

**Multi-system comparison of XtendFlex and Enlist E3 soybean - II**

Trial ID: SOY05-22 Study Dir.: Sprague, Stiles, Powell  
 Conducted: Campus, T-11 Investigator:

**Planting Date:** May-12-2022 **Row Spacing:** 30 "  
**Variety:** See comments **No. of Reps:** 1  
**Population:** 150000 seeds/A **% OM:** 2.2  
**Soil Type:** L loam **pH:** 6.4  
**Plot Size:** 10 X 400 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 grasses	mainly foxtail species
2	CHEAL	common lambsquarters	Chenopodium album
3	AMAPO	Powell amaranth	Amaranthus powellii
4	AMBEL	common ragweed	Ambrosia artemisiifolia
5	ABUTH	velvetleaf	Abutilon theophrasti
Crop	Code	Common Name	
1	GLXMA	Soybean	

**Application Description**

	A	B	C
<b>Application Timing:</b>	PRE	POST	LPOS
<b>Date Treated:</b>	May-12-2022	Jun-22-2022	Jul-7-2022
<b>Time Treated:</b>	2:00 PM	8:20 AM	8:45 AM
<b>% Cloud Cover:</b>	20	5	20
<b>Air Temp., Unit:</b>	87 F	78 F	72 F
<b>% Relative Humidity:</b>	20	57	64
<b>Wind Speed/Unit/Dir:</b>	4 MPH S	7 MPH W	1 MPH SW
<b>Soil Temp, Unit:</b>	80 F	79 F	73 F
<b>Leaf Moist/Dew Presence (Y/N):</b>	N	N	N
<b>Soil Moist:</b>	5	5	3

**Crop Stage at Each Application**

	A	B	C
<b>Crop 1 Name:</b>	GLXMA	GLXMA	GLXMA
<b>Height:</b>		8-10 " (9)	15-20 " (18)
<b>Stage:</b>		V4	R1

**Weed Stage at Each Application**

	A	B	C
<b>Weed 1 Name:</b>	ANGR	ANGR	ANGR
<b>Height:</b>		7-12 " (8)	3-10 " (6)
<b>Stage:</b>		3-11 (7L)	5L
<b>Weed 2 Name:</b>	CHEAL	CHEAL	CHEAL
<b>Height:</b>		2 "	
<b>Stage:</b>		8L	
<b>Weed 3 Name:</b>	AMAPO	AMAPO	AMAPO
<b>Height:</b>		2 "	
<b>Stage:</b>		6L	
<b>Weed 4 Name:</b>	AMBEL	AMBEL	AMBEL
<b>Height:</b>		3 "	
<b>Stage:</b>		6L	
<b>Weed 5 Name:</b>	ABUTH	ABUTH	ABUTH
<b>Height:</b>		1 "	
<b>Stage:</b>		2L	

**Weed Density**

	1	2	3	4	5
<b>Date:</b>	Jun-22-2022	Jun-22-2022	Jun-22-2022	Jun-22-2022	Jun-22-2022
<b>Weed Name:</b>	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
<b>Density:</b>	15 FT2	2 FT2	1 FT2	3 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/TTI	11003	20.0 "	20.0 "	120.0 "	19 GAL/AC	WATER	
B	CUB	3.8 MPH	AIXR/TTI	11003	26.0 "	20.0 "	120.0 "	19 GAL/AC	WATER	
C	CUB	3.8 MPH	AIXR	11003	27.0 "	20.0 "	120.0 "	19 GAL/AC	WATER	30 PSI

**Comments:** Soybean varieties include: XtendFlex soybean - AG21XF1, AG24XF1, AG25XF1 Enlist E3 soybean - P21A53E, P24T35E; P25A26E

**Multi-system comparison of XtendFlex and Enlist E3 soybean - II**

Trial ID: SOY05-22                      Study Dir.: Sprague, Stiles, Powell

Conducted: Campus, T-11              Investigator:

Nozzles: XtendiMax treatments = TTI nozzles at 25 PSI; all others were AI XR nozzles at 30 PSI

Michigan State University

Multi-system comparison of XtendFlex and Enlist E3 soybean - II

Trial ID: SOY05-22 Cooperator Trial ID:  
 Protocol ID: SOY05-22 Location: Campus, T-11 Trial Year: 2022  
 Project ID: Project ID 2: Project ID 3:  
 Study Director: Sprague, Stiles, Powell Sponsor Contact:  
 Investigator (Creator): Christy Sprague

