

Comparison of commercial programs in Enlist E3 soybean

Trial ID: SOY05-25 Study Dir.: Stiles, Sprague
 Conducted: Campus, C-14 Investigator: Christy Sprague

Planting Date: May-14-2025 **Row Spacing:** 30 IN
Variety: P23Z82E **No. of Reps:** 4
Population: 150000 S/A **% OM:** 2.5
Soil Type: CL clay loam **pH:** 6.0
Plot Size: 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel and soil finish; spring soil finish twice.

Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	ANGR	annual grass	mostly giant foxtail and barnyardgrass
2	CHEAL	common lambsquarters	Chenopodium album
3	AMBEL	common ragweed	Ambrosia artemisiifolia
4	ABUTH	velvetleaf	Abutilon theophrasti
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

	A	B	C	D
Application Timing:	PRE	EPOS	POST	LPOS
Date Treated:	May-14-2025	Jun-9-2025	Jun-20-2025	Jun-30-2025
Time Treated:	3:00 PM	10:00 AM	3:00 PM	9:50 AM
% Cloud Cover:	75	20	76	29
Air Temp., Unit:	72 F	70 F	77 F	78 F
% Relative Humidity:	90	60	71	84
Wind Speed/Unit/Dir:	8 MPH SE	8 MPH SSW	4 MPH W	3 MPH S
Soil Temp, Unit:	72 F	71 F	79 F	80 F
Leaf Moist/Dew Presence (Y/N):	N	N	N	N
Soil Moist:	5	5	2	5

Crop Stage at Each Application

	A	B	C	D
Crop 1 Name:	GLXMA	GLXMA	GLXMA	GLXMA
Height:		2-3 " (3)	5-7 " (5)	10-14 " (12)
Stage:		V1	V2	V6

Weed Stage at Each Application

	A	B	C	D
Weed 1 Name:	ANGR	ANGR	ANGR	ANGR
Height:		1-5 " (3)	0.5-2.5 IN (1.5)	3-7 " (4)
Stage:		1-5L	2-4L	2-6L
Weed 2 Name:	CHEAL	CHEAL	CHEAL	CHEAL
Height:		0.75-2 " (2)	0.75-2 IN (1.5)	
Stage:		2-6L	2-6L	
Weed 3 Name:	AMBEL	AMBEL	AMBEL	AMBEL
Height:		0.75-2 " (1.5)	1-4 IN (2.5)	1-7 " (3)
Stage:		2-4L	4-10L	4-18L
Weed 4 Name:	ABUTH	ABUTH	ABUTH	ABUTH
Height:			2 "	4 "
Stage:			2L	3-5L

Weed Density

	1	2	3	4
Date:	Jun-9-2025	Jun-9-2025	Jun-9-2025	Jun-9-2025
Weed Name:	ANGR	CHEAL	AMBEL	ABUTH
Density:	2 FT2	2 FT2	6 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	18.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	30 PSI
B	CUB	3.8 MPH	AIXR	11003	26.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	30 PSI
C	CUB	3.8 MPH	AIXR	11003	24.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	30 PSI
D	CUB	3.8 MPH	AIXR	11003	30.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	30 PSI

Comments: The common ragweed population at this location is resistant to ALS-inhibiting herbicides (Group 2).

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Investigator: Christy Sprague

Rating Date					Jun-4-2025	Jun-4-2025	Jun-4-2025	Jun-16-2025	Jun-16-2025	Jun-16-2025
Rating Type					injury	control	control	injury	control	control
Rating Unit					%	%	%	%	%	%
Crop Type, Code					C, GLXMA			C, GLXMA		
Pest Code						ANGR	AMBEL		ANGR	CHEAL
Treatment Appl. Interval					21 DA-A	21 DA-A	21 DA-A	7 DA-B	7 DA-B	7 DA-B
Number of Decimals					0	0	0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	Appl Timing					
1	Zidua PRO	6 fl oz/a	A	PRE		1	100	99	2	100
	Liberty Ultra	29 fl oz/a	C	POST						
	AMS	8.5 lb/100 gal	C	POST						
2	Warrant	3 pt/a	A	PRE		2	100	95	3	96
	Metribuzin	6 oz/a	A	PRE						
	Liberty Ultra	24 fl oz/a	C	POST						
	Roundup PowerMax 3	30 fl oz/a	C	POST						
	AMS	17 lb/100 gal	C	POST						
3	Authority Supreme	8 fl oz/a	A	PRE		2	100	95	5	98
	Metribuzin	6 oz/a	A	PRE						
	Liberty Ultra	24 fl oz/a	C	POST						
	Roundup PowerMax 3	30 fl oz/a	C	POST						
	AMS	17 lb/100 gal	C	POST						
4	Untreated					0	0	0	0	0
5	Fierce EZ	6 fl oz/a	A	PRE		3	100	98	4	98
	Perpetuo	6 fl oz/a	C	POST						
	Liberty Ultra	24 fl oz/a	C	POST						
	Surfactant	0.25 % v/v	C	POST						
	AMS	3 lb/a	C	POST						
6	Fierce MTZ	16 fl oz/a	A	PRE		0	100	97	1	98
	Perpetuo	6 fl oz/a	C	POST						
	Liberty Ultra	24 fl oz/a	C	POST						
	Surfactant	0.25 % v/v	C	POST						
	AMS	3 lb/a	C	POST						
7	Fierce XLT	4 oz/a	A	PRE		2	99	97	7	93
	Perpetuo	6 fl oz/a	C	POST						
	Liberty Ultra	24 fl oz/a	C	POST						
	Surfactant	0.25 % v/v	C	POST						
	AMS	3 lb/a	C	POST						
8	Tendovo	2.1 qt/a	A	PRE		2	100	96	8	100
	Flexstar	1 pt/a	C	POST						
	Roundup PowerMax 3	30 fl oz/a	C	POST						
	Liberty Ultra	24 fl oz/a	C	POST						
	AMS	3 lb/a	C	POST						
9	Authority XL	4 oz/a	A	PRE		2	100	46	16	100
	Anthem MAXX	3 fl oz/a	B	EPOS						
	Roundup PowerMax 3	30 fl oz/a	B	EPOS						
	Liberty Ultra	24 fl oz/a	B	EPOS						
	AMS	17 lb/100 gal	B	EPOS						
10	Fierce MTZ	16 fl oz/a	A	PRE		2	100	98	4	98
	Warrant	3 pt/a	C	POST						
	Liberty Ultra	24 fl oz/a	C	POST						
	Roundup PowerMax 3	30 fl oz/a	C	POST						
	AMS	17 lb/100 gal	C	POST						
11	Kyber Pro	16 fl oz/a	A	PRE		2	99	99	3	95
	Enversa	3 pt/a	C	POST						
	Enlist One	32 fl oz/a	C	POST						
	Roundup PowerMax 3	30 fl oz/a	C	POST						
	Optify HSCOC	0.5 % v/v	C	POST						
	AMS	17 lb/100 gal	C	POST						

