

**Multi-system comparison of three different soybean trait platforms (XtendFlex, LLGT27, EnlistE3)**

Trial ID: SOY14-20 Study Dir.: Sprague, Powell, Stiles  
 Conducted: Campus, T-11 Investigator: Christy Sprague

**Planting Date:** May-26-2020 **Row Spacing:** 30 IN  
**Variety:** See Comments **No. of Reps:** 1  
**Population:** 156000 seeds/A **% OM:** 2.7  
**Soil Type:** L loam **pH:** 7.5  
**Plot Size:** 10 X 185 FT **Study Design:** Randomized Complete Block (RCB)

**Tillage/Previous Crops:** Fall chisel plow plowed; Spring disked and soil finished twice

**Fertilizer:**

**Crop and Weed Description**

Weed	Code	Common Name	Scientific Name
1	ANGR	mainly foxtail species	Annual grass
2	CHEAL	common lambsquarters	Chenopodium album
3	AMAPO	Powell amaranth	Amaranthus powellii
4	AMBEL	common ragweed	Ambrosia artemisiifolia
5	ABUTH	velvetleaf	Abutilon theophrasti
6	POROL	common purselane	Portulaca oleracea
Crop	Code	Common Name	
1	GLXMA	Soybean	

**Application Description**

	A	B
<b>Application Timing:</b>	PRE	POST
<b>Date Treated:</b>	May-26-2020	Jun-29-2020
<b>Time Treated:</b>	2:20 PM	3:25 PM
<b>% Cloud Cover:</b>	40	15
<b>Air Temp., Unit:</b>	93 F	84 F
<b>% Relative Humidity:</b>	65	46
<b>Wind Speed/Unit/Dir:</b>	5 mph S	4 mph SE
<b>Soil Temp, Unit:</b>	66 F	96 F
<b>Leaf Moist/Dew Presence (Y/N):</b>	5	5
<b>Soil Moist:</b>	5	5

**Crop Stage at Each Application**

	A	B
<b>Crop 1 Name:</b>	GLXMA	GLXMA
<b>Height:</b>		10 "
<b>Stage:</b>		V3

**Weed Stage at Each Application**

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

**Weed Density**

	1	2	3	4	5	6
<b>Date:</b>	Jun-29-2020	Jun-29-2020	Jun-29-2020	Jun-29-2020	Jun-29-2020	Jun-29-2020
<b>Weed Name:</b>	ANGR	CHEAL	AMAPO	AMBEL	ABUTH	POROL
<b>Density:</b>	8 FT2	1 FT2	6 FT2	4 FT2	2 FT2	1 FT2

**Application Equipment**

**Multi-system comparison of three different soybean trait platforms (XtendFlex, LLGT27, EnlistE3)**

Trial ID: SOY14-20

Study Dir.: Sprague, Powell, Stiles

Conducted: Campus, T-11

Investigator: Christy Sprague

<b>Appl</b>	<b>Sprayer Type</b>	<b>Ground Speed</b>	<b>Nozzle Type</b>	<b>Nozzle Size</b>	<b>Nozzle Height</b>	<b>Nozzle Spacing</b>	<b>Boom Width</b>	<b>Spray Volume</b>	<b>Carrier</b>	<b>Operation Pressure</b>
<b>A</b>	CUB	3.8 mph	AIXR	11003	20 "	20 "	120 "	19 GPA	WATER	30 psi
<b>B</b>	CUB	3.8 mph	TTI	11003	32 "	20 "	120 "	19 GPA	WATER	27 psi

**Comments:**

Varieties planted: XtendFlex - Asgrow 21XFO, Asgrow 23XFO, Asgrow G27XFO, Enlist E3 - Pioneer 22T86E, Pioneer 25T09E, Pioneer 28T14E, LLGT27 - Credeenz 2040, Credeenz 2360, Credeenz 2760. Off-target dicamba injury was observed on both the Enlist and LLGT27 soybean. Injury evaluations are a reflection of this damage which was leaf cupping and stunting.

