

Influence of West Central adjuvants on weed control with Liberty

Trial ID: SOY17-19 Study Dir.: Sprague, Powell, Stiles
 Conducted: Campus, H6-8 Investigator: Christy Sprague

Planting Date: Jul-1-2019 **Row Spacing:** 30 IN
Variety: Stine 24EA12 **No. of Reps:** 4
Population: 155000 seeds/A **% OM:** 2.9
Soil Type: L loam **pH:** 7.0
Plot Size: 10 X 35 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel plowed; spring soil finish (2X)
Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	ANGR	barnyardgrass, I.crabgrass, foxtail sp.	Annual grass
2	AMAPO	amaranth, Powell	Amaranthus powellii
3	AMBEL	ragweed, common	Ambrosia artemisiifolia
4	ABUTH	velvetleaf	Abutilon theophrasti
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

Application Timing: POST
Date Treated: Jul-31-2019
Time Treated: 10:40 AM
% Cloud Cover: 75
Air Temp., Unit: 68 F
% Relative Humidity: 74
Wind Speed/Unit/Dir: 5 mph SW
Soil Temp, Unit: 72 F
Leaf Moist/Dew Presence (Y/N): 4
Soil Moist: 3

Crop Stage at Each Application

A
Crop 1 Name: GLXMA
Height: 12 "
Stage: V3

Weed Stage at Each Application

A
Weed 1 Name: ANGR
Height: 2-8 " (5)
Stage: 2-4L
Weed 2 Name: AMAPO
Height: 4-8 " (6)
Stage: 6-12L
Weed 3 Name: AMBEL
Height: 2-8 " (5)
Stage: 4-12L
Weed 4 Name: ABUTH
Height: 2-6 " (4)
Stage: 2-6L

Weed Density

Date:	1	2	3	4
	Jul-31-2019	Jul-31-2019	Jul-31-2019	Jul-31-2019
Weed Name:	ANGR	AMAPO	AMBEL	ABUTH
Density:	79 FT2	2 FT2	4 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	AIXR	11003	33 "	20 "	100 "	19 GAL/AC	WATER	30 psi

Comments:

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Pest Code				ANGR	AMAPO	AMBEL	ABUTH
Crop Type, Code		GLXMA	GLXMA				
Rating Date		Aug-3-2019	Aug-7-2019	Aug-7-2019	Aug-7-2019	Aug-7-2019	Aug-7-2019
Rating Type		injury	injury	control	control	control	control
Rating Unit		percent	percent	percent	percent	percent	percent
Trt-Eval Interval		3 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A
Number of Decimals		0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code						
1	Liberty	2.34	L	16 fl oz/a		POST	A	0	0	73	100	86	66
2	Liberty	2.34	L	16 fl oz/a		POST	A	0	0	78	100	98	99
	2 Liquid AMS		L	3.5 pt/a		POST	A						
3	Liberty	2.34	L	16 fl oz/a		POST	A	0	0	74	100	98	98
	3 Liquid AMS		L	7 pt/a		POST	A						
4	Untreated							0	0	0	0	0	0
5	Liberty	2.34	L	16 fl oz/a		POST	A	0	0	65	100	91	78
	5 WC115		L	3 qt/100 gal		POST	A						
6	Liberty	2.34	L	16 fl oz/a		POST	A	0	0	63	100	91	79
	6 WC221		L	2 qt/100 gal		POST	A						
7	Liberty	2.34	L	16 fl oz/a		POST	A	0	0	76	100	99	98
	7 WC221		L	0.25 % v/v		POST	A						
	7 Liquid AMS		L	3.5 pt/a		POST	A						
8	Liberty	2.34	L	16 fl oz/a		POST	A	0	0	78	100	99	100
	8 WC458		L	0.25 % v/v		POST	A						
	8 Liquid AMS		L	3.5 pt/a		POST	A						
9	Liberty	2.34	L	16 fl oz/a		POST	A	2	0	75	100	89	99
	9 WC520		L	3 gal/100 gal		POST	A						
	LSD P=.05							.	.	6.2	.	11.0	10.5
	Standard Deviation							0.0	0.0	4.3	0.0	7.5	7.2
	CV							0.0	0.0	6.62	0.0	9.01	9.08