Pest Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Type, Code	C, GLXMA				
Rating Date	May-26-2022	May-26-2022	May-26-2022	May-26-2022	May-26-2022
Rating Type	injury	control	control	control	control
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Appl Timing	Code						
1	'Asgrow 21XF1' XtendFlex					3	100	100	100	100	100
	TTI Nozzles				A						
	Mauler	8 fl oz/a	PRE		A						
	Warrant	3 pt/a	PRE		A						
	XtendiMax	22 fl oz/a	PRE		A						
	Vapor Grip	20 fl oz/a	PRE		A						
	Intact	0.5 % v/v	PRE		A						
	XtendiMax	22 fl oz/a	POST		B						
	Roundup PowerMax 3	30 fl oz/a	POST		B						
	Warrant	3 pt/a	POST		B						
	Class Act Ridion	1 % v/v	POST		B						
	Vapor Grip	20 fl oz/a	POST		B						
	Intact	0.5 % v/v	POST		B						
	Liberty	32 fl oz/a	LPOS		C						
	N-PAK AMS Liquid	2.5 % v/v	LPOS		C						
2	'Asgrow 24XF1' XtendFlex					7	100	100	100	100	100
	TTI Nozzles				A						
	Mauler	8 fl oz/a	PRE		A						
	Warrant	3 pt/a	PRE		A						
	XtendiMax	22 fl oz/a	PRE		A						
	Vapor Grip	20 fl oz/a	PRE		A						
	Intact	0.5 % v/v	PRE		A						
	XtendiMax	22 fl oz/a	POST		B						
	Roundup PowerMax 3	30 fl oz/a	POST		B						
	Warrant	3 pt/a	POST		B						
	Class Act Ridion	1 % v/v	POST		B						
	Vapor Grip	20 fl oz/a	POST		B						
	Intact	0.5 % v/v	POST		B						
	Liberty	32 fl oz/a	LPOS		C						
	N-PAK AMS Liquid	2.5 % v/v	LPOS		C						
3	'Asgrow 25XF1' XtendFlex					7	100	100	100	100	100
	TTI Nozzles				A						
	Mauler	8 fl oz/a	PRE		A						
	Warrant	3 pt/a	PRE		A						
	XtendiMax	22 fl oz/a	PRE		A						
	Vapor Grip	20 fl oz/a	PRE		A						
	Intact	0.5 % v/v	PRE		A						
	XtendiMax	22 fl oz/a	POST		B						
	Roundup PowerMax 3	30 fl oz/a	POST		B						
	Warrant	3 pt/a	POST		B						
	Class Act Ridion	1 % v/v	POST		B						
	Vapor Grip	20 fl oz/a	POST		B						
	Intact	0.5 % v/v	POST		B						
	Liberty	32 fl oz/a	LPOS		C						
	N-PAK AMS Liquid	2.5 % v/v	LPOS		C						

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33 because error mean square = 0.

Michigan State University

Multi-system comparison of XtendFlex and Enlist E3 soybean - II

Trial ID: SOY05-22 Cooperator Trial ID:  
 Protocol ID: SOY05-22 Location: Campus, T-11 Trial Year: 2022  
 Project ID: Project ID 2: Project ID 3:  
 Study Director: Sprague, Stiles, Powell Sponsor Contact:  
 Investigator (Creator): Christy Sprague

Pest Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Type, Code	C, GLXMA				
Rating Date	May-26-2022	May-26-2022	May-26-2022	May-26-2022	May-26-2022
Rating Type	injury	control	control	control	control
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Appl Timing	Code					
4	'Pioneer 21A53E' Enlist E3	0				100	100	100	100	100
	Enlist One	32 fl oz/a	PRE	A						
	Sonic	4 oz/a	PRE	A						
	Enlist One	32 fl oz/a	POST	B						
	Durango DMA	36 fl oz/a	POST	B						
	Dual II Magnum	1 pt/a	POST	B						
	N-PAK AMS Liquid	2.5 % v/v	POST	B						
	Liberty	32 fl oz/a	LPOS	C						
	N-PAK AMS Liquid	2.5 % v/v	LPOS	C						
5	'Pioneer 24T35E' Enlist E3	0				100	100	100	100	100
	Enlist One	32 fl oz/a	PRE	A						
	Sonic	4 oz/a	PRE	A						
	Enlist One	32 fl oz/a	POST	B						
	Durango DMA	36 fl oz/a	POST	B						
	Dual II Magnum	1 pt/a	POST	B						
	N-PAK AMS Liquid	2.5 % v/v	POST	B						
	Liberty	32 fl oz/a	LPOS	C						
	N-PAK AMS Liquid	2.5 % v/v	LPOS	C						
6	'Pioneer 25A26E' Enlist E3	0				100	100	100	100	100
	Enlist One	32 fl oz/a	PRE	A						
	Sonic	4 oz/a	PRE	A						
	Enlist One	32 fl oz/a	POST	B						
	Durango DMA	36 fl oz/a	POST	B						
	Dual II Magnum	1 pt/a	POST	B						
	N-PAK AMS Liquid	2.5 % v/v	POST	B						
	Liberty	32 fl oz/a	LPOS	C						
	N-PAK AMS Liquid	2.5 % v/v	LPOS	C						
	LSD P=.05	.	.	.	.	.	.	.	.	.
	Standard Deviation	.	.	.	.	.	.	.	.	.
	CV	.	.	.	.	.	.	.	.	.

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33 because error mean square = 0.

