

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

Trial ID: SOY09-21 Study Dir.: Sprague, Stiles, Powell  
 Conducted: Campus, C-18 Investigator: Christy Sprague

**Planting Date:** 5-11-21 **Row Spacing:** 30 "  
**Variety:** see treatments **No. of Reps:** 2  
**Population:** 155000 seeds/A **% OM:** 2.5  
**Soil Type:** CL clay loam **pH:** 7.4  
**Plot Size:** 10 X 165 FT **Study Design:** Randomized Complete Block (RCB)

**Tillage/Previous Crops:** Fall chisel plow; Spring soil finished twice  
**Fertilizer:**

**Crop and Weed Description**

Weed	Code	Common Name	Scientific Name
1	ANGR	annual grass	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
6	SINAR	wild mustard	Sinapis arvensis
Crop	Code	Common Name	
1	GLXMA	Soybean	

**Application Description**

	A	B
<b>Application Timing:</b>	PRE	PRE
<b>Date Treated:</b>	5-12-21	7-2-21
<b>Time Treated:</b>	10:30 AM	9:40 AM
<b>% Cloud Cover:</b>	25	5
<b>Air Temp., Unit:</b>	50 F	65 F
<b>% Relative Humidity:</b>	38	69
<b>Wind Speed/Unit/Dir:</b>	5.5 MPH N	7 MPH NW
<b>Soil Temp, Unit:</b>	62 F	67 F
<b>Leaf Moist/Dew Presence (Y/N):</b>	N	N
<b>Soil Moist:</b>	5	3

**Crop Stage at Each Application**

	A	B
<b>Crop 1 Name:</b>	GLXMA	GLXMA
<b>Height:</b>		12-13 " (12.5)
<b>Stage:</b>		V3

**Weed Stage at Each Application**

	A	B
<b>Weed 1 Name:</b>	ANGR	ANGR
<b>Height:</b>		1-12 " (6.5)
<b>Stage:</b>		4L-10L (7L)
<b>Weed 2 Name:</b>	CHEAL	CHEAL
<b>Height:</b>		4-8 " (6)
<b>Stage:</b>		6L-14L (10L)
<b>Weed 3 Name:</b>	AMAPO	AMAPO
<b>Height:</b>		4-8 " (6)
<b>Stage:</b>		6L-12L (9L)
<b>Weed 4 Name:</b>	AMBEL	AMBEL
<b>Height:</b>		2-8 " (5)
<b>Stage:</b>		4L-10L (7L)
<b>Weed 5 Name:</b>	ABUTH	ABUTH
<b>Height:</b>		1-3 " (2)
<b>Stage:</b>		2L-6L (4L)
<b>Weed 6 Name:</b>	SINAR	SINAR
<b>Height:</b>		8-10 " (9)
<b>Stage:</b>		bolted

**Weed Density**

	1	2	3	4	5	6
<b>Date:</b>	7-2-21	7-2-21	7-2-21	7-2-21	7-2-21	7-2-21
<b>Weed Name:</b>	ANGR	CHEAL	AMAPO	AMBEL	ABUTH	SINAR
<b>Density:</b>	6 FT2	5 FT2	0.5 FT2	8 FT2	1 FT2	0.5 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 "	100.0 "	19 GAL/AC	WATER	
B	CUB	3.8 MPH	AIXR/TTI	11003	30.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	

**Comments:** TTI nozzles used at 25 PSI; AIXR nozzles used at 30 PSI. Common ragweed at this location is Group 2 (ALS) resistant.



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Pest Code	C, GLXMA								C, GLXMA			
Crop Type, Code	7-2-21								7-16-21			
Rating Date	injury control								injury control			
Rating Type	%								%			
Rating Unit	0 DA-B 0 DA-B 0 DA-B 0 DA-B 0 DA-B 0 DA-B 0 DA-B 0 DA-B								14 DA-B 14 DA-B 14 DA-B 14 DA-B			
Trt-Eval Interval												

