	0.0	7.52

Could not calculate LSD (% mean diff) for columns 9,11 because error mean square = 0.