Michigan State University

Multi-system comparison of XtendFlex and Enlist E3 soybean - II

Trial ID: SOY05-22 Cooperator Trial ID:  
 Protocol ID: SOY05-22 Location: Campus, T-11 Trial Year: 2022  
 Project ID: Project ID 2: Project ID 3:  
 Study Director: Sprague, Stiles, Powell Sponsor Contact:  
 Investigator (Creator): Christy Sprague

Pest Code	C, GLXMA	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Type, Code	Jun-21-2022	Jun-21-2022	Jun-21-2022	Jun-21-2022	Jun-21-2022	Jun-21-2022
Rating Date	injury	control	control	control	control	control
Rating Type	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100
Rating Unit/Min/Max	40 DA-A	40 DA-A	40 DA-A	40 DA-A	40 DA-A	40 DA-A
Trt-Eval Interval	0	0	0	0	0	0
Number of Decimals						

Trt No.	Treatment Name	Rate	Appl Unit	Appl Timing	Code					
1	'Asgrow 21XF1' XtendFlex	0	88	100	80	88	95			
	TTI Nozzles									
	Mauler	8 fl oz/a	PRE	A						
	Warrant	3 pt/a	PRE	A						
	XtendiMax	22 fl oz/a	PRE	A						
	Vapor Grip	20 fl oz/a	PRE	A						
	Intact	0.5 % v/v	PRE	A						
	XtendiMax	22 fl oz/a	POST	B						
	Roundup PowerMax 3	30 fl oz/a	POST	B						
	Warrant	3 pt/a	POST	B						
	Class Act Ridion	1 % v/v	POST	B						
	Vapor Grip	20 fl oz/a	POST	B						
	Intact	0.5 % v/v	POST	B						
	Liberty	32 fl oz/a	LPOS	C						
	N-PAK AMS Liquid	2.5 % v/v	LPOS	C						
2	'Asgrow 24XF1' XtendFlex	0	88	100	85	88	95			
	TTI Nozzles									
	Mauler	8 fl oz/a	PRE	A						
	Warrant	3 pt/a	PRE	A						
	XtendiMax	22 fl oz/a	PRE	A						
	Vapor Grip	20 fl oz/a	PRE	A						
	Intact	0.5 % v/v	PRE	A						
	XtendiMax	22 fl oz/a	POST	B						
	Roundup PowerMax 3	30 fl oz/a	POST	B						
	Warrant	3 pt/a	POST	B						
	Class Act Ridion	1 % v/v	POST	B						
	Vapor Grip	20 fl oz/a	POST	B						
	Intact	0.5 % v/v	POST	B						
	Liberty	32 fl oz/a	LPOS	C						
	N-PAK AMS Liquid	2.5 % v/v	LPOS	C						
3	'Asgrow 25XF1' XtendFlex	0	88	100	85	88	85			
	TTI Nozzles									
	Mauler	8 fl oz/a	PRE	A						
	Warrant	3 pt/a	PRE	A						
	XtendiMax	22 fl oz/a	PRE	A						
	Vapor Grip	20 fl oz/a	PRE	A						
	Intact	0.5 % v/v	PRE	A						
	XtendiMax	22 fl oz/a	POST	B						
	Roundup PowerMax 3	30 fl oz/a	POST	B						
	Warrant	3 pt/a	POST	B						
	Class Act Ridion	1 % v/v	POST	B						
	Vapor Grip	20 fl oz/a	POST	B						
	Intact	0.5 % v/v	POST	B						
	Liberty	32 fl oz/a	LPOS	C						
	N-PAK AMS Liquid	2.5 % v/v	LPOS	C						

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33 because error mean square = 0.

Michigan State University

Multi-system comparison of XtendFlex and Enlist E3 soybean - II

Trial ID: SOY05-22 Cooperator Trial ID:  
 Protocol ID: SOY05-22 Location: Campus, T-11 Trial Year: 2022  
 Project ID: Project ID 2: Project ID 3:  
 Study Director: Sprague, Stiles, Powell Sponsor Contact:  
 Investigator (Creator): Christy Sprague

Pest Code		ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Type, Code	C, GLXMA					
Rating Date	Jun-21-2022	Jun-21-2022	Jun-21-2022	Jun-21-2022	Jun-21-2022	Jun-21-2022
Rating Type	injury	control	control	control	control	control
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Trt-Eval Interval	40 DA-A	40 DA-A	40 DA-A	40 DA-A	40 DA-A	40 DA-A
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Appl Timing	Code					
4	'Pioneer 21A53E' Enlist E3	0				78	100	88	85	90
	Enlist One	32 fl oz/a	PRE	A						
	Sonic	4 oz/a	PRE	A						
	Enlist One	32 fl oz/a	POST	B						
	Durango DMA	36 fl oz/a	POST	B						
	Dual II Magnum	1 pt/a	POST	B						
	N-PAK AMS Liquid	2.5 % v/v	POST	B						
	Liberty	32 fl oz/a	LPOS	C						
	N-PAK AMS Liquid	2.5 % v/v	LPOS	C						
5	'Pioneer 24T35E' Enlist E3	0				75	100	88	88	90
	Enlist One	32 fl oz/a	PRE	A						
	Sonic	4 oz/a	PRE	A						
	Enlist One	32 fl oz/a	POST	B						
	Durango DMA	36 fl oz/a	POST	B						
	Dual II Magnum	1 pt/a	POST	B						
	N-PAK AMS Liquid	2.5 % v/v	POST	B						
	Liberty	32 fl oz/a	LPOS	C						
	N-PAK AMS Liquid	2.5 % v/v	LPOS	C						
6	'Pioneer 25A26E' Enlist E3	0				75	100	85	85	90
	Enlist One	32 fl oz/a	PRE	A						
	Sonic	4 oz/a	PRE	A						
	Enlist One	32 fl oz/a	POST	B						
	Durango DMA	36 fl oz/a	POST	B						
	Dual II Magnum	1 pt/a	POST	B						
	N-PAK AMS Liquid	2.5 % v/v	POST	B						
	Liberty	32 fl oz/a	LPOS	C						
	N-PAK AMS Liquid	2.5 % v/v	LPOS	C						
	LSD P=.05	.	.	.	.	.	.	.	.	.
	Standard Deviation	.	.	.	.	.	.	.	.	.
	CV	.	.	.	.	.	.	.	.	.