Missing data estimates are included in columns: Average=1,2,3,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25

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Rating Date					Jun-4-2025	Jun-4-2025	Jun-4-2025	Jun-16-2025	Jun-16-2025	Jun-16-2025
Rating Type					injury	control	control	injury	control	control
Rating Unit					%	%	%	%	%	%
Crop Type, Code					C, GLXMA			C, GLXMA		
Pest Code						ANGR	AMBEL		ANGR	CHEAL
Treatment Appl. Interval					21 DA-A	21 DA-A	21 DA-A	7 DA-B	7 DA-B	7 DA-B
Number of Decimals					0	0	0	0	0	0
Trt Treatment	Rate	Appl	Appl							
No. Name	Rate Unit	Code	Timing							
12 Kyber Pro	16 fl oz/a	A	PRE		1	100	98	5	97	100
Enversa	3 pt/a	C	POST							
Liberty Ultra	24 fl oz/a	C	POST							
Enlist One	32 fl oz/a	C	POST							
Optify HSCOC	0.5 % v/v	C	POST							
AMS	8.5 lb/100 gal	C	POST							
13 Boundary	2 pt/a	A	PRE		1	100	95	2	100	100
Sequence	3.5 pt/a	C	POST							
Liberty Ultra	24 fl oz/a	C	POST							
AMS	3 lb/a	C	POST							
14 Boundary	1.25 pt/a	A	PRE		0	100	100	3	100	100
Prefix	2 pt/a	A	PRE							
Sequence	3.5 pt/a	C	POST							
Liberty Ultra	24 fl oz/a	C	POST							
AMS	3 lb/a	C	POST							
15 Tendovo	2.1 qt/a	A	PRE		3	100	99	6	99	100
Sequence	3.5 pt/a	C	POST							
Liberty Ultra	24 fl oz/a	C	POST							
AMS	3 lb/a	C	POST							
16 Roundup PowerMax 3	30 fl oz/a	C	POST		1	0	0	0	0	0
AMS	17 lb/100 gal	C	POST							
17 Liberty Ultra	24 fl oz/a	C	POST		0	0	0	0	0	0
AMS	8.5 lb/100 gal	C	POST							
18 Liberty Ultra	24 fl oz/a	C	POST		0	0	0	0	0	0
Enlist One	32 fl oz/a	C	POST							
Optify HSCOC	0.5 % v/v	C	POST							
AMS	8.5 lb/100 gal	C	POST							
19 Enlist Duo	4.75 pt/a	C	POST		0	0	0	0	0	0
AMS	17 lb/100 gal	C	POST							
20 Verdict	5 fl oz/a	A	PRE		1	100	100	2	99	100
Zidua PLUS	6 fl oz/a	C	POST							
Liberty Ultra	24 fl oz/a	C	POST							
Roundup PowerMax 3	30 fl oz/a	C	POST							
AMS	8.5 lb/100 gal	C	POST							
21 Zidua PLUS	6 fl oz/a	B	EPOS		0	0	0	14	100	100
Roundup PowerMax 3	30 fl oz/a	B	EPOS							
AMS	8.5 lb/100 gal	B	EPOS							
Outlook	14 fl oz/a	D	LPOS							
Liberty Ultra	24 fl oz/a	D	LPOS							
Roundup PowerMax 3	30 fl oz/a	D	LPOS							
AMS	8.5 lb/100 gal	D	LPOS							
22 SAUSX-08	40 fl oz/a	A	PRE		2	100	60	3	99	100
Liberty Ultra	24 fl oz/a	C	POST							
Enlist One	32 fl oz/a	C	POST							
Optify HSCOC	0.5 % v/v	C	POST							
AMS	8.5 lb/100 gal	C	POST							
23 Zidua PLUS	6 fl oz/a	A	PRE		3	100	50	1	74	99
Outlook	14 fl oz/a	C	POST							
Liberty Ultra	24 fl oz/a	C	POST							
Roundup PowerMax 3	30 fl oz/a	C	POST							
AMS	8.5 lb/100 gal	C	POST							
24 Preview 2.1	21 fl oz/a	A	PRE		4	100	97	6	99	100
Moccasin	1.33 pt/a	A	PRE							
UPH-2015-004-C	17.6 fl oz/a	C	POST							
Vacciplant	14 fl oz/a	C	POST							
AMS	3 lb/a	C	POST							