## Multi-system comparison of three different soybean trait platforms (XtendFlex, LLGT27, EnlistE3)

Trial ID: SOY14-20

Location: Campus, T-11

Trial Year: 2020

Protocol ID: SOY14-20

Investigator (Creator): Christy Sprague

Project ID:

Study Director: Sprague, Powell, Stiles

Sponsor Contact:

Pest Code		ANGR	CHEAL	AMAPO	AMBEL
Crop Type, Code	C GLXMA				
Rating Date	Jun-29-2020	Jun-29-2020	Jun-29-2020	Jun-29-2020	Jun-29-2020
Rating Type	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 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	'Asgrow 21XF0' XtendFlex							0	88	90	100	100
	XtendiMax	2.9 L		22 fl oz/a		PRE	A					
	Warrant Ultra	3.45 L		3 pt/a		PRE	A					
	Intact	L		0.5 % v/v		PRE	A					
	Warrant	3 L		3 pt/a		POST	B					
	XtendiMax	2.9 L		22 fl oz/a		POST	B					
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
	Class Act Ridion	L		1 % v/v		POST	B					
	Intact	L		0.5 % v/v		POST	B					
2	'Asgrow 23XF0' XtendFlex							0	85	100	100	100
	XtendiMax	2.9 L		22 fl oz/a		PRE	A					
	Warrant Ultra	3.45 L		3 pt/a		PRE	A					
	Intact	L		0.5 % v/v		PRE	A					
	Warrant	3 L		3 pt/a		POST	B					
	XtendiMax	2.9 L		22 fl oz/a		POST	B					
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
	Class Act Ridion	L		1 % v/v		POST	B					
	Intact	L		0.5 % v/v		POST	B					
3	'Asgrow 27XF0' XtendFlex							0	88	100	100	100
	XtendiMax	2.9 L		22 fl oz/a		PRE	A					
	Warrant Ultra	3.45 L		3 pt/a		PRE	A					
	Intact	L		0.5 % v/v		PRE	A					
	Warrant	3 L		3 pt/a		POST	B					
	XtendiMax	2.9 L		22 fl oz/a		POST	B					
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
	Class Act Ridion	L		1 % v/v		POST	B					
	Intact	L		0.5 % v/v		POST	B					
4	'P22T86E' Enlist E3							0	75	100	100	85
	Enlist One	3.8 L		24 fl oz/a		PRE	A					
	Sonic	70 WG		4 oz/a		PRE	A					
	Dual II Magnum	7.64 L		1 pt/a		POST	B					
	Enlist One	3.8 L		24 fl oz/a		POST	B					
	Liberty	2.34 L		32 fl oz/a		POST	B					
	N-PAK AMS Liquid	L		2.5 % v/v		POST	B					
5	'P25T09E' Enlist E3							0	70	100	100	85
	Enlist One	3.8 L		24 fl oz/a		PRE	A					
	Sonic	70 WG		4 oz/a		PRE	A					
	Dual II Magnum	7.64 L		1 pt/a		POST	B					
	Enlist One	3.8 L		24 fl oz/a		POST	B					
	Liberty	2.34 L		32 fl oz/a		POST	B					
	N-PAK AMS Liquid	L		2.5 % v/v		POST	B					
6	'P28T14E' Enlist E3							0	70	100	100	85
	Enlist One	3.8 L		24 fl oz/a		PRE	A					
	Sonic	70 WG		4 oz/a		PRE	A					
	Dual II Magnum	7.64 L		1 pt/a		POST	B					
	Enlist One	3.8 L		24 fl oz/a		POST	B					
	Liberty	2.34 L		32 fl oz/a		POST	B					
	N-PAK AMS Liquid	L		2.5 % v/v		POST	B					

Multi-system comparison of three different soybean trait platforms (XtendFlex, LLGT27, EnlistE3)

Trial ID: SOY14-20 Location: Campus, T-11 Trial Year: 2020

Protocol ID: SOY14-20 Investigator (Creator): Christy Sprague

Project ID: Study Director: Sprague, Powell, Stiles

Sponsor Contact:

Pest Code					ANGR	CHEAL	AMAPO	AMBEL			
Crop Type, Code					C GLXMA						
Rating Date					Jun-29-2020	Jun-29-2020	Jun-29-2020	Jun-29-2020			
Rating Type					injury	control	control	control			
Rating Unit					percent	percent	percent	percent			
Trt-Eval Interval					34 DA-A	34 DA-A	34 DA-A	34 DA-A			
Number of Decimals					0	0	0	0			
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Timing	Appl Code					
7	'CZ 2040' LLGT27						5	95	100	100	100
	Alite 27	4	L	3 fl oz/a	PRE	A					
	Zidua SC	4.17	L	2.5 fl oz/a	PRE	A					
	Zidua SC	4.17	L	2.5 fl oz/a	POST	B					
	Liberty	2.34	L	32 fl oz/a	POST	B					
	Durango DMA	4	SL	36 fl oz/a	POST	B					
	N-PAK AMS Liquid		L	2.5 % v/v	POST	B					
8	'CZ 2360' LLGT27						5	95	100	100	100
	Alite 27	4	L	3 fl oz/a	PRE	A					
	Zidua SC	4.17	L	2.5 fl oz/a	PRE	A					
	Zidua SC	4.17	L	2.5 fl oz/a	POST	B					
	Liberty	2.34	L	32 fl oz/a	POST	B					
	Durango DMA	4	SL	36 fl oz/a	POST	B					
	N-PAK AMS Liquid		L	2.5 % v/v	POST	B					
9	'CZ 2760' LLGT27						5	95	100	100	100
	Alite 27	4	L	3 fl oz/a	PRE	A					
	Zidua SC	4.17	L	2.5 fl oz/a	PRE	A					
	Zidua SC	4.17	L	2.5 fl oz/a	POST	B					
	Liberty	2.34	L	32 fl oz/a	POST	B					
	Durango DMA	4	SL	36 fl oz/a	POST	B					
	N-PAK AMS Liquid		L	2.5 % v/v	POST	B					
	LSD P=.05						.	.	.	.	.
	Standard Deviation						.	.	.	.	.
	CV						.	.	.	.	.

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 Sponsor Contact:

Pest Code	ABUTH	C	GLXMA	ANGR	CHEAL	AMAPO	AMBEL
Crop Type, Code	Jun-29-2020	Jul-13-2020	Jul-13-2020	Jul-13-2020	Jul-13-2020	Jul-13-2020	Jul-13-2020
Rating Date	control	injury	control	control	control	control	control
Rating Type	percent	percent	percent	percent	percent	percent	percent
Rating Unit	34 DA-A	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Trt-Eval Interval	0	0	0	0	0	0	0
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code	ABUTH	C	GLXMA	ANGR	CHEAL	AMAPO	AMBEL
1	'Asgrow 21XF0' XtendFlex			70				0			98	100	100	100
	XtendiMax	2.9 L		22 fl oz/a		PRE	A							
	Warrant Ultra	3.45 L		3 pt/a		PRE	A							
	Intact	L		0.5 % v/v		PRE	A							
	Warrant	3 L		3 pt/a		POST	B							
	XtendiMax	2.9 L		22 fl oz/a		POST	B							
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B							
	Class Act Ridion	L		1 % v/v		POST	B							
	Intact	L		0.5 % v/v		POST	B							
2	'Asgrow 23XF0' XtendFlex			70				0			98	100	100	100
	XtendiMax	2.9 L		22 fl oz/a		PRE	A							
	Warrant Ultra	3.45 L		3 pt/a		PRE	A							
	Intact	L		0.5 % v/v		PRE	A							
	Warrant	3 L		3 pt/a		POST	B							
	XtendiMax	2.9 L		22 fl oz/a		POST	B							
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B							
	Class Act Ridion	L		1 % v/v		POST	B							
	Intact	L		0.5 % v/v		POST	B							
3	'Asgrow 27XF0' XtendFlex			70				0			98	100	100	100
	XtendiMax	2.9 L		22 fl oz/a		PRE	A							
	Warrant Ultra	3.45 L		3 pt/a		PRE	A							
	Intact	L		0.5 % v/v		PRE	A							
	Warrant	3 L		3 pt/a		POST	B							
	XtendiMax	2.9 L		22 fl oz/a		POST	B							
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B							
	Class Act Ridion	L		1 % v/v		POST	B							
	Intact	L		0.5 % v/v		POST	B							
4	'P22T86E' Enlist E3			90				15			98	100	100	100
	Enlist One	3.8 L		24 fl oz/a		PRE	A							
	Sonic	70 WG		4 oz/a		PRE	A							
	Dual II Magnum	7.64 L		1 pt/a		POST	B							
	Enlist One	3.8 L		24 fl oz/a		POST	B							
	Liberty	2.34 L		32 fl oz/a		POST	B							
	N-PAK AMS Liquid	L		2.5 % v/v		POST	B							
5	'P25T09E' Enlist E3			90				10			100	100	100	100
	Enlist One	3.8 L		24 fl oz/a		PRE	A							
	Sonic	70 WG		4 oz/a		PRE	A							
	Dual II Magnum	7.64 L		1 pt/a		POST	B							
	Enlist One	3.8 L		24 fl oz/a		POST	B							
	Liberty	2.34 L		32 fl oz/a		POST	B							
	N-PAK AMS Liquid	L		2.5 % v/v		POST	B							
6	'P28T14E' Enlist E3			85				10			95	100	100	100
	Enlist One	3.8 L		24 fl oz/a		PRE	A							
	Sonic	70 WG		4 oz/a		PRE	A							
	Dual II Magnum	7.64 L		1 pt/a		POST	B							
	Enlist One	3.8 L		24 fl oz/a		POST	B							
	Liberty	2.34 L		32 fl oz/a		POST	B							
	N-PAK AMS Liquid	L		2.5 % v/v		POST	B							

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 because error mean square = 0.