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33 because error mean square = 0.

Michigan State University

Multi-system comparison of XtendFlex and Enlist E3 soybean - II  
 Trial ID: SOY05-22 Cooperator Trial ID:  
 Protocol ID: SOY05-22 Location: Campus, T-11 Trial Year: 2022  
 Project ID: Project ID 2: Project ID 3:  
 Study Director: Sprague, Stiles, Powell Sponsor Contact:  
 Investigator (Creator): Christy Sprague

Pest Code	ANGR CHEAL AMAPO AMBEL ABUTH						C, GLXMA
Crop Type, Code	C, GLXMA						C, GLXMA
Rating Date	Jul-6-2022	Jul-6-2022	Jul-6-2022	Jul-6-2022	Jul-6-2022	Jul-6-2022	Jul-20-2022
Rating Type	injury	control	control	control	control	control	injury
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	13 DA-C
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Appl Timing	Appl Code	3	100	100	100	100	100	0
1	'Asgrow 21XF1' XtendFlex					3	100	100	100	100	100	0
	TTI Nozzles				A							
	Mauler	8 fl oz/a	PRE		A							
	Warrant	3 pt/a	PRE		A							
	XtendiMax	22 fl oz/a	PRE		A							
	Vapor Grip	20 fl oz/a	PRE		A							
	Intact	0.5 % v/v	PRE		A							
	XtendiMax	22 fl oz/a	POST		B							
	Roundup PowerMax 3	30 fl oz/a	POST		B							
	Warrant	3 pt/a	POST		B							
	Class Act Ridion	1 % v/v	POST		B							
	Vapor Grip	20 fl oz/a	POST		B							
	Intact	0.5 % v/v	POST		B							
	Liberty	32 fl oz/a	LPOS		C							
	N-PAK AMS Liquid	2.5 % v/v	LPOS		C							
2	'Asgrow 24XF1' XtendFlex					3	100	100	100	100	100	0
	TTI Nozzles				A							
	Mauler	8 fl oz/a	PRE		A							
	Warrant	3 pt/a	PRE		A							
	XtendiMax	22 fl oz/a	PRE		A							
	Vapor Grip	20 fl oz/a	PRE		A							
	Intact	0.5 % v/v	PRE		A							
	XtendiMax	22 fl oz/a	POST		B							
	Roundup PowerMax 3	30 fl oz/a	POST		B							
	Warrant	3 pt/a	POST		B							
	Class Act Ridion	1 % v/v	POST		B							
	Vapor Grip	20 fl oz/a	POST		B							
	Intact	0.5 % v/v	POST		B							
	Liberty	32 fl oz/a	LPOS		C							
	N-PAK AMS Liquid	2.5 % v/v	LPOS		C							
3	'Asgrow 25XF1' XtendFlex					3	100	100	100	100	100	0
	TTI Nozzles				A							
	Mauler	8 fl oz/a	PRE		A							
	Warrant	3 pt/a	PRE		A							
	XtendiMax	22 fl oz/a	PRE		A							
	Vapor Grip	20 fl oz/a	PRE		A							
	Intact	0.5 % v/v	PRE		A							
	XtendiMax	22 fl oz/a	POST		B							
	Roundup PowerMax 3	30 fl oz/a	POST		B							
	Warrant	3 pt/a	POST		B							
	Class Act Ridion	1 % v/v	POST		B							
	Vapor Grip	20 fl oz/a	POST		B							
	Intact	0.5 % v/v	POST		B							
	Liberty	32 fl oz/a	LPOS		C							
	N-PAK AMS Liquid	2.5 % v/v	LPOS		C							

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33 because error mean square = 0.

Michigan State University

Multi-system comparison of XtendFlex and Enlist E3 soybean - II  
 Trial ID: SOY05-22 Cooperator Trial ID:  
 Protocol ID: SOY05-22 Location: Campus, T-11 Trial Year: 2022  
 Project ID: Project ID 2: Project ID 3:  
 Study Director: Sprague, Stiles, Powell Sponsor Contact:  
 Investigator (Creator): Christy Sprague