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Rating Date	Jun-4-2025	Jun-4-2025	Jun-4-2025	Jun-16-2025	Jun-16-2025	Jun-16-2025
Rating Type	injury	control	control	injury	control	control
Rating Unit	%	%	%	%	%	%
Crop Type, Code	C, GLXMA			C, GLXMA		
Pest Code		ANGR	AMBEL		ANGR	CHEAL
Treatment Appl. Interval	21 DA-A	21 DA-A	21 DA-A	7 DA-B	7 DA-B	7 DA-B
Number of Decimals	0	0	0	0	0	0
Trt No.	Treatment Name	Rate	Unit	Appl Code	Appl Timing	
25	Preview 2.1	21 fl oz/a	A	PRE		3
	Satellite Hydrocap	2 pt/a	A	PRE		100
	UPH-2015-004-C	17.6 fl oz/a	C	POST		88
	Vacciplant	14 fl oz/a	C	POST		3
	AMS	3 lb/a	C	POST		98
	LSD P=.05					100
	Standard Deviation					
	CV					
		2.7	0.7	7.0	3.6	4.4
		1.9	0.5	4.9	2.5	3.1
		139.13	0.65	7.23	67.17	4.0
						0.7
						0.5
						0.63

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Rating Date					Jun-16-2025	Jun-27-2025	Jun-27-2025	Jun-27-2025	Jun-27-2025	Jun-27-2025	Jul-2-2025
Rating Type					control		injury		control		injury
Rating Unit					%	%	%	%	%	%	%
Crop Type, Code						C, GLXMA					C, GLXMA
Pest Code					AMBEL		ANGR		CHEAL		AMBEL
Treatment Appl. Interval					7 DA-B	7 DA-C	7 DA-C	7 DA-C	7 DA-C	7 DA-C	12 DA-C
Number of Decimals					0	0	0	0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	Appl Timing						
1	Zidua PRO	6 fl oz/a	A	PRE		91	1	100	100	100	1
	Liberty Ultra	29 fl oz/a	C	POST							
	AMS	8.5 lb/100 gal	C	POST							
2	Warrant	3 pt/a	A	PRE		81	0	100	100	100	0
	Metribuzin	6 oz/a	A	PRE							
	Liberty Ultra	24 fl oz/a	C	POST							
	Roundup PowerMax 3	30 fl oz/a	C	POST							
	AMS	17 lb/100 gal	C	POST							
3	Authority Supreme	8 fl oz/a	A	PRE		88	0	100	100	100	0
	Metribuzin	6 oz/a	A	PRE							
	Liberty Ultra	24 fl oz/a	C	POST							
	Roundup PowerMax 3	30 fl oz/a	C	POST							
	AMS	17 lb/100 gal	C	POST							
4	Untreated					0	0	0	0	0	0
5	Fierce EZ	6 fl oz/a	A	PRE		83	14	100	100	99	8
	Perpetuo	6 fl oz/a	C	POST							
	Liberty Ultra	24 fl oz/a	C	POST							
	Surfactant	0.25 % v/v	C	POST							
	AMS	3 lb/a	C	POST							
6	Fierce MTZ	16 fl oz/a	A	PRE		85	16	100	100	100	8
	Perpetuo	6 fl oz/a	C	POST							
	Liberty Ultra	24 fl oz/a	C	POST							
	Surfactant	0.25 % v/v	C	POST							
	AMS	3 lb/a	C	POST							
7	Fierce XLT	4 oz/a	A	PRE		82	16	100	100	100	12
	Perpetuo	6 fl oz/a	C	POST							
	Liberty Ultra	24 fl oz/a	C	POST							
	Surfactant	0.25 % v/v	C	POST							
	AMS	3 lb/a	C	POST							
8	Tendovo	2.1 qt/a	A	PRE		88	20	100	100	100	18
	Flexstar	1 pt/a	C	POST							
	Roundup PowerMax 3	30 fl oz/a	C	POST							
	Liberty Ultra	24 fl oz/a	C	POST							
	AMS	3 lb/a	C	POST							
9	Authority XL	4 oz/a	A	PRE		99	7	99	100	88	3
	Anthem MAXX	3 fl oz/a	B	EPOS							
	Roundup PowerMax 3	30 fl oz/a	B	EPOS							
	Liberty Ultra	24 fl oz/a	B	EPOS							
	AMS	17 lb/100 gal	B	EPOS							
10	Fierce MTZ	16 fl oz/a	A	PRE		85	2	100	100	100	3
	Warrant	3 pt/a	C	POST							
	Liberty Ultra	24 fl oz/a	C	POST							
	Roundup PowerMax 3	30 fl oz/a	C	POST							
	AMS	17 lb/100 gal	C	POST							
11	Kyber Pro	16 fl oz/a	A	PRE		86	2	100	100	100	3
	Enversa	3 pt/a	C	POST							
	Enlist One	32 fl oz/a	C	POST							
	Roundup PowerMax 3	30 fl oz/a	C	POST							
	Optify HSCOC	0.5 % v/v	C	POST							
	AMS	17 lb/100 gal	C	POST							

