

Adjuvant comparison with Liberty Ultra tank-mixes with Enlist One

Trial ID: SOY15-25 Study Dir.: Stiles, Sprague
 Conducted: Campus, B-8 Investigator: Christy Sprague

Planting Date: May-27-2025 **Row Spacing:** 30 IN
Variety: P23Z82E **No. of Reps:** 4
Population: 150000 S/A **% OM:** 2.3
Soil Type: SCL sandy clay loam **pH:** 6.8
Plot Size: 10 X 35 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Spring chisel plow followed by soil finisher twice.

Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	ANGR	annual grass	mostly foxtail and barnyardgrass
2	CHEAL	common lambsquarters	Chenopodium album
3	AMAPO	Powell amaranth	Amaranthus powellii
4	AMBEL	common ragweed	Ambrosia artemisiifolia
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

Application Timing: A POST
Date Treated: Jul-1-2025
Time Treated: 9:30 AM
% Cloud Cover: 0
Air Temp., Unit: 74 F
% Relative Humidity: 66
Wind Speed/Unit/Dir: 5 MPH W
Soil Temp, Unit: 72 F
Leaf Moist/Dew Presence (Y/N): N
Soil Moist: 5

Crop Stage at Each Application

Crop 1 Name: A GLXMA
Height: 6-10 " (8)
Stage: V3/V4

Weed Stage at Each Application

Weed 1 Name: A ANGR
Height: 2-10 " (6)
Stage: 2-6L
Weed 2 Name: CHEAL
Height: 1-8 " (6)
Stage: 4-38L
Weed 3 Name: AMAPO
Height: 1-3 " (2)
Stage: 4-8L
Weed 4 Name: AMBEL
Height: 4-6 " (5)
Stage: 4-10L

Weed Density

	1	2	3	4
Date:	Jul-1-2025	Jul-1-2025	Jul-1-2025	Jul-1-2025
Weed Name:	ANGR	CHEAL	AMAPO	AMBEL
Density:	6 FT2	4 FT2	2 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	30.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	30 PSI

Comments:

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 Protocol ID: S0Y15-25 Location: Campus, B-8 Trial Year: 2025
 Study Director: Stiles, Sprague Sponsor Contact:
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Rating Date					Jul-8-2025	Jul-8-2025	Jul-8-2025	Jul-8-2025	Jul-15-2025	Jul-15-2025	Jul-15-2025	
Rating Type					injury	control	control	control	injury	control	control	
Rating Unit					%	%	%	%	%	%	%	
Crop Type, Code					C, GLXMA							
Pest Code						ANGR	CHEAL	AMAPO		ANGR	CHEAL	
Treatment Appl. Interval					7 DA-A	7 DA-A	7 DA-A	7 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 Rate	Appl Unit	Appl Code	Timing							
1	Liberty Ultra AMS	24 fl oz/a	A		POST	0	99	97	100	0	99	98
2	Liberty Ultra	1.5 lb/a	A		POST							
2	Destiny HC (HSMOC)	24 fl oz/a	A		POST	0	99	100	100	0	99	99
	AMS	0.5 % v/v	A		POST							
3	Liberty Ultra	1.5 lb/a	A		POST							
	MSO	24 fl oz/a	A		POST	0	99	93	100	0	100	97
	AMS	1 % v/v	A		POST							
		1.5 lb/a	A		POST							
4	Untreated					0	0	0	0	0	0	0
5	Liberty Ultra	24 fl oz/a	A		POST	2	99	100	100	0	100	100
6	Enlist One	32 fl oz/a	A		POST							
	AMS	1.5 lb/a	A		POST							
	Liberty Ultra	24 fl oz/a	A		POST	3	96	99	100	0	99	100
	Enlist One	32 fl oz/a	A		POST							
	Destiny HC (HSMOC)	0.5 % v/v	A		POST							
7	AMS	1.5 lb/a	A		POST							
	Liberty Ultra	24 fl oz/a	A		POST	5	99	100	100	0	100	100
	Enlist One	32 fl oz/a	A		POST							
	MSO	1 % v/v	A		POST							
	AMS	1.5 lb/a	A		POST							
8	Outlook	12.8 fl oz/a	A		POST	6	96	100	100	0	100	100
	Liberty Ultra	24 fl oz/a	A		POST							
	Enlist One	32 fl oz/a	A		POST							
	Strikelock	8 fl oz/a	A		POST							
	AMS	1.5 lb/a	A		POST							
LSD P=.05					1.2	2.1	3.8	.	.	1.6	3.7	
Standard Deviation					0.8	1.4	2.6	0.0	0.0	1.1	2.5	
CV					41.52	1.65	2.99	0.0	0.0	1.23	2.91	

Missing data estimates are included in columns: Average=4
 Could not calculate LSD (% mean diff) or mean separation letters for columns 4,5,8,10,13,14 because error variance is 0.
 Mean separation letters are 'na' (not applicable) when error variance is 0

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Rating Date				Jul-15-2025	Jul-15-2025	Jul-22-2025	Jul-22-2025	Jul-22-2025	Jul-22-2025	Jul-22-2025
Rating Type				control	control	injury	control	control	control	control
Rating Unit				%	%	%	%	%	%	%
Crop Type, Code						C, GLXMA				
Pest Code				AMAPO	AMBEL		ANGR	CHEAL	AMAPO	AMBEL
Treatment Appl. Interval				14 DA-A	14 DA-A	21 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	Rate	Appl Unit	Appl Code	Appl Timing					
1	Liberty Ultra	24 fl oz/a	A	POST		100	100	0	98	99
	AMS	1.5 lb/a	A	POST						
2	Liberty Ultra	24 fl oz/a	A	POST		100	100	0	100	100
	Destiny HC (HSMOC)	0.5 % v/v	A	POST						
	AMS	1.5 lb/a	A	POST						
3	Liberty Ultra	24 fl oz/a	A	POST		100	99	0	98	94
	MSO	1 % v/v	A	POST						
	AMS	1.5 lb/a	A	POST						
4	Untreated					0	0	0	0	0
5	Liberty Ultra	24 fl oz/a	A	POST		100	100	0	99	100
	Enlist One	32 fl oz/a	A	POST						
	AMS	1.5 lb/a	A	POST						
6	Liberty Ultra	24 fl oz/a	A	POST		100	100	0	99	100
	Enlist One	32 fl oz/a	A	POST						
	Destiny HC (HSMOC)	0.5 % v/v	A	POST						
	AMS	1.5 lb/a	A	POST						
7	Liberty Ultra	24 fl oz/a	A	POST		100	100	0	99	100
	Enlist One	32 fl oz/a	A	POST						
	MSO	1 % v/v	A	POST						
	AMS	1.5 lb/a	A	POST						
8	Outlook	12.8 fl oz/a	A	POST		100	100	0	99	100
	Liberty Ultra	24 fl oz/a	A	POST						
	Enlist One	32 fl oz/a	A	POST						
	Strikelock	8 fl oz/a	A	POST						
	AMS	1.5 lb/a	A	POST						
LSD P=.05						.	0.8	.	2.0	4.9
Standard Deviation						0.0	0.5	0.0	1.4	3.3
CV						0.0	0.61	0.0	1.59	3.86

Missing data estimates are included in columns: Average=4
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 Mean separation letters are 'na' (not applicable) when error variance is 0