Pest Code		ANGR	CHEAL	AMAPO	AMBEL	ABUTH					
Crop Type, Code	C, GLXMA						C, GLXMA				
Rating Date	Jul-6-2022	Jul-6-2022	Jul-6-2022	Jul-6-2022	Jul-6-2022	Jul-6-2022	Jul-20-2022				
Rating Type	injury	control	control	control	control	control	injury				
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100				
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	13 DA-C				
Number of Decimals	0	0	0	0	0	0	0				
Trt No.	Treatment Name	Rate	Appl Unit	Appl Timing	Code						
4	'Pioneer 21A53E' Enlist E3	10				100	100	100	100	100	0
	Enlist One	32 fl oz/a	PRE	A							
	Sonic	4 oz/a	PRE	A							
	Enlist One	32 fl oz/a	POST	B							
	Durango DMA	36 fl oz/a	POST	B							
	Dual II Magnum	1 pt/a	POST	B							
	N-PAK AMS Liquid	2.5 % v/v	POST	B							
	Liberty	32 fl oz/a	LPOS	C							
	N-PAK AMS Liquid	2.5 % v/v	LPOS	C							
5	'Pioneer 24T35E' Enlist E3	7				100	100	100	100	100	0
	Enlist One	32 fl oz/a	PRE	A							
	Sonic	4 oz/a	PRE	A							
	Enlist One	32 fl oz/a	POST	B							
	Durango DMA	36 fl oz/a	POST	B							
	Dual II Magnum	1 pt/a	POST	B							
	N-PAK AMS Liquid	2.5 % v/v	POST	B							
	Liberty	32 fl oz/a	LPOS	C							
	N-PAK AMS Liquid	2.5 % v/v	LPOS	C							
6	'Pioneer 25A26E' Enlist E3	5				100	100	100	100	100	0
	Enlist One	32 fl oz/a	PRE	A							
	Sonic	4 oz/a	PRE	A							
	Enlist One	32 fl oz/a	POST	B							
	Durango DMA	36 fl oz/a	POST	B							
	Dual II Magnum	1 pt/a	POST	B							
	N-PAK AMS Liquid	2.5 % v/v	POST	B							
	Liberty	32 fl oz/a	LPOS	C							
	N-PAK AMS Liquid	2.5 % v/v	LPOS	C							
	LSD P=.05	.	.	.	.	.	.	.	.	.	.
	Standard Deviation	.	.	.	.	.	.	.	.	.	.
	CV	.	.	.	.	.	.	.	.	.	.

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33 because error mean square = 0.



Michigan State University

Multi-system comparison of XtendFlex and Enlist E3 soybean - II

Trial ID: SOY05-22 Cooperator Trial ID:  
 Protocol ID: SOY05-22 Location: Campus, T-11 Trial Year: 2022  
 Project ID: Project ID 2: Project ID 3:  
 Study Director: Sprague, Stiles, Powell Sponsor Contact:  
 Investigator (Creator): Christy Sprague

Pest Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH	ANGR
Crop Type, Code						
Rating Date	Jul-20-2022	Jul-20-2022	Jul-20-2022	Jul-20-2022	Jul-20-2022	Oct-10-2022
Rating Type	control	control	control	control	control	control
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Trt-Eval Interval	13 DA-C	13 DA-C	13 DA-C	13 DA-C	13 DA-C	95 DA-C
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Appl Timing	Appl Code					
1	'Asgrow 21XF1' XtendFlex	100								
	TTI Nozzles				A					
	Mauler	8 fl oz/a	PRE		A					
	Warrant	3 pt/a	PRE		A					
	XtendiMax	22 fl oz/a	PRE		A					
	Vapor Grip	20 fl oz/a	PRE		A					
	Intact	0.5 % v/v	PRE		A					
	XtendiMax	22 fl oz/a	POST		B					
	Roundup PowerMax 3	30 fl oz/a	POST		B					
	Warrant	3 pt/a	POST		B					
	Class Act Ridion	1 % v/v	POST		B					
	Vapor Grip	20 fl oz/a	POST		B					
	Intact	0.5 % v/v	POST		B					
	Liberty	32 fl oz/a	LPOS		C					
	N-PAK AMS Liquid	2.5 % v/v	LPOS		C					
2	'Asgrow 24XF1' XtendFlex	100								
	TTI Nozzles				A					
	Mauler	8 fl oz/a	PRE		A					
	Warrant	3 pt/a	PRE		A					
	XtendiMax	22 fl oz/a	PRE		A					
	Vapor Grip	20 fl oz/a	PRE		A					
	Intact	0.5 % v/v	PRE		A					
	XtendiMax	22 fl oz/a	POST		B					
	Roundup PowerMax 3	30 fl oz/a	POST		B					
	Warrant	3 pt/a	POST		B					
	Class Act Ridion	1 % v/v	POST		B					
	Vapor Grip	20 fl oz/a	POST		B					
	Intact	0.5 % v/v	POST		B					
	Liberty	32 fl oz/a	LPOS		C					
	N-PAK AMS Liquid	2.5 % v/v	LPOS		C					
3	'Asgrow 25XF1' XtendFlex	100								
	TTI Nozzles				A					
	Mauler	8 fl oz/a	PRE		A					
	Warrant	3 pt/a	PRE		A					
	XtendiMax	22 fl oz/a	PRE		A					
	Vapor Grip	20 fl oz/a	PRE		A					
	Intact	0.5 % v/v	PRE		A					
	XtendiMax	22 fl oz/a	POST		B					
	Roundup PowerMax 3	30 fl oz/a	POST		B					
	Warrant	3 pt/a	POST		B					
	Class Act Ridion	1 % v/v	POST		B					
	Vapor Grip	20 fl oz/a	POST		B					
	Intact	0.5 % v/v	POST		B					
	Liberty	32 fl oz/a	LPOS		C					
	N-PAK AMS Liquid	2.5 % v/v	LPOS		C					

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33 because error mean square = 0.