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Rating Date					Jun-16-2025	Jun-27-2025	Jun-27-2025	Jun-27-2025	Jun-27-2025	Jun-27-2025	Jul-2-2025
Rating Type					control		injury		control		injury
Rating Unit					%		%		%		%
Crop Type, Code						C, GLXMA					C, GLXMA
Pest Code					AMBEL		ANGR		CHEAL		AMBEL
Treatment Appl. Interval					7 DA-B	7 DA-C	7 DA-C	7 DA-C	7 DA-C	7 DA-C	12 DA-C
Number of Decimals					0	0	0	0	0	0	0
Trt	Treatment	Rate	Appl	Appl							
No.	Name	Rate Unit	Code	Timing							
12	Kyber Pro	16 fl oz/a	A	PRE	86	4	100	100	100	4	
	Enversa	3 pt/a	C	POST							
	Liberty Ultra	24 fl oz/a	C	POST							
	Enlist One	32 fl oz/a	C	POST							
	Optify HSCOC	0.5 % v/v	C	POST							
	AMS	8.5 lb/100 gal	C	POST							
13	Boundary	2 pt/a	A	PRE	82	6	100	100	100	4	
	Sequence	3.5 pt/a	C	POST							
	Liberty Ultra	24 fl oz/a	C	POST							
	AMS	3 lb/a	C	POST							
14	Boundary	1.25 pt/a	A	PRE	98	6	100	100	100	5	
	Prefix	2 pt/a	A	PRE							
	Sequence	3.5 pt/a	C	POST							
	Liberty Ultra	24 fl oz/a	C	POST							
	AMS	3 lb/a	C	POST							
15	Tendovo	2.1 qt/a	A	PRE	86	6	100	100	100	5	
	Sequence	3.5 pt/a	C	POST							
	Liberty Ultra	24 fl oz/a	C	POST							
	AMS	3 lb/a	C	POST							
16	Roundup PowerMax 3	30 fl oz/a	C	POST	0	1	94	100	70	0	
	AMS	17 lb/100 gal	C	POST							
17	Liberty Ultra	24 fl oz/a	C	POST	0	1	92	100	98	6	
	AMS	8.5 lb/100 gal	C	POST							
18	Liberty Ultra	24 fl oz/a	C	POST	0	5	88	100	96	5	
	Enlist One	32 fl oz/a	C	POST							
	Optify HSCOC	0.5 % v/v	C	POST							
	AMS	8.5 lb/100 gal	C	POST							
19	Enlist Duo	4.75 pt/a	C	POST	0	5	87	98	81	9	
	AMS	17 lb/100 gal	C	POST							
20	Verdict	5 fl oz/a	A	PRE	100	12	100	100	100	8	
	Zidua PLUS	6 fl oz/a	C	POST							
	Liberty Ultra	24 fl oz/a	C	POST							
	Roundup PowerMax 3	30 fl oz/a	C	POST							
	AMS	8.5 lb/100 gal	C	POST							
21	Zidua PLUS	6 fl oz/a	B	EPOS	95	2	96	100	80	1	
	Roundup PowerMax 3	30 fl oz/a	B	EPOS							
	AMS	8.5 lb/100 gal	B	EPOS							
	Outlook	14 fl oz/a	D	LPOS							
	Liberty Ultra	24 fl oz/a	D	LPOS							
	Roundup PowerMax 3	30 fl oz/a	D	LPOS							
	AMS	8.5 lb/100 gal	D	LPOS							
22	SAUSX-08	40 fl oz/a	A	PRE	59	2	100	100	99	1	
	Liberty Ultra	24 fl oz/a	C	POST							
	Enlist One	32 fl oz/a	C	POST							
	Optify HSCOC	0.5 % v/v	C	POST							
	AMS	8.5 lb/100 gal	C	POST							
23	Zidua PLUS	6 fl oz/a	A	PRE	48	6	100	100	100	6	
	Outlook	14 fl oz/a	C	POST							
	Liberty Ultra	24 fl oz/a	C	POST							
	Roundup PowerMax 3	30 fl oz/a	C	POST							
	AMS	8.5 lb/100 gal	C	POST							
24	Preview 2.1	21 fl oz/a	A	PRE	76	1	100	100	100	1	
	Moccasin	1.33 pt/a	A	PRE							
	UPH-2015-004-C	17.6 fl oz/a	C	POST							
	Vacciplant	14 fl oz/a	C	POST							
	AMS	3 lb/a	C	POST							

Missing data estimates are included in columns: Average=1,2,3,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25

