

Multi-system comparison of four different soybean trait platforms (LLGT27, Enlist, RR2 Xtend, and XtendFlex) - 'Stewarded'

Trial ID: SOY13-19 Study Dir.: Sprague, Powell, Stiles
 Conducted: Campus, B-10 Investigator: Christy Sprague

Planting Date: May-28-2019 **Row Spacing:** 30 IN
Variety: see comments **No. of Reps:** 1
Population: 152000 seeds/A **% OM:** 2.5
Soil Type: L loam **pH:** 7.6
Plot Size: 10 X 200 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel plow; spring soil finish (2X)

Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	ANGR	mainly foxtail species	Annual grass
2	CHEAL	lambsquarters, common	Chenopodium album
3	AMAPO	amaranth, Powell	Amaranthus powellii
4	AMBEL	ragweed, common	Ambrosia artemisiifolia
5	HIBTR	Venice mallow	Hibiscus trionum
6	ABUTH	velvetleaf	Abutilon theophrasti
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

	A	B	C
Application Timing:	PRE	POST	LPOS
Date Treated:	May-29-2019	Jul-1-2019	Jul-17-2019
Time Treated:	1:30 PM	3:40 PM	12:45 PM
% Cloud Cover:	97	40	70
Air Temp., Unit:	67 F	88 F	85 F
% Relative Humidity:	75	49	74
Wind Speed/Unit/Dir:	6 mph NW	2 mph SW	3 mph NW
Soil Temp, Unit:	69 F	89 F	81 F
Leaf Moist/Dew Presence (Y/N):	4	5	5
Soil Moist:	4	5	4

Crop Stage at Each Application

	A	B	C
Crop 1 Name:	GLXMA	GLXMA	GLXMA
Height:		6 "	15 "
Stage:		V3	V4

Weed Stage at Each Application

	A	B	C
Weed 1 Name:	ANGR	ANGR	ANGR
Height:		2-6 " (4)	4-12 " (6)
Stage:		2-6L	4-8L
Weed 2 Name:	CHEAL	CHEAL	CHEAL
Height:		2-4 " (3)	2-16 " (6)
Stage:		6-12L	12-24L
Weed 3 Name:	AMAPO	AMAPO	AMAPO
Height:		2-5 " (4)	2-16 " (4)
Stage:		6-8L	12-24L
Weed 4 Name:	AMBEL	AMBEL	AMBEL
Height:		2-6 " (4)	6-24 " (6)
Stage:		8-12L	12-24L
Weed 5 Name:	HIBTR	HIBTR	HIBTR
Height:		1 "	2 "
Stage:		cot-2L	2-4L
Weed 6 Name:	ABUTH	ABUTH	ABUTH
Height:		2 "	4 "
Stage:		cot-2L	4L

Weed Density

	1	2	3	4	5	6
Date:	Jul-1-2019	Jul-1-2019	Jul-1-2019	Jul-1-2019	Jul-1-2019	Jul-1-2019
Weed Name:	ANGR	CHEAL	AMAPO	AMBEL	HIBTR	ABUTH
Density:	26 ft2	2 ft2	13 ft2	5 ft2	3 FT2	1 FT2

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Appl	Sprayer Type	Ground Speed	Nozzle Type	Application Equipment				Spray Volume	Carrier	Operation Pressure
				Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width			
A	CUB	3.8 mph	TTI	11003	24 "	20 "	120 "	19 GPA	WATER	25 psi
B	CUB	3.8 mph	TTI	11003	30 "	20 "	120 "	19 GPA	WATER	25 psi
C	CUB	3.8 mph	AIXR	11003	31 "	20 "	120 "	19 GPA	WATER	30 psi

Comments:

LibertyLink GT27 varieties: 1) DF 6219, 2) CZ 2579, 3) DF 6269; Enlist E3 varieties: 1) Stine 23EA32, 2) Stine 24EA12, 3) Stine 27EA23;
 RR2 Xtend varieties: 1) AG 26X8, 2) AG 23X8, 3) AG 21X7; XtendFlex varieties: 1) AG 26XFO; 2) AG 23XFO; 3) AG 21XFO