Multi-system comparison of three different soybean trait platforms (XtendFlex, LLGT27, EnlistE3)

Trial ID: SOY14-20 Location: Campus, T-11 Trial Year: 2020  
 Protocol ID: SOY14-20 Investigator (Creator): Christy Sprague  
 Project ID: Study Director: Sprague, Powell, Stiles  
 Sponsor Contact:

Pest Code	ABUTH		ANGR	CHEAL	AMAPO	AMBEL
Crop Type, Code	C GLXMA					
Rating Date	Jun-29-2020	Jul-13-2020	Jul-13-2020	Jul-13-2020	Jul-13-2020	Jul-13-2020
Rating Type	control	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	34 DA-A	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Appl Timing	Appl Code					
7	'CZ 2040' LLGT27							100	15	100	100	100
	Alite 27	4 L		3 fl oz/a		PRE	A					
	Zidua SC	4.17 L		2.5 fl oz/a		PRE	A					
	Zidua SC	4.17 L		2.5 fl oz/a		POST	B					
	Liberty	2.34 L		32 fl oz/a		POST	B					
	Durango DMA	4 SL		36 fl oz/a		POST	B					
	N-PAK AMS Liquid	L		2.5 % v/v		POST	B					
8	'CZ 2360' LLGT27							100	10	100	100	100
	Alite 27	4 L		3 fl oz/a		PRE	A					
	Zidua SC	4.17 L		2.5 fl oz/a		PRE	A					
	Zidua SC	4.17 L		2.5 fl oz/a		POST	B					
	Liberty	2.34 L		32 fl oz/a		POST	B					
	Durango DMA	4 SL		36 fl oz/a		POST	B					
	N-PAK AMS Liquid	L		2.5 % v/v		POST	B					
9	'CZ 2760' LLGT27							100	10	100	100	100
	Alite 27	4 L		3 fl oz/a		PRE	A					
	Zidua SC	4.17 L		2.5 fl oz/a		PRE	A					
	Zidua SC	4.17 L		2.5 fl oz/a		POST	B					
	Liberty	2.34 L		32 fl oz/a		POST	B					
	Durango DMA	4 SL		36 fl oz/a		POST	B					
	N-PAK AMS Liquid	L		2.5 % v/v		POST	B					
	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 because error mean square = 0.

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Trial ID: SOY14-20 Location: Campus, T-11 Trial Year: 2020  
 Protocol ID: SOY14-20 Investigator (Creator): Christy Sprague  
 Project ID: Study Director: Sprague, Powell, Stiles  
 Sponsor Contact:

Pest Code	ABUTH	POROL	C GLXMA	ANGR	CHEAL	AMAPO
Crop Type, Code	Jul-13-2020	Jul-13-2020	Jul-27-2020	Jul-27-2020	Jul-27-2020	Jul-27-2020
Rating Date	control	control	injury	control	control	control
Rating Type	percent	percent	percent	percent	percent	percent
Rating Unit	14 DA-B	14 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B
Trt-Eval Interval	0	0	0	0	0	0
Number of Decimals						