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Rating Date	Jun-16-2025	Jun-27-2025	Jun-27-2025	Jun-27-2025	Jun-27-2025	Jul-2-2025
Rating Type	control	injury	control	control	control	injury
Rating Unit	%	%	%	%	%	%
Crop Type, Code	C, GLXMA					C, GLXMA
Pest Code	AMBEL		ANGR	CHEAL	AMBEL	
Treatment Appl. Interval	7 DA-B	7 DA-C	7 DA-C	7 DA-C	7 DA-C	12 DA-C
Number of Decimals	0	0	0	0	0	0
Trt No.	Treatment Name	Rate	Unit	Appl Code	Appl Timing	
25	Preview 2.1	21 fl oz/a	A	PRE		82
	Satellite Hydrocap	2 pt/a	A	PRE		1
	UPH-2015-004-C	17.6 fl oz/a	C	POST		100
	Vacciplant	14 fl oz/a	C	POST		100
	AMS	3 lb/a	C	POST		100
LSD P=.05						2.8
Standard Deviation						4.9
CV						3.5
						80.16

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Rating Date					Jul-2-2025	Jul-2-2025	Jul-2-2025	Jul-18-2025	Jul-18-2025	Jul-18-2025	Jul-18-2025
Rating Type					control	control	control	injury	control	control	control
Rating Unit					%	%	%	%	%	%	%
Crop Type, Code								C, GLXMA			
Pest Code					ANGR	CHEAL	AMBEL		ANGR	CHEAL	AMBEL
Treatment Appl. Interval					12 DA-C	12 DA-C	12 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C
Number of Decimals					0	0	0	0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	Appl Timing						
1	Zidua PRO	6 fl oz/a	A	PRE		100	100	100	0	100	100
	Liberty Ultra	29 fl oz/a	C	POST							99
	AMS	8.5 lb/100 gal	C	POST							
2	Warrant	3 pt/a	A	PRE		100	100	100	0	100	100
	Metribuzin	6 oz/a	A	PRE							
	Liberty Ultra	24 fl oz/a	C	POST							
	Roundup PowerMax 3	30 fl oz/a	C	POST							
	AMS	17 lb/100 gal	C	POST							
3	Authority Supreme	8 fl oz/a	A	PRE		100	100	100	0	100	100
	Metribuzin	6 oz/a	A	PRE							
	Liberty Ultra	24 fl oz/a	C	POST							
	Roundup PowerMax 3	30 fl oz/a	C	POST							
	AMS	17 lb/100 gal	C	POST							
4	Untreated					0	0	0	0	0	0
5	Fierce EZ	6 fl oz/a	A	PRE		100	100	100	0	100	100
	Perpetuo	6 fl oz/a	C	POST							
	Liberty Ultra	24 fl oz/a	C	POST							
	Surfactant	0.25 % v/v	C	POST							
	AMS	3 lb/a	C	POST							
6	Fierce MTZ	16 fl oz/a	A	PRE		100	100	100	0	100	100
	Perpetuo	6 fl oz/a	C	POST							
	Liberty Ultra	24 fl oz/a	C	POST							
	Surfactant	0.25 % v/v	C	POST							
	AMS	3 lb/a	C	POST							
7	Fierce XLT	4 oz/a	A	PRE		100	100	100	3	100	100
	Perpetuo	6 fl oz/a	C	POST							99
	Liberty Ultra	24 fl oz/a	C	POST							
	Surfactant	0.25 % v/v	C	POST							
	AMS	3 lb/a	C	POST							
8	Tendovo	2.1 qt/a	A	PRE		100	100	100	5	100	100
	Flexstar	1 pt/a	C	POST							
	Roundup PowerMax 3	30 fl oz/a	C	POST							
	Liberty Ultra	24 fl oz/a	C	POST							
	AMS	3 lb/a	C	POST							
9	Authority XL	4 oz/a	A	PRE		99	100	83	0	93	100
	Anthem MAXX	3 fl oz/a	B	EPOS							72
	Roundup PowerMax 3	30 fl oz/a	B	EPOS							
	Liberty Ultra	24 fl oz/a	B	EPOS							
	AMS	17 lb/100 gal	B	EPOS							
10	Fierce MTZ	16 fl oz/a	A	PRE		100	100	100	0	100	100
	Warrant	3 pt/a	C	POST							
	Liberty Ultra	24 fl oz/a	C	POST							
	Roundup PowerMax 3	30 fl oz/a	C	POST							
	AMS	17 lb/100 gal	C	POST							
11	Kyber Pro	16 fl oz/a	A	PRE		100	100	100	0	100	100
	Enversa	3 pt/a	C	POST							
	Enlist One	32 fl oz/a	C	POST							
	Roundup PowerMax 3	30 fl oz/a	C	POST							
	Optify HSCOC	0.5 % v/v	C	POST							
	AMS	17 lb/100 gal	C	POST							

Missing data estimates are included in columns: Average=1,2,3,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25

Michigan State University

Comparison of commercial programs in Enlist E3 soybean

Trial ID: SOY05-25

Protocol ID: SOY05-25 Location: Campus, C-14 Trial Year: 2025

Study Director: Stiles, Sprague Sponsor Contact:

Investigator: Christy Sprague

Rating Date					Jul-2-2025	Jul-2-2025	Jul-2-2025	Jul-18-2025	Jul-18-2025	Jul-18-2025	Jul-18-2025
Rating Type					control	control	control	injury	control	control	control
Rating Unit					%	%	%	%	%	%	%
Crop Type, Code								C, GLXMA			
Pest Code					ANGR	CHEAL	AMBEL		ANGR	CHEAL	AMBEL
Treatment Appl. Interval					12 DA-C	12 DA-C	12 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C
Number of Decimals					0	0	0	0	0	0	0
Trt	Treatment	Rate	Appl	Appl							
No.	Name	Rate Unit	Code	Timing							
12	Kyber Pro	16 fl oz/a	A	PRE	100	100	100	1	100	100	100
	Enversa	3 pt/a	C	POST							
	Liberty Ultra	24 fl oz/a	C	POST							
	Enlist One	32 fl oz/a	C	POST							
	Optify HSCOC	0.5 % v/v	C	POST							
	AMS	8.5 lb/100 gal	C	POST							
13	Boundary	2 pt/a	A	PRE	100	100	99	0	100	100	98
	Sequence	3.5 pt/a	C	POST							
	Liberty Ultra	24 fl oz/a	C	POST							
	AMS	3 lb/a	C	POST							
14	Boundary	1.25 pt/a	A	PRE	99	100	100	0	100	100	100
	Prefix	2 pt/a	A	PRE							
	Sequence	3.5 pt/a	C	POST							
	Liberty Ultra	24 fl oz/a	C	POST							
	AMS	3 lb/a	C	POST							
15	Tendovo	2.1 qt/a	A	PRE	100	100	100	0	100	100	97
	Sequence	3.5 pt/a	C	POST							
	Liberty Ultra	24 fl oz/a	C	POST							
	AMS	3 lb/a	C	POST							
16	Roundup PowerMax 3	30 fl oz/a	C	POST	99	100	66	0	93	98	70
	AMS	17 lb/100 gal	C	POST							
17	Liberty Ultra	24 fl oz/a	C	POST	93	97	96	0	82	83	83
	AMS	8.5 lb/100 gal	C	POST							
18	Liberty Ultra	24 fl oz/a	C	POST	96	100	100	0	85	98	92
	Enlist One	32 fl oz/a	C	POST							
	Optify HSCOC	0.5 % v/v	C	POST							
	AMS	8.5 lb/100 gal	C	POST							
19	Enlist Duo	4.75 pt/a	C	POST	99	100	100	0	85	95	89
	AMS	17 lb/100 gal	C	POST							
20	Verdict	5 fl oz/a	A	PRE	100	100	100	0	100	100	100
	Zidua PLUS	6 fl oz/a	C	POST							
	Liberty Ultra	24 fl oz/a	C	POST							
	Roundup PowerMax 3	30 fl oz/a	C	POST							
	AMS	8.5 lb/100 gal	C	POST							
21	Zidua PLUS	6 fl oz/a	B	EPOS	96	100	86	0	100	100	100
	Roundup PowerMax 3	30 fl oz/a	B	EPOS							
	AMS	8.5 lb/100 gal	B	EPOS							
	Outlook	14 fl oz/a	D	LPOS							
	Liberty Ultra	24 fl oz/a	D	LPOS							
	Roundup PowerMax 3	30 fl oz/a	D	LPOS							
	AMS	8.5 lb/100 gal	D	LPOS							
22	SAUSX-08	40 fl oz/a	A	PRE	100	100	100	0	100	100	99
	Liberty Ultra	24 fl oz/a	C	POST							
	Enlist One	32 fl oz/a	C	POST							
	Optify HSCOC	0.5 % v/v	C	POST							
	AMS	8.5 lb/100 gal	C	POST							
23	Zidua PLUS	6 fl oz/a	A	PRE	100	100	100	0	100	100	96
	Outlook	14 fl oz/a	C	POST							
	Liberty Ultra	24 fl oz/a	C	POST							
	Roundup PowerMax 3	30 fl oz/a	C	POST							
	AMS	8.5 lb/100 gal	C	POST							
24	Preview 2.1	21 fl oz/a	A	PRE	100	100	98	0	100	100	88
	Moccasin	1.33 pt/a	A	PRE							
	UPH-2015-004-C	17.6 fl oz/a	C	POST							
	Vacciplant	14 fl oz/a	C	POST							
	AMS	3 lb/a	C	POST							

Missing data estimates are included in columns: Average=1,2,3,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25

Michigan State University

Comparison of commercial programs in Enlist E3 soybean

Trial ID: SOY05-25

Protocol ID: SOY05-25 Location: Campus, C-14 Trial Year: 2025

Study Director: Stiles, Sprague Sponsor Contact:

Investigator: Christy Sprague

Rating Date	Jul-2-2025	Jul-2-2025	Jul-2-2025	Jul-18-2025	Jul-18-2025	Jul-18-2025	Jul-18-2025
Rating Type	control	control	control	injury	control	control	control
Rating Unit	%	%	%	%	%	%	%
Crop Type, Code	C, GLXMA						
Pest Code	ANGR	CHEAL	AMBEL		ANGR	CHEAL	AMBEL
Treatment Appl. Interval	12 DA-C	12 DA-C	12 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C
Number of Decimals	0	0	0	0	0	0	0
Trt No.	Treatment Name	Rate	Unit	Appl Code	Appl Timing		
25	Preview 2.1	21	fl oz/a	A	PRE	100	100
	Satellite Hydrocap	2	pt/a	A	PRE	99	0
	UPH-2015-004-C	17.6	fl oz/a	C	POST	100	100
	Vacciplant	14	fl oz/a	C	POST		
	AMS	3	lb/a	C	POST		
LSD P=.05						1.9	0.6
Standard Deviation						4.3	0.9
CV						3.4	3.9
						5.8	4.1
						4.5	4.5