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Pest Code		ANGR	CHEAL	AMAPO	AMBEL
Crop Type, Code	GLXMA				
Rating Date	Jul-1-2019	Jul-1-2019	Jul-1-2019	Jul-1-2019	Jul-1-2019
Rating Type	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	0 DA-B	0 DA-B
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code					
1	'DF 6219' LibertyLink GT27							0	85	100	100	75
1	Verdict	5.57 L		5 fl oz/a		PRE	A					
1	Outlook	6 L		12 fl oz/a		POST	B					
1	Liberty	2.34 L		32 fl oz/a		POST	B					
1	Durango DMA	4 SL		36 fl oz/a		POST	B					
1	Amsol	L		3 % v/v		POST	B					
2	'CZ 2579' LibertyLink GT27							0	85	97	100	75
2	Verdict	5.57 L		5 fl oz/a		PRE	A					
2	Outlook	6 L		12 fl oz/a		POST	B					
2	Liberty	2.34 L		32 fl oz/a		POST	B					
2	Durango DMA	4 SL		36 fl oz/a		POST	B					
2	Amsol	L		3 % v/v		POST	B					
3	'DF 6269' LibertyLink GT27							0	85	97	100	75
3	Verdict	5.57 L		5 fl oz/a		PRE	A					
3	Outlook	6 L		12 fl oz/a		POST	B					
3	Liberty	2.34 L		32 fl oz/a		POST	B					
3	Durango DMA	4 SL		36 fl oz/a		POST	B					
3	Amsol	L		3 % v/v		POST	B					
4	'Stine 23EA32' Enlist							0	50	90	100	80
4	Valor	51 WG		2 oz/a		PRE	A					
4	Enlist One	3.8 SL		1.5 pt/a		PRE	A					
4	Dual II Magnum	7.64 L		1 pt/a		POST	B					
4	Enlist Duo	3.3 SL		3.5 pt/a		POST	B					
4	Liberty	2.34 L		32 fl oz/a		POST	B					
4	Amsol	L		3 % v/v		POST	B					
5	'Stine 24EA12' Enlist							0	50	90	100	80
5	Valor	51 WG		2 oz/a		PRE	A					
5	Enlist One	3.8 SL		1.5 pt/a		PRE	A					
5	Dual II Magnum	7.64 L		1 pt/a		POST	B					
5	Enlist Duo	3.3 SL		3.5 pt/a		POST	B					
5	Liberty	2.34 L		32 fl oz/a		POST	B					
5	Amsol	L		3 % v/v		POST	B					
6	'Stine 27EA23' Enlist							0	50	90	100	80
6	Valor	51 WG		2 oz/a		PRE	A					
6	Enlist One	3.8 SL		1.5 pt/a		PRE	A					
6	Dual II Magnum	7.64 L		1 pt/a		POST	B					
6	Enlist Duo	3.3 SL		3.5 pt/a		POST	B					
6	Liberty	2.34 L		32 fl oz/a		POST	B					
6	Amsol	L		3 % v/v		POST	B					