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Pest Code	ANGL	AMAPO	AMBEL	ABUTH
Crop Type, Code	GLXMA			
Rating Date	Aug-14-2019	Aug-14-2019	Aug-14-2019	Aug-14-2019
Rating Type	injury	control	control	control
Rating Unit	percent	percent	percent	percent
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code					
1	Liberty	2.34	L	16 fl oz/a		POST	A	0	64	100	94	60
2	Liberty	2.34	L	16 fl oz/a		POST	A	0	68	100	98	99
	2 Liquid AMS		L	3.5 pt/a		POST	A					
3	Liberty	2.34	L	16 fl oz/a		POST	A	0	66	100	100	100
	3 Liquid AMS		L	7 pt/a		POST	A					
4	Untreated							0	0	0	0	0
5	Liberty	2.34	L	16 fl oz/a		POST	A	0	55	100	88	71
	5 WC115		L	3 qt/100 gal		POST	A					
6	Liberty	2.34	L	16 fl oz/a		POST	A	0	53	100	85	75
	6 WC221		L	2 qt/100 gal		POST	A					
7	Liberty	2.34	L	16 fl oz/a		POST	A	0	64	100	99	100
	7 WC221		L	0.25 % v/v		POST	A					
	7 Liquid AMS		L	3.5 pt/a		POST	A					
8	Liberty	2.34	L	16 fl oz/a		POST	A	0	69	100	100	100
	8 WC458		L	0.25 % v/v		POST	A					
	8 Liquid AMS		L	3.5 pt/a		POST	A					
9	Liberty	2.34	L	16 fl oz/a		POST	A	0	55	99	76	100
	9 WC520		L	3 gal/100 gal		POST	A					
	LSD P=.05								10.4	1.2	14.3	16.1
	Standard Deviation							0.0	7.1	0.8	9.8	11.1
	CV							0.0	13.04	0.94	11.91	14.12

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Pest Code		ANGR	AMAPO	AMBEL	ABUTH
Crop Type, Code	GLXMA				
Rating Date	Aug-28-2019	Aug-28-2019	Aug-28-2019	Aug-28-2019	Aug-28-2019
Rating Type	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code					
1	Liberty	2.34	L	16 fl oz/a		POST	A	0	56	99	90	80
2	Liberty	2.34	L	16 fl oz/a		POST	A	0	53	100	95	96
	2 Liquid AMS		L	3.5 pt/a		POST	A					
3	Liberty	2.34	L	16 fl oz/a		POST	A	0	55	100	90	100
	3 Liquid AMS		L	7 pt/a		POST	A					
4	Untreated							0	0	0	0	0
5	Liberty	2.34	L	16 fl oz/a		POST	A	0	45	100	79	80
	5 WC115		L	3 qt/100 gal		POST	A					
6	Liberty	2.34	L	16 fl oz/a		POST	A	0	44	100	83	75
	6 WC221		L	2 qt/100 gal		POST	A					
7	Liberty	2.34	L	16 fl oz/a		POST	A	0	54	100	95	100
	7 WC221		L	0.25 % v/v		POST	A					
	7 Liquid AMS		L	3.5 pt/a		POST	A					
8	Liberty	2.34	L	16 fl oz/a		POST	A	0	53	100	98	100
	8 WC458		L	0.25 % v/v		POST	A					
	8 Liquid AMS		L	3.5 pt/a		POST	A					
9	Liberty	2.34	L	16 fl oz/a		POST	A	0	43	100	78	100
	9 WC520		L	3 gal/100 gal		POST	A					
	LSD P=.05								7.7	1.2	12.6	15.3
	Standard Deviation							0.0	5.3	0.8	8.6	10.5
	CV							0.0	11.78	0.94	11.0	12.88