Missing data estimates are included in columns: Average=1,2,3,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25

Michigan State University

Comparison of commercial programs in Enlist E3 soybean

Trial ID: SOY05-25

Protocol ID: SOY05-25 Location: Campus, C-14 Trial Year: 2025

Study Director: Stiles, Sprague Sponsor Contact:

Investigator: Christy Sprague

Rating Date					Jul-18-2025	Oct-3-2025	Oct-3-2025	Oct-3-2025	Oct-5-2025	Oct-5-2025	
Rating Type					control	control	control	control	moisture	yield	
Rating Unit					%	%	%	%	%	bu/A	
Crop Type, Code									C, GLXMA	C, GLXMA	
Pest Code					ABUTH	ANGR	CHEAL	AMBEL			
Treatment Appl. Interval					28 DA-C	105 DA-C	105 DA-C	105 DA-C	107 DA-C	107 DA-C	
Number of Decimals					0	0	0	0	1	1	
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	Appl Timing						
1	Zidua PRO	6 fl oz/a	A	PRE		100	100	100	99	10.3	47.6
	Liberty Ultra	29 fl oz/a	C	POST							
	AMS	8.5 lb/100 gal	C	POST							
2	Warrant	3 pt/a	A	PRE		100	100	100	96	10.3	50.4
	Metribuzin	6 oz/a	A	PRE							
	Liberty Ultra	24 fl oz/a	C	POST							
	Roundup PowerMax 3	30 fl oz/a	C	POST							
	AMS	17 lb/100 gal	C	POST							
3	Authority Supreme	8 fl oz/a	A	PRE		100	100	100	99	10.2	54.1
	Metribuzin	6 oz/a	A	PRE							
	Liberty Ultra	24 fl oz/a	C	POST							
	Roundup PowerMax 3	30 fl oz/a	C	POST							
	AMS	17 lb/100 gal	C	POST							
4	Untreated					0	0	0	0	10.2	7.7
5	Fierce EZ	6 fl oz/a	A	PRE		100	100	100	100	10.0	48.7
	Perpetuo	6 fl oz/a	C	POST							
	Liberty Ultra	24 fl oz/a	C	POST							
	Surfactant	0.25 % v/v	C	POST							
	AMS	3 lb/a	C	POST							
6	Fierce MTZ	16 fl oz/a	A	PRE		100	97	100	99	10.0	48.3
	Perpetuo	6 fl oz/a	C	POST							
	Liberty Ultra	24 fl oz/a	C	POST							
	Surfactant	0.25 % v/v	C	POST							
	AMS	3 lb/a	C	POST							
7	Fierce XLT	4 oz/a	A	PRE		100	100	100	99	10.0	49.1
	Perpetuo	6 fl oz/a	C	POST							
	Liberty Ultra	24 fl oz/a	C	POST							
	Surfactant	0.25 % v/v	C	POST							
	AMS	3 lb/a	C	POST							
8	Tendovo	2.1 qt/a	A	PRE		100	100	100	97	10.2	47.3
	Flexstar	1 pt/a	C	POST							
	Roundup PowerMax 3	30 fl oz/a	C	POST							
	Liberty Ultra	24 fl oz/a	C	POST							
	AMS	3 lb/a	C	POST							
9	Authority XL	4 oz/a	A	PRE		100	98	100	71	10.4	37.3
	Anthem MAXX	3 fl oz/a	B	EPOS							
	Roundup PowerMax 3	30 fl oz/a	B	EPOS							
	Liberty Ultra	24 fl oz/a	B	EPOS							
	AMS	17 lb/100 gal	B	EPOS							
10	Fierce MTZ	16 fl oz/a	A	PRE		100	99	100	100	10.1	47.3
	Warrant	3 pt/a	C	POST							
	Liberty Ultra	24 fl oz/a	C	POST							
	Roundup PowerMax 3	30 fl oz/a	C	POST							
	AMS	17 lb/100 gal	C	POST							
11	Kyber Pro	16 fl oz/a	A	PRE		100	100	100	100	9.9	50.2
	Enversa	3 pt/a	C	POST							
	Enlist One	32 fl oz/a	C	POST							
	Roundup PowerMax 3	30 fl oz/a	C	POST							
	Optify HSCOC	0.5 % v/v	C	POST							
	AMS	17 lb/100 gal	C	POST							

Missing data estimates are included in columns: Average=1,2,3,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25

Michigan State University

Comparison of commercial programs in Enlist E3 soybean

Trial ID: SOY05-25

Protocol ID: SOY05-25 Location: Campus, C-14 Trial Year: 2025

Study Director: Stiles, Sprague Sponsor Contact:

Investigator: Christy Sprague

Rating Date	Jul-18-2025	Oct-3-2025	Oct-3-2025	Oct-3-2025	Oct-5-2025	Oct-5-2025
Rating Type	control	control	control	control	moisture	yield
Rating Unit	%	%	%	%	%	bu/A
Crop Type, Code	C, GLXMA C, GLXMA					
Pest Code	ABUTH	ANGR	CHEAL	AMBEL		
Treatment Appl. Interval	28 DA-C	105 DA-C	105 DA-C	105 DA-C	107 DA-C	107 DA-C
Number of Decimals	0	0	0	0	1	1
Trt Treatment	Rate	Appl	Appl			
No. Name	Rate Unit	Code	Timing			
12 Kyber Pro	16 fl oz/a	A	PRE	100	100	100
Enversa	3 pt/a	C	POST			
Liberty Ultra	24 fl oz/a	C	POST			
Enlist One	32 fl oz/a	C	POST			
Optify HSCOC	0.5 % v/v	C	POST			
AMS	8.5 lb/100 gal	C	POST			
13 Boundary	2 pt/a	A	PRE	96	95	100
Sequence	3.5 pt/a	C	POST			
Liberty Ultra	24 fl oz/a	C	POST			
AMS	3 lb/a	C	POST			
14 Boundary	1.25 pt/a	A	PRE	100	100	100
Prefix	2 pt/a	A	PRE			
Sequence	3.5 pt/a	C	POST			
Liberty Ultra	24 fl oz/a	C	POST			
AMS	3 lb/a	C	POST			
15 Tendovo	2.1 qt/a	A	PRE	98	100	100
Sequence	3.5 pt/a	C	POST			
Liberty Ultra	24 fl oz/a	C	POST			
AMS	3 lb/a	C	POST			
16 Roundup PowerMax 3	30 fl oz/a	C	POST	100	91	93
AMS	17 lb/100 gal	C	POST			
17 Liberty Ultra	24 fl oz/a	C	POST	96	78	83
AMS	8.5 lb/100 gal	C	POST			
18 Liberty Ultra	24 fl oz/a	C	POST	99	80	99
Enlist One	32 fl oz/a	C	POST			
Optify HSCOC	0.5 % v/v	C	POST			
AMS	8.5 lb/100 gal	C	POST			
19 Enlist Duo	4.75 pt/a	C	POST	94	78	86
AMS	17 lb/100 gal	C	POST			
20 Verdict	5 fl oz/a	A	PRE	100	100	100
Zidua PLUS	6 fl oz/a	C	POST			
Liberty Ultra	24 fl oz/a	C	POST			
Roundup PowerMax 3	30 fl oz/a	C	POST			
AMS	8.5 lb/100 gal	C	POST			
21 Zidua PLUS	6 fl oz/a	B	EPOS	100	100	100
Roundup PowerMax 3	30 fl oz/a	B	EPOS			
AMS	8.5 lb/100 gal	B	EPOS			
Outlook	14 fl oz/a	D	LPOS			
Liberty Ultra	24 fl oz/a	D	LPOS			
Roundup PowerMax 3	30 fl oz/a	D	LPOS			
AMS	8.5 lb/100 gal	D	LPOS			
22 SAUSX-08	40 fl oz/a	A	PRE	100	100	100
Liberty Ultra	24 fl oz/a	C	POST			
Enlist One	32 fl oz/a	C	POST			
Optify HSCOC	0.5 % v/v	C	POST			
AMS	8.5 lb/100 gal	C	POST			
23 Zidua PLUS	6 fl oz/a	A	PRE	99	100	98
Outlook	14 fl oz/a	C	POST			
Liberty Ultra	24 fl oz/a	C	POST			
Roundup PowerMax 3	30 fl oz/a	C	POST			
AMS	8.5 lb/100 gal	C	POST			
24 Preview 2.1	21 fl oz/a	A	PRE	100	100	100
Moccasin	1.33 pt/a	A	PRE			
UPH-2015-004-C	17.6 fl oz/a	C	POST			
Vacciplant	14 fl oz/a	C	POST			
AMS	3 lb/a	C	POST			

Missing data estimates are included in columns: Average=1,2,3,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25

Michigan State University

Comparison of commercial programs in Enlist E3 soybean

Trial ID: SOY05-25

Protocol ID: SOY05-25 Location: Campus, C-14 Trial Year: 2025

Study Director: Stiles, Sprague Sponsor Contact:

Investigator: Christy Sprague

Rating Date	Jul-18-2025	Oct-3-2025	Oct-3-2025	Oct-3-2025	Oct-5-2025	Oct-5-2025
Rating Type	control	control	control	control	moisture	yield
Rating Unit	%	%	%	%	%	bu/A
Crop Type, Code					C, GLXMA	C, GLXMA
Pest Code	ABUTH	ANGR	CHEAL	AMBEL		
Treatment Appl. Interval	28 DA-C	105 DA-C	105 DA-C	105 DA-C	107 DA-C	107 DA-C
Number of Decimals	0	0	0	0	1	1
Trt Treatment	Rate	Appl	Appl			
No. Name	Rate Unit	Code	Timing			
25 Preview 2.1	21 fl oz/a	A	PRE	100	100	100
Satellite Hydrocap	2 pt/a	A	PRE			92
UPH-2015-004-C	17.6 fl oz/a	C	POST			10.2
Vacciplant	14 fl oz/a	C	POST			47.4
AMS	3 lb/a	C	POST			
LSD P=.05				4.0	7.0	3.7
Standard Deviation				2.8	4.9	2.6
CV				2.98	5.34	2.78
					8.0	0.32
					5.6	7.87
					0.23	5.59
					2.27	11.62

Missing data estimates are included in columns: Average=1,2,3,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25