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Crop Type, Code	GLXMA			
Rating Date	Jul-1-2019	Jul-1-2019	Jul-1-2019	Jul-1-2019
Rating Type	injury	control	control	control
Rating Unit	percent	percent	percent	percent
Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	0 DA-B
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code					
7	'AG 26X8' RR2 Xtend							0	93	100	100	20
7	Warrant	3	L	3	pt/a	PRE	A					
7	Mauler	4	L	8	fl oz/a	PRE	A					
7	XtendiMax	2.9	SL	22	fl oz/a	PRE	A					
7	Warrant	3	L	3	pt/a	POST	B					
7	XtendiMax	2.9	L	22	fl oz/a	POST	B					
7	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
7	Intact		L	0.5	% v/v	POST	B					
7	Class Act Ridion		L	1	% v/v	POST	B					
8	'AG 23X8' RR2 Xtend							0	95	100	100	20
8	Warrant	3	L	3	pt/a	PRE	A					
8	Mauler	4	L	8	fl oz/a	PRE	A					
8	XtendiMax	2.9	SL	22	fl oz/a	PRE	A					
8	Warrant	3	L	3	pt/a	POST	B					
8	XtendiMax	2.9	L	22	fl oz/a	POST	B					
8	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
8	Intact		L	0.5	% v/v	POST	B					
8	Class Act Ridion		L	1	% v/v	POST	B					
9	'AG 21X7' RR2 Xtend							0	93	100	100	20
9	Warrant	3	L	3	pt/a	PRE	A					
9	Mauler	4	L	8	fl oz/a	PRE	A					
9	XtendiMax	2.9	SL	22	fl oz/a	PRE	A					
9	Warrant	3	L	3	pt/a	POST	B					
9	XtendiMax	2.9	L	22	fl oz/a	POST	B					
9	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
9	Intact		L	0.5	% v/v	POST	B					
9	Class Act Ridion		L	1	% v/v	POST	B					
10	'AG 26XFO' XtendFlex							0	95	100	100	95
10	Warrant Ultra	3.45	L	50	fl oz/a	PRE	A					
10	XtendiMax	2.9	SL	22	fl oz/a	PRE	A					
10	Warrant	3	L	3	pt/a	POST	B					
10	XtendiMax	2.9	L	22	fl oz/a	POST	B					
10	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
10	Intact		L	0.5	% v/v	POST	B					
10	Class Act Ridion		L	1	% v/v	POST	B					
10	Liberty	2.34	L	32	fl oz/a	LPOS	C					
10	Amsol		L	3	% v/v	LPOS	C					

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Pest Code	ANGR	CHEAL	AMAPO	AMBEL
Crop Type, Code	GLXMA			
Rating Date	Jul-1-2019	Jul-1-2019	Jul-1-2019	Jul-1-2019
Rating Type	injury	control	control	control
Rating Unit	percent	percent	percent	percent
Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	0 DA-B
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code	ANGR	CHEAL	AMAPO	AMBEL	
11	'AG 23XFO' XtendFlex							0	95	100	100	95
11	Warrant Ultra	3.45	L	50	fl oz/a	PRE	A					
11	XtendiMax	2.9	SL	22	fl oz/a	PRE	A					
11	Warrant	3	L	3	pt/a	POST	B					
11	XtendiMax	2.9	L	22	fl oz/a	POST	B					
11	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
11	Intact		L	0.5	% v/v	POST	B					
11	Class Act Ridion		L	1	% v/v	POST	B					
11	Liberty	2.34	L	32	fl oz/a	LPOS	C					
11	Amsol		L	3	% v/v	LPOS	C					
12	'AG 21XFO' XtendFlex							0	95	100	100	95
12	Warrant Ultra	3.45	L	50	fl oz/a	PRE	A					
12	XtendiMax	2.9	SL	22	fl oz/a	PRE	A					
12	Warrant	3	L	3	pt/a	POST	B					
12	XtendiMax	2.9	L	22	fl oz/a	POST	B					
12	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
12	Intact		L	0.5	% v/v	POST	B					
12	Class Act Ridion		L	1	% v/v	POST	B					
12	Liberty	2.34	L	32	fl oz/a	LPOS	C					
12	Amsol		L	3	% v/v	LPOS	C					
	LSD P=.05						
	Standard Deviation						
	CV						