Michigan State University

Multi-system comparison of XtendFlex and Enlist E3 soybean - II

Trial ID: SOY05-22 Cooperator Trial ID:  
 Protocol ID: SOY05-22 Location: Campus, T-11 Trial Year: 2022  
 Project ID: Project ID 2: Project ID 3:  
 Study Director: Sprague, Stiles, Powell Sponsor Contact:  
 Investigator (Creator): Christy Sprague

Pest Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH	ANGR
Crop Type, Code						
Rating Date	Jul-20-2022	Jul-20-2022	Jul-20-2022	Jul-20-2022	Jul-20-2022	Oct-10-2022
Rating Type	control	control	control	control	control	control
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Trt-Eval Interval	13 DA-C	13 DA-C	13 DA-C	13 DA-C	13 DA-C	95 DA-C
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Appl Timing	Code					
4	'Pioneer 21A53E' Enlist E3					100	100	100	100	100
	Enlist One	32 fl oz/a		PRE	A					
	Sonic	4 oz/a		PRE	A					
	Enlist One	32 fl oz/a		POST	B					
	Durango DMA	36 fl oz/a		POST	B					
	Dual II Magnum	1 pt/a		POST	B					
	N-PAK AMS Liquid	2.5 % v/v		POST	B					
	Liberty	32 fl oz/a		LPOS	C					
	N-PAK AMS Liquid	2.5 % v/v		LPOS	C					
5	'Pioneer 24T35E' Enlist E3					100	100	100	100	100
	Enlist One	32 fl oz/a		PRE	A					
	Sonic	4 oz/a		PRE	A					
	Enlist One	32 fl oz/a		POST	B					
	Durango DMA	36 fl oz/a		POST	B					
	Dual II Magnum	1 pt/a		POST	B					
	N-PAK AMS Liquid	2.5 % v/v		POST	B					
	Liberty	32 fl oz/a		LPOS	C					
	N-PAK AMS Liquid	2.5 % v/v		LPOS	C					
6	'Pioneer 25A26E' Enlist E3					100	100	100	100	100
	Enlist One	32 fl oz/a		PRE	A					
	Sonic	4 oz/a		PRE	A					
	Enlist One	32 fl oz/a		POST	B					
	Durango DMA	36 fl oz/a		POST	B					
	Dual II Magnum	1 pt/a		POST	B					
	N-PAK AMS Liquid	2.5 % v/v		POST	B					
	Liberty	32 fl oz/a		LPOS	C					
	N-PAK AMS Liquid	2.5 % v/v		LPOS	C					
	LSD P=.05					.	.	.	.	.
	Standard Deviation					.	.	.	.	.
	CV					.	.	.	.	.

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33 because error mean square = 0.

Michigan State University

Multi-system comparison of XtendFlex and Enlist E3 soybean - II

Trial ID: SOY05-22 Cooperator Trial ID:  
 Protocol ID: SOY05-22 Location: Campus, T-11 Trial Year: 2022  
 Project ID: Project ID 2: Project ID 3:  
 Study Director: Sprague, Stiles, Powell Sponsor Contact:  
 Investigator (Creator): Christy Sprague

Pest Code	CHEAL	AMAPO	AMBEL	ABUTH	C, GLXMA	C, GLXMA
Crop Type, Code						
Rating Date	Oct-10-2022	Oct-10-2022	Oct-10-2022	Oct-10-2022	Oct-21-2022	Oct-21-2022
Rating Type	control	control	control	control	moisture	yield
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	bu/A, -, -
Trt-Eval Interval	95 DA-C	95 DA-C	95 DA-C	95 DA-C	106 DA-C	@ 13% moist
Number of Decimals	0	0	0	0	1	1