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Rate Unit	Appl Timing	Appl Code	ABUTH	POROL	C GLXMA	ANGR	CHEAL	AMAPO
1	'Asgrow 21XF0' XtendFlex							100	100	0	100	100	100
	XtendiMax	2.9 L		22 fl oz/a		PRE	A						
	Warrant Ultra	3.45 L		3 pt/a		PRE	A						
	Intact	L		0.5 % v/v		PRE	A						
	Warrant	3 L		3 pt/a		POST	B						
	XtendiMax	2.9 L		22 fl oz/a		POST	B						
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B						
	Class Act Ridion	L		1 % v/v		POST	B						
	Intact	L		0.5 % v/v		POST	B						
2	'Asgrow 23XF0' XtendFlex							98	100	0	100	100	100
	XtendiMax	2.9 L		22 fl oz/a		PRE	A						
	Warrant Ultra	3.45 L		3 pt/a		PRE	A						
	Intact	L		0.5 % v/v		PRE	A						
	Warrant	3 L		3 pt/a		POST	B						
	XtendiMax	2.9 L		22 fl oz/a		POST	B						
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B						
	Class Act Ridion	L		1 % v/v		POST	B						
	Intact	L		0.5 % v/v		POST	B						
3	'Asgrow 27XF0' XtendFlex							100	100	0	100	100	100
	XtendiMax	2.9 L		22 fl oz/a		PRE	A						
	Warrant Ultra	3.45 L		3 pt/a		PRE	A						
	Intact	L		0.5 % v/v		PRE	A						
	Warrant	3 L		3 pt/a		POST	B						
	XtendiMax	2.9 L		22 fl oz/a		POST	B						
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B						
	Class Act Ridion	L		1 % v/v		POST	B						
	Intact	L		0.5 % v/v		POST	B						
4	'P22T86E' Enlist E3							100	100	30	90	100	100
	Enlist One	3.8 L		24 fl oz/a		PRE	A						
	Sonic	70 WG		4 oz/a		PRE	A						
	Dual II Magnum	7.64 L		1 pt/a		POST	B						
	Enlist One	3.8 L		24 fl oz/a		POST	B						
	Liberty	2.34 L		32 fl oz/a		POST	B						
	N-PAK AMS Liquid	L		2.5 % v/v		POST	B						
5	'P25T09E' Enlist E3							100	100	30	98	100	100
	Enlist One	3.8 L		24 fl oz/a		PRE	A						
	Sonic	70 WG		4 oz/a		PRE	A						
	Dual II Magnum	7.64 L		1 pt/a		POST	B						
	Enlist One	3.8 L		24 fl oz/a		POST	B						
	Liberty	2.34 L		32 fl oz/a		POST	B						
	N-PAK AMS Liquid	L		2.5 % v/v		POST	B						
6	'P28T14E' Enlist E3							100	100	10	100	100	100
	Enlist One	3.8 L		24 fl oz/a		PRE	A						
	Sonic	70 WG		4 oz/a		PRE	A						
	Dual II Magnum	7.64 L		1 pt/a		POST	B						
	Enlist One	3.8 L		24 fl oz/a		POST	B						
	Liberty	2.34 L		32 fl oz/a		POST	B						
	N-PAK AMS Liquid	L		2.5 % v/v		POST	B						

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 because error mean square = 0.

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 Sponsor Contact:

Pest Code		ABUTH	POROL	C GLXMA	ANGR	CHEAL	AMAPO					
Crop Type, Code		Jul-13-2020	Jul-13-2020	Jul-27-2020	Jul-27-2020	Jul-27-2020	Jul-27-2020					
Rating Date		control	control	injury	control	control	control					
Rating Type		percent	percent	percent	percent	percent	percent					
Rating Unit		14 DA-B	14 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B					
Trt-Eval Interval		0	0	0	0	0	0					
Number of Decimals		0	0	0	0	0	0					
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Timing	Appl Code						
7	'CZ 2040' LLGT27						100	100	30	100	100	100
	Alite 27	4 L		3 fl oz/a	PRE	A						
	Zidua SC	4.17 L		2.5 fl oz/a	PRE	A						
	Zidua SC	4.17 L		2.5 fl oz/a	POST	B						
	Liberty	2.34 L		32 fl oz/a	POST	B						
	Durango DMA	4 SL		36 fl oz/a	POST	B						
	N-PAK AMS Liquid	L		2.5 % v/v	POST	B						
8	'CZ 2360' LLGT27						100	100	20	100	100	100
	Alite 27	4 L		3 fl oz/a	PRE	A						
	Zidua SC	4.17 L		2.5 fl oz/a	PRE	A						
	Zidua SC	4.17 L		2.5 fl oz/a	POST	B						
	Liberty	2.34 L		32 fl oz/a	POST	B						
	Durango DMA	4 SL		36 fl oz/a	POST	B						
	N-PAK AMS Liquid	L		2.5 % v/v	POST	B						
9	'CZ 2760' LLGT27						100	100	25	100	100	100
	Alite 27	4 L		3 fl oz/a	PRE	A						
	Zidua SC	4.17 L		2.5 fl oz/a	PRE	A						
	Zidua SC	4.17 L		2.5 fl oz/a	POST	B						
	Liberty	2.34 L		32 fl oz/a	POST	B						
	Durango DMA	4 SL		36 fl oz/a	POST	B						
	N-PAK AMS Liquid	L		2.5 % v/v	POST	B						
	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 because error mean square = 0.