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Pest Code	HIBTR	GLXMA	ANGR	CHEAL	AMAPO
Crop Type, Code	Jul-1-2019	Jul-15-2019	Jul-15-2019	Jul-15-2019	Jul-15-2019
Rating Date	control	injury	control	control	control
Rating Type	percent	percent	percent	percent	percent
Rating Unit	0 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Trt-Eval Interval	0	0	0	0	0
Number of Decimals					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code	HIBTR	GLXMA	ANGR	CHEAL	AMAPO
1	'DF 6219' LibertyLink GT27							40	0	100	100	100
1	Verdict	5.57	L	5 fl oz/a		PRE	A					
1	Outlook	6	L	12 fl oz/a		POST	B					
1	Liberty	2.34	L	32 fl oz/a		POST	B					
1	Durango DMA	4	SL	36 fl oz/a		POST	B					
1	Amsol		L	3 % v/v		POST	B					
2	'CZ 2579' LibertyLink GT27							40	0	100	100	100
2	Verdict	5.57	L	5 fl oz/a		PRE	A					
2	Outlook	6	L	12 fl oz/a		POST	B					
2	Liberty	2.34	L	32 fl oz/a		POST	B					
2	Durango DMA	4	SL	36 fl oz/a		POST	B					
2	Amsol		L	3 % v/v		POST	B					
3	'DF 6269' LibertyLink GT27							40	0	100	100	100
3	Verdict	5.57	L	5 fl oz/a		PRE	A					
3	Outlook	6	L	12 fl oz/a		POST	B					
3	Liberty	2.34	L	32 fl oz/a		POST	B					
3	Durango DMA	4	SL	36 fl oz/a		POST	B					
3	Amsol		L	3 % v/v		POST	B					
4	'Stine 23EA32' Enlist							90	3	100	100	100
4	Valor	51	WG	2 oz/a		PRE	A					
4	Enlist One	3.8	SL	1.5 pt/a		PRE	A					
4	Dual II Magnum	7.64	L	1 pt/a		POST	B					
4	Enlist Duo	3.3	SL	3.5 pt/a		POST	B					
4	Liberty	2.34	L	32 fl oz/a		POST	B					
4	Amsol		L	3 % v/v		POST	B					
5	'Stine 24EA12' Enlist							90	3	100	100	100
5	Valor	51	WG	2 oz/a		PRE	A					
5	Enlist One	3.8	SL	1.5 pt/a		PRE	A					
5	Dual II Magnum	7.64	L	1 pt/a		POST	B					
5	Enlist Duo	3.3	SL	3.5 pt/a		POST	B					
5	Liberty	2.34	L	32 fl oz/a		POST	B					
5	Amsol		L	3 % v/v		POST	B					
6	'Stine 27EA23' Enlist							90	3	100	100	100
6	Valor	51	WG	2 oz/a		PRE	A					
6	Enlist One	3.8	SL	1.5 pt/a		PRE	A					
6	Dual II Magnum	7.64	L	1 pt/a		POST	B					
6	Enlist Duo	3.3	SL	3.5 pt/a		POST	B					
6	Liberty	2.34	L	32 fl oz/a		POST	B					
6	Amsol		L	3 % v/v		POST	B					