Trt No.	Treatment Name	Rate	Appl Unit	Appl Timing	Appl Code						
1	'Asgrow 21XF1' XtendFlex	100								16.7	44.2
	TTI Nozzles				A						
	Mauler	8 fl oz/a	PRE	A							
	Warrant	3 pt/a	PRE	A							
	XtendiMax	22 fl oz/a	PRE	A							
	Vapor Grip	20 fl oz/a	PRE	A							
	Intact	0.5 % v/v	PRE	A							
	XtendiMax	22 fl oz/a	POST	B							
	Roundup PowerMax 3	30 fl oz/a	POST	B							
	Warrant	3 pt/a	POST	B							
	Class Act Ridion	1 % v/v	POST	B							
	Vapor Grip	20 fl oz/a	POST	B							
	Intact	0.5 % v/v	POST	B							
	Liberty	32 fl oz/a	LPOS	C							
	N-PAK AMS Liquid	2.5 % v/v	LPOS	C							
2	'Asgrow 24XF1' XtendFlex	100								13.7	48.1
	TTI Nozzles				A						
	Mauler	8 fl oz/a	PRE	A							
	Warrant	3 pt/a	PRE	A							
	XtendiMax	22 fl oz/a	PRE	A							
	Vapor Grip	20 fl oz/a	PRE	A							
	Intact	0.5 % v/v	PRE	A							
	XtendiMax	22 fl oz/a	POST	B							
	Roundup PowerMax 3	30 fl oz/a	POST	B							
	Warrant	3 pt/a	POST	B							
	Class Act Ridion	1 % v/v	POST	B							
	Vapor Grip	20 fl oz/a	POST	B							
	Intact	0.5 % v/v	POST	B							
	Liberty	32 fl oz/a	LPOS	C							
	N-PAK AMS Liquid	2.5 % v/v	LPOS	C							
3	'Asgrow 25XF1' XtendFlex	100								14.7	47.9
	TTI Nozzles				A						
	Mauler	8 fl oz/a	PRE	A							
	Warrant	3 pt/a	PRE	A							
	XtendiMax	22 fl oz/a	PRE	A							
	Vapor Grip	20 fl oz/a	PRE	A							
	Intact	0.5 % v/v	PRE	A							
	XtendiMax	22 fl oz/a	POST	B							
	Roundup PowerMax 3	30 fl oz/a	POST	B							
	Warrant	3 pt/a	POST	B							
	Class Act Ridion	1 % v/v	POST	B							
	Vapor Grip	20 fl oz/a	POST	B							
	Intact	0.5 % v/v	POST	B							
	Liberty	32 fl oz/a	LPOS	C							
	N-PAK AMS Liquid	2.5 % v/v	LPOS	C							

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33 because error mean square = 0.

Michigan State University

Multi-system comparison of XtendFlex and Enlist E3 soybean - II

Trial ID: SOY05-22 Cooperator Trial ID:  
 Protocol ID: SOY05-22 Location: Campus, T-11 Trial Year: 2022  
 Project ID: Project ID 2: Project ID 3:  
 Study Director: Sprague, Stiles, Powell Sponsor Contact:  
 Investigator (Creator): Christy Sprague

Pest Code	CHEAL	AMAPO	AMBEL	ABUTH	C, GLXMA	C, GLXMA	
Crop Type, Code							
Rating Date	Oct-10-2022	Oct-10-2022	Oct-10-2022	Oct-10-2022	Oct-21-2022	Oct-21-2022	
Rating Type	control	control	control	control	moisture	yield	
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	bu/A, -, -	
Trt-Eval Interval	95 DA-C	95 DA-C	95 DA-C	95 DA-C	106 DA-C	@ 13% moist	
Number of Decimals	0	0	0	0	1	1	
Trt No.	Treatment Name	Rate	Appl Unit	Appl Timing	Code		
4	'Pioneer 21A53E' Enlist E3	100				13.8	47.8
	Enlist One	32 fl oz/a	PRE	A			
	Sonic	4 oz/a	PRE	A			
	Enlist One	32 fl oz/a	POST	B			
	Durango DMA	36 fl oz/a	POST	B			
	Dual II Magnum	1 pt/a	POST	B			
	N-PAK AMS Liquid	2.5 % v/v	POST	B			
	Liberty	32 fl oz/a	LPOS	C			
	N-PAK AMS Liquid	2.5 % v/v	LPOS	C			
5	'Pioneer 24T35E' Enlist E3	100				14.6	46.8
	Enlist One	32 fl oz/a	PRE	A			
	Sonic	4 oz/a	PRE	A			
	Enlist One	32 fl oz/a	POST	B			
	Durango DMA	36 fl oz/a	POST	B			
	Dual II Magnum	1 pt/a	POST	B			
	N-PAK AMS Liquid	2.5 % v/v	POST	B			
	Liberty	32 fl oz/a	LPOS	C			
	N-PAK AMS Liquid	2.5 % v/v	LPOS	C			
6	'Pioneer 25A26E' Enlist E3	100				12.9	52.5
	Enlist One	32 fl oz/a	PRE	A			
	Sonic	4 oz/a	PRE	A			
	Enlist One	32 fl oz/a	POST	B			
	Durango DMA	36 fl oz/a	POST	B			
	Dual II Magnum	1 pt/a	POST	B			
	N-PAK AMS Liquid	2.5 % v/v	POST	B			
	Liberty	32 fl oz/a	LPOS	C			
	N-PAK AMS Liquid	2.5 % v/v	LPOS	C			
	LSD P=.05	.	.	.	.	.	..
	Standard Deviation	.	.	.	.	.	..
	CV	.	.	.	.	.	..

Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33 because error mean square = 0.