Multi-system comparison of three different soybean trait platforms (XtendFlex, LLGT27, EnlistE3)

Trial ID: SOY14-20 Location: Campus, T-11 Trial Year: 2020  
 Protocol ID: SOY14-20 Investigator (Creator): Christy Sprague  
 Project ID: Study Director: Sprague, Powell, Stiles  
 Sponsor Contact:

Pest Code	AMBEL	ABUTH	POROL	ANGR	CHEAL	AMAPO
Crop Type, Code						
Rating Date	Jul-27-2020	Jul-27-2020	Jul-27-2020	Oct-13-2020	Oct-13-2020	Oct-13-2020
Rating Type	control	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B	106 DA-B	106 DA-B	106 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Timing	Appl Code	AMBEL	ABUTH	POROL	ANGR	CHEAL	AMAPO
1	'Asgrow 21XF0' XtendFlex						100	100	100	100	100	100
	XtendiMax	2.9 L		22 fl oz/a	PRE	A						
	Warrant Ultra	3.45 L		3 pt/a	PRE	A						
	Intact	L		0.5 % v/v	PRE	A						
	Warrant	3 L		3 pt/a	POST	B						
	XtendiMax	2.9 L		22 fl oz/a	POST	B						
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	B						
	Class Act Ridion	L		1 % v/v	POST	B						
	Intact	L		0.5 % v/v	POST	B						
2	'Asgrow 23XF0' XtendFlex						100	100	100	100	100	100
	XtendiMax	2.9 L		22 fl oz/a	PRE	A						
	Warrant Ultra	3.45 L		3 pt/a	PRE	A						
	Intact	L		0.5 % v/v	PRE	A						
	Warrant	3 L		3 pt/a	POST	B						
	XtendiMax	2.9 L		22 fl oz/a	POST	B						
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	B						
	Class Act Ridion	L		1 % v/v	POST	B						
	Intact	L		0.5 % v/v	POST	B						
3	'Asgrow 27XF0' XtendFlex						100	100	100	100	100	100
	XtendiMax	2.9 L		22 fl oz/a	PRE	A						
	Warrant Ultra	3.45 L		3 pt/a	PRE	A						
	Intact	L		0.5 % v/v	PRE	A						
	Warrant	3 L		3 pt/a	POST	B						
	XtendiMax	2.9 L		22 fl oz/a	POST	B						
	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	B						
	Class Act Ridion	L		1 % v/v	POST	B						
	Intact	L		0.5 % v/v	POST	B						
4	'P22T86E' Enlist E3						100	100	100	90	100	100
	Enlist One	3.8 L		24 fl oz/a	PRE	A						
	Sonic	70 WG		4 oz/a	PRE	A						
	Dual II Magnum	7.64 L		1 pt/a	POST	B						
	Enlist One	3.8 L		24 fl oz/a	POST	B						
	Liberty	2.34 L		32 fl oz/a	POST	B						
	N-PAK AMS Liquid	L		2.5 % v/v	POST	B						
5	'P25T09E' Enlist E3						100	100	100	95	100	100
	Enlist One	3.8 L		24 fl oz/a	PRE	A						
	Sonic	70 WG		4 oz/a	PRE	A						
	Dual II Magnum	7.64 L		1 pt/a	POST	B						
	Enlist One	3.8 L		24 fl oz/a	POST	B						
	Liberty	2.34 L		32 fl oz/a	POST	B						
	N-PAK AMS Liquid	L		2.5 % v/v	POST	B						
6	'P28T14E' Enlist E3						100	100	100	98	100	100
	Enlist One	3.8 L		24 fl oz/a	PRE	A						
	Sonic	70 WG		4 oz/a	PRE	A						
	Dual II Magnum	7.64 L		1 pt/a	POST	B						
	Enlist One	3.8 L		24 fl oz/a	POST	B						
	Liberty	2.34 L		32 fl oz/a	POST	B						
	N-PAK AMS Liquid	L		2.5 % v/v	POST	B						

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Multi-system comparison of three different soybean trait platforms (XtendFlex, LLGT27, EnlistE3)

Trial ID: SOY14-20 Location: Campus, T-11 Trial Year: 2020  
 Protocol ID: SOY14-20 Investigator (Creator): Christy Sprague  
 Project ID: Study Director: Sprague, Powell, Stiles  
 Sponsor Contact:

Pest Code		AMBEL	ABUTH	POROL	ANGR	CHEAL	AMAPO										
Crop Type, Code																	
Rating Date		Jul-27-2020	Jul-27-2020	Jul-27-2020	Oct-13-2020	Oct-13-2020	Oct-13-2020										
Rating Type		control	control	control	control	control	control										
Rating Unit		percent	percent	percent	percent	percent	percent										
Trt-Eval Interval		28 DA-B	28 DA-B	28 DA-B	106 DA-B	106 DA-B	106 DA-B										
Number of Decimals		0	0	0	0	0	0										
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Timing	Appl Code											
7	'CZ 2040' LLGT27						100	100	100	100	100	100	100	100	100	100	100
	Alite 27	4 L		3 fl oz/a	PRE	A											
	Zidua SC	4.17 L		2.5 fl oz/a	PRE	A											
	Zidua SC	4.17 L		2.5 fl oz/a	POST	B											
	Liberty	2.34 L		32 fl oz/a	POST	B											
	Durango DMA	4 SL		36 fl oz/a	POST	B											
	N-PAK AMS Liquid	L		2.5 % v/v	POST	B											
8	'CZ 2360' LLGT27						100	100	100	100	100	100	100	100	100	100	100
	Alite 27	4 L		3 fl oz/a	PRE	A											
	Zidua SC	4.17 L		2.5 fl oz/a	PRE	A											
	Zidua SC	4.17 L		2.5 fl oz/a	POST	B											
	Liberty	2.34 L		32 fl oz/a	POST	B											
	Durango DMA	4 SL		36 fl oz/a	POST	B											
	N-PAK AMS Liquid	L		2.5 % v/v	POST	B											
9	'CZ 2760' LLGT27						100	100	100	100	100	100	100	100	100	100	100
	Alite 27	4 L		3 fl oz/a	PRE	A											
	Zidua SC	4.17 L		2.5 fl oz/a	PRE	A											
	Zidua SC	4.17 L		2.5 fl oz/a	POST	B											
	Liberty	2.34 L		32 fl oz/a	POST	B											
	Durango DMA	4 SL		36 fl oz/a	POST	B											
	N-PAK AMS Liquid	L		2.5 % v/v	POST	B											
	LSD P=.05						.	.	.	.	.	.	.	.	.	.	.
	Standard Deviation						.	.	.	.	.	.	.	.	.	.	.
	CV						.	.	.	.	.	.	.	.	.	.	.

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Multi-system comparison of three different soybean trait platforms (XtendFlex, LLGT27, EnlistE3)

Trial ID: SOY14-20 Location: Campus, T-11 Trial Year: 2020

Protocol ID: SOY14-20 Investigator (Creator): Christy Sprague

Project ID: Study Director: Sprague, Powell, Stiles

Sponsor Contact:

Pest Code	AMBEL	ABUTH		
Crop Type, Code			C GLXMA	C GLXMA
Rating Date	Oct-13-2020	Oct-13-2020	Oct-14-2020	Oct-14-2020
Rating Type	control	control	moisture	yield
Rating Unit	percent	percent	percent	bu/A
Trt-Eval Interval	106 DA-B	106 DA-B	107 DA-B	at 13% M
Number of Decimals	0	0	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code				
1	'Asgrow 21XF0' XtendFlex							100	100	12.4	41.1
	XtendiMax	2.9 L		22 fl oz/a		PRE	A				
	Warrant Ultra	3.45 L		3 pt/a		PRE	A				
	Intact	L		0.5 % v/v		PRE	A				
	Warrant	3 L		3 pt/a		POST	B				
	XtendiMax	2.9 L		22 fl oz/a		POST	B				
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B				
	Class Act Ridion	L		1 % v/v		POST	B				
	Intact	L		0.5 % v/v		POST	B				
2	'Asgrow 23XF0' XtendFlex							100	100	12.5	46.2
	XtendiMax	2.9 L		22 fl oz/a		PRE	A				
	Warrant Ultra	3.45 L		3 pt/a		PRE	A				
	Intact	L		0.5 % v/v		PRE	A				
	Warrant	3 L		3 pt/a		POST	B				
	XtendiMax	2.9 L		22 fl oz/a		POST	B				
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B				
	Class Act Ridion	L		1 % v/v		POST	B				
	Intact	L		0.5 % v/v		POST	B				
3	'Asgrow 27XF0' XtendFlex							100	100	11.9	48.7
	XtendiMax	2.9 L		22 fl oz/a		PRE	A				
	Warrant Ultra	3.45 L		3 pt/a		PRE	A				
	Intact	L		0.5 % v/v		PRE	A				
	Warrant	3 L		3 pt/a		POST	B				
	XtendiMax	2.9 L		22 fl oz/a		POST	B				
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B				
	Class Act Ridion	L		1 % v/v		POST	B				
	Intact	L		0.5 % v/v		POST	B				
4	'P22T86E' Enlist E3							100	100	11.3	59.6
	Enlist One	3.8 L		24 fl oz/a		PRE	A				
	Sonic	70 WG		4 oz/a		PRE	A				
	Dual II Magnum	7.64 L		1 pt/a		POST	B				
	Enlist One	3.8 L		24 fl oz/a		POST	B				
	Liberty	2.34 L		32 fl oz/a		POST	B				
	N-PAK AMS Liquid	L		2.5 % v/v		POST	B				
5	'P25T09E' Enlist E3							100	100	11.9	48.7
	Enlist One	3.8 L		24 fl oz/a		PRE	A				
	Sonic	70 WG		4 oz/a		PRE	A				
	Dual II Magnum	7.64 L		1 pt/a		POST	B				
	Enlist One	3.8 L		24 fl oz/a		POST	B				
	Liberty	2.34 L		32 fl oz/a		POST	B				
	N-PAK AMS Liquid	L		2.5 % v/v		POST	B				
6	'P28T14E' Enlist E3							100	100	10.5	47.7
	Enlist One	3.8 L		24 fl oz/a		PRE	A				
	Sonic	70 WG		4 oz/a		PRE	A				
	Dual II Magnum	7.64 L		1 pt/a		POST	B				
	Enlist One	3.8 L		24 fl oz/a		POST	B				
	Liberty	2.34 L		32 fl oz/a		POST	B				
	N-PAK AMS Liquid	L		2.5 % v/v		POST	B				

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 because error mean square = 0.

Multi-system comparison of three different soybean trait platforms (XtendFlex, LLGT27, EnlistE3)

Trial ID: SOY14-20 Location: Campus, T-11 Trial Year: 2020

Protocol ID: SOY14-20 Investigator (Creator): Christy Sprague

Project ID: Study Director: Sprague, Powell, Stiles

Sponsor Contact:

Pest Code	AMBEL	ABUTH		
Crop Type, Code			C GLXMA	C GLXMA
Rating Date	Oct-13-2020	Oct-13-2020	Oct-14-2020	Oct-14-2020
Rating Type	control	control	moisture	yield
Rating Unit	percent	percent	percent	bu/A
Trt-Eval Interval	106 DA-B	106 DA-B	107 DA-B	at 13% M
Number of Decimals	0	0	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Appl Timing	Appl Code				
7	'CZ 2040' LLGT27			100				100		10.9	48.9
	Alite 27	4 L		3 fl oz/a		PRE	A				
	Zidua SC	4.17 L		2.5 fl oz/a		PRE	A				
	Zidua SC	4.17 L		2.5 fl oz/a		POST	B				
	Liberty	2.34 L		32 fl oz/a		POST	B				
	Durango DMA	4 SL		36 fl oz/a		POST	B				
	N-PAK AMS Liquid	L		2.5 % v/v		POST	B				
8	'CZ 2360' LLGT27			100				100		11.5	47.6
	Alite 27	4 L		3 fl oz/a		PRE	A				
	Zidua SC	4.17 L		2.5 fl oz/a		PRE	A				
	Zidua SC	4.17 L		2.5 fl oz/a		POST	B				
	Liberty	2.34 L		32 fl oz/a		POST	B				
	Durango DMA	4 SL		36 fl oz/a		POST	B				
	N-PAK AMS Liquid	L		2.5 % v/v		POST	B				
9	'CZ 2760' LLGT27			100				100		12.4	55.1
	Alite 27	4 L		3 fl oz/a		PRE	A				
	Zidua SC	4.17 L		2.5 fl oz/a		PRE	A				
	Zidua SC	4.17 L		2.5 fl oz/a		POST	B				
	Liberty	2.34 L		32 fl oz/a		POST	B				
	Durango DMA	4 SL		36 fl oz/a		POST	B				
	N-PAK AMS Liquid	L		2.5 % v/v		POST	B				
	LSD P=.05			.				.		.	.
	Standard Deviation			.				.		.	.
	CV			.				.		.	.