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Pest Code	HIBTR	GLXMA	ANGR	CHEAL	AMAPO
Crop Type, Code	Jul-1-2019	Jul-15-2019	Jul-15-2019	Jul-15-2019	Jul-15-2019
Rating Date	control	injury	control	control	control
Rating Type	percent	percent	percent	percent	percent
Rating Unit	0 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Trt-Eval Interval	0	0	0	0	0
Number of Decimals					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code	HIBTR	GLXMA	ANGR	CHEAL	AMAPO
7	'AG 26X8' RR2 Xtend							50	0	100	100	100
	7 Warrant	3	L	3	pt/a	PRE	A					
	7 Mauler	4	L	8	fl oz/a	PRE	A					
	7 XtendiMax	2.9	SL	22	fl oz/a	PRE	A					
	7 Warrant	3	L	3	pt/a	POST	B					
	7 XtendiMax	2.9	L	22	fl oz/a	POST	B					
	7 Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
	7 Intact		L	0.5	% v/v	POST	B					
	7 Class Act Ridion		L	1	% v/v	POST	B					
8	'AG 23X8' RR2 Xtend							50	0	100	100	100
	8 Warrant	3	L	3	pt/a	PRE	A					
	8 Mauler	4	L	8	fl oz/a	PRE	A					
	8 XtendiMax	2.9	SL	22	fl oz/a	PRE	A					
	8 Warrant	3	L	3	pt/a	POST	B					
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	8 Intact		L	0.5	% v/v	POST	B					
	8 Class Act Ridion		L	1	% v/v	POST	B					
9	'AG 21X7' RR2 Xtend							50	0	100	100	100
	9 Warrant	3	L	3	pt/a	PRE	A					
	9 Mauler	4	L	8	fl oz/a	PRE	A					
	9 XtendiMax	2.9	SL	22	fl oz/a	PRE	A					
	9 Warrant	3	L	3	pt/a	POST	B					
	9 XtendiMax	2.9	L	22	fl oz/a	POST	B					
	9 Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
	9 Intact		L	0.5	% v/v	POST	B					
	9 Class Act Ridion		L	1	% v/v	POST	B					
10	'AG 26XFO' XtendFlex							20	0	100	100	100
	10 Warrant Ultra	3.45	L	50	fl oz/a	PRE	A					
	10 XtendiMax	2.9	SL	22	fl oz/a	PRE	A					
	10 Warrant	3	L	3	pt/a	POST	B					
	10 XtendiMax	2.9	L	22	fl oz/a	POST	B					
	10 Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
	10 Intact		L	0.5	% v/v	POST	B					
	10 Class Act Ridion		L	1	% v/v	POST	B					
	10 Liberty	2.34	L	32	fl oz/a	LPOS	C					
	10 Amsol		L	3	% v/v	LPOS	C					

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Rating Date	control	injury	control	control	control
Rating Type	percent	percent	percent	percent	percent
Rating Unit	0 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Trt-Eval Interval	0	0	0	0	0
Number of Decimals					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code	HIBTR	GLXMA	ANGR	CHEAL	AMAPO
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11	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
11	Intact		L	0.5	% v/v	POST	B					
11	Class Act Ridion		L	1	% v/v	POST	B					
11	Liberty	2.34	L	32	fl oz/a	LPOS	C					
11	Amsol		L	3	% v/v	LPOS	C					
12	'AG 21XFO' XtendFlex							20	0	100	100	100
12	Warrant Ultra	3.45	L	50	fl oz/a	PRE	A					
12	XtendiMax	2.9	SL	22	fl oz/a	PRE	A					
12	Warrant	3	L	3	pt/a	POST	B					
12	XtendiMax	2.9	L	22	fl oz/a	POST	B					
12	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
12	Intact		L	0.5	% v/v	POST	B					
12	Class Act Ridion		L	1	% v/v	POST	B					
12	Liberty	2.34	L	32	fl oz/a	LPOS	C					
12	Amsol		L	3	% v/v	LPOS	C					
	LSD P=.05						
	Standard Deviation						
	CV						

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Pest Code	AMBEL	HIBTR	GLXMA	ANGR	CHEAL
Crop Type, Code					
Rating Date	Jul-15-2019	Jul-15-2019	Jul-29-2019	Jul-29-2019	Jul-29-2019
Rating Type	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-B	14 DA-B	28 DA-B	28 DA-B	28 DA-B
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code	AMBEL	HIBTR	GLXMA	ANGR	CHEAL
1	'DF 6219' LibertyLink GT27							100	95	0	100	100
1	Verdict	5.57	L	5 fl oz/a		PRE	A					
1	Outlook	6	L	12 fl oz/a		POST	B					
1	Liberty	2.34	L	32 fl oz/a		POST	B					
1	Durango DMA	4	SL	36 fl oz/a		POST	B					
1	Amsol		L	3 % v/v		POST	B					
2	'CZ 2579' LibertyLink GT27							100	95	0	100	100
2	Verdict	5.57	L	5 fl oz/a		PRE	A					
2	Outlook	6	L	12 fl oz/a		POST	B					
2	Liberty	2.34	L	32 fl oz/a		POST	B					
2	Durango DMA	4	SL	36 fl oz/a		POST	B					
2	Amsol		L	3 % v/v		POST	B					
3	'DF 6269' LibertyLink GT27							100	100	0	100	100
3	Verdict	5.