Multi-system comparison of XtendFlex and Enlist E3 soybean - II  
 Trial ID: SOY05-22 Cooperator Trial ID:  
 Protocol ID: SOY05-22 Location: Campus, T-11 Trial Year: 2022  
 Project ID: Project ID 2: Project ID 3:  
 Study Director: Sprague, Stiles, Powell Sponsor Contact:  
 Investigator (Creator): Christy Sprague

Pest Code  
 Crop Type, Code C, GLXMA  
 Rating Date Oct-21-2022  
 Rating Type lbs/plot  
 Rating Unit/Min/Max  
 Trt-Eval Interval  
 Number of Decimals 1

Trt No.	Treatment Name	Rate	Appl Unit	Appl Timing	Appl Code	
1	'Asgrow 21XF1' XtendFlex					122.4
	TTI Nozzles				A	
	Mauler	8 fl oz/a	PRE		A	
	Warrant	3 pt/a	PRE		A	
	XtendiMax	22 fl oz/a	PRE		A	
	Vapor Grip	20 fl oz/a	PRE		A	
	Intact	0.5 % v/v	PRE		A	
	XtendiMax	22 fl oz/a	POST		B	
	Roundup PowerMax 3	30 fl oz/a	POST		B	
	Warrant	3 pt/a	POST		B	
	Class Act Ridion	1 % v/v	POST		B	
	Vapor Grip	20 fl oz/a	POST		B	
	Intact	0.5 % v/v	POST		B	
	Liberty	32 fl oz/a	LPOS		C	
	N-PAK AMS Liquid	2.5 % v/v	LPOS		C	
2	'Asgrow 24XF1' XtendFlex					128.6
	TTI Nozzles				A	
	Mauler	8 fl oz/a	PRE		A	
	Warrant	3 pt/a	PRE		A	
	XtendiMax	22 fl oz/a	PRE		A	
	Vapor Grip	20 fl oz/a	PRE		A	
	Intact	0.5 % v/v	PRE		A	
	XtendiMax	22 fl oz/a	POST		B	
	Roundup PowerMax 3	30 fl oz/a	POST		B	
	Warrant	3 pt/a	POST		B	
	Class Act Ridion	1 % v/v	POST		B	
	Vapor Grip	20 fl oz/a	POST		B	
	Intact	0.5 % v/v	POST		B	
	Liberty	32 fl oz/a	LPOS		C	
	N-PAK AMS Liquid	2.5 % v/v	LPOS		C	
3	'Asgrow 25XF1' XtendFlex					129.6
	TTI Nozzles				A	
	Mauler	8 fl oz/a	PRE		A	
	Warrant	3 pt/a	PRE		A	
	XtendiMax	22 fl oz/a	PRE		A	
	Vapor Grip	20 fl oz/a	PRE		A	
	Intact	0.5 % v/v	PRE		A	
	XtendiMax	22 fl oz/a	POST		B	
	Roundup PowerMax 3	30 fl oz/a	POST		B	
	Warrant	3 pt/a	POST		B	
	Class Act Ridion	1 % v/v	POST		B	
	Vapor Grip	20 fl oz/a	POST		B	
	Intact	0.5 % v/v	POST		B	
	Liberty	32 fl oz/a	LPOS		C	
	N-PAK AMS Liquid	2.5 % v/v	LPOS		C	

Multi-system comparison of XtendFlex and Enlist E3 soybean - II  
 Trial ID: SOY05-22 Cooperator Trial ID:  
 Protocol ID: SOY05-22 Location: Campus, T-11 Trial Year: 2022  
 Project ID: Project ID 2: Project ID 3:  
 Study Director: Sprague, Stiles, Powell Sponsor Contact:  
 Investigator (Creator): Christy Sprague

Pest Code  
 Crop Type, Code C, GLXMA  
 Rating Date Oct-21-2022  
 Rating Type lbs/plot  
 Rating Unit/Min/Max  
 Trt-Eval Interval  
 Number of Decimals 1

Trt No.	Treatment Name	Rate	Appl Unit	Appl Timing	Appl Code	
4	'Pioneer 21A53E' Enlist E3					127.9
	Enlist One	32 fl oz/a		PRE	A	
	Sonic	4 oz/a		PRE	A	
	Enlist One	32 fl oz/a		POST	B	
	Durango DMA	36 fl oz/a		POST	B	
	Dual II Magnum	1 pt/a		POST	B	
	N-PAK AMS Liquid	2.5 % v/v		POST	B	
	Liberty	32 fl oz/a		LPOS	C	
	N-PAK AMS Liquid	2.5 % v/v		LPOS	C	
5	'Pioneer 24T35E' Enlist E3					126.5
	Enlist One	32 fl oz/a		PRE	A	
	Sonic	4 oz/a		PRE	A	
	Enlist One	32 fl oz/a		POST	B	
	Durango DMA	36 fl oz/a		POST	B	
	Dual II Magnum	1 pt/a		POST	B	
	N-PAK AMS Liquid	2.5 % v/v		POST	B	
	Liberty	32 fl oz/a		LPOS	C	
	N-PAK AMS Liquid	2.5 % v/v		LPOS	C	
6	'Pioneer 25A26E' Enlist E3					139.0
	Enlist One	32 fl oz/a		PRE	A	
	Sonic	4 oz/a		PRE	A	
	Enlist One	32 fl oz/a		POST	B	
	Durango DMA	36 fl oz/a		POST	B	
	Dual II Magnum	1 pt/a		POST	B	
	N-PAK AMS Liquid	2.5 % v/v		POST	B	
	Liberty	32 fl oz/a		LPOS	C	
	N-PAK AMS Liquid	2.5 % v/v		LPOS	C	
	LSD P=.05					.
	Standard Deviation					.
	CV					.