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	0 DA-B	0 DA-B	0 DA-B	0 DA-B	0 DA-B	0 DA-B	0 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
6	'Pioneer 28T14E' Enlist E3				0	84	84	100	90	100	100	0	100	100	100
	6 AIXR Nozzle			A											
	6 Enlist One	32 fl oz/a		A											
	6 Sonic	6.4 oz/a		A											
	6 AIXR Nozzle			B											
	6 Dual II Magnum	1 pt/a		B											
	6 Enlist One	32 fl oz/a		B											
	6 Durango DMA	36 fl oz/a		B											
	6 AMSOL	2.5 % v/v		B											
7	'Pioneer 24T35E' Enlist E3				0	89	73	100	75	100	100	2	100	100	100
	7 AIXR Nozzle			A											
	7 Mauler	8 fl oz/a		A											
	7 MON 301668	30 fl oz/a		A											
	7 Enlist One	32 fl oz/a		A											
	7 AIXR Nozzle			B											
	7 MON 301668	30 fl oz/a		B											
	7 Enlist One	32 fl oz/a		B											
	7 Roundup PowerMax 3	30 fl oz/a		B											
	7 AMSOL	2.5 % v/v		B											
LSD P=.05					.	10.0	7.5	.	7.9	2.0	.	2.4	.	.	.
Standard Deviation					0.0	4.1	3.1	0.0	3.2	0.8	0.0	1.0	0.0	0.0	0.0
CV					0.0	4.64	3.39	0.0	3.52	0.8	0.0	48.8	0.0	0.0	0.0



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Pest Code	AMBEL	ABUTH	SINAR	C, GLXMA	ANGR	CHEAL	AMAPO	AMBEL	ABUTH	ANGR	CHEAL
Crop Type, Code											
Rating Date	7-16-21	7-16-21	7-16-21	7-30-21	7-30-21	7-30-21	7-30-21	7-30-21	7-30-21	9-24-21	9-24-21
Rating Type	control	control	control	injury	control	control	control	control	control	control	control
Rating Unit	%	%	%	%	%	%	%	%	%	%	%
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	84 DA-B	84 DA-B

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	AMBEL	ABUTH	SINAR	C, GLXMA	ANGR	CHEAL	AMAPO	AMBEL	ABUTH	ANGR	CHEAL
6	'Pioneer 28T14E' Enlist E3				100	100	100	0	100	100	100	100	100	100	100
	6 AIXR Nozzle			A											
	6 Enlist One	32 fl oz/a		A											
	6 Sonic	6.4 oz/a		A											
	6 AIXR Nozzle			B											
	6 Dual II Magnum	1 pt/a		B											
	6 Enlist One	32 fl oz/a		B											
	6 Durango DMA	36 fl oz/a		B											
	6 AMSOL	2.5 % v/v		B											
7	'Pioneer 24T35E' Enlist E3				100	100	100	3	100	100	100	100	100	100	100
	7 AIXR Nozzle			A											
	7 Mauler	8 fl oz/a		A											
	7 MON 301668	30 fl oz/a		A											
	7 Enlist One	32 fl oz/a		A											
	7 AIXR Nozzle			B											
	7 MON 301668	30 fl oz/a		B											
	7 Enlist One	32 fl oz/a		B											
	7 Roundup PowerMax 3	30 fl oz/a		B											
	7 AMSOL	2.5 % v/v		B											
	LSD P=.05							1.3							
	Standard Deviation				0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
	CV				0.0	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.0	0.0	0.0



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Pest Code	AMAPO AMBEL ABUTH SINAR							
Crop Type, Code	C, GLXMA C, GLXMA C, GLXMA							
Rating Date	9-24-21	9-24-21	9-24-21	9-24-21	10-11-21	10-11-21	10-18-21	
Rating Type	control	control	control	control	moisture	yield	lbs/plot	
Rating Unit	%	%	%	%	%	bu/A		
Trt-Eval Interval	84 DA-B	84 DA-B	84 DA-B	84 DA-B	101 DA-B	101 DA-B		

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	84 DA-B	84 DA-B	84 DA-B	84 DA-B	101 DA-B	101 DA-B	Total
6	'Pioneer 28T14E' Enlist E3				100	100	100	100	16.1	70.4	82.9
	6 AIXR Nozzle			A							
	6 Enlist One	32 fl oz/a	A								
	6 Sonic	6.4 oz/a	A								
	6 AIXR Nozzle			B							
	6 Dual II Magnum	1 pt/a	B								
	6 Enlist One	32 fl oz/a	B								
	6 Durango DMA	36 fl oz/a	B								
	6 AMSOL	2.5 % v/v	B								
7	'Pioneer 24T35E' Enlist E3				100	100	100	100	16.1	70.6	83.2
	7 AIXR Nozzle			A							
	7 Mauler	8 fl oz/a	A								
	7 MON 301668	30 fl oz/a	A								
	7 Enlist One	32 fl oz/a	A								
	7 AIXR Nozzle			B							
	7 MON 301668	30 fl oz/a	B								
	7 Enlist One	32 fl oz/a	B								
	7 Roundup PowerMax 3	30 fl oz/a	B								
	7 AMSOL	2.5 % v/v	B								
LSD P=.05									4.53	6.82	6.99
Standard Deviation					0.0	0.0	0.0	0.0	1.85	2.79	2.86
CV					0.0	0.0	0.0	0.0	11.77	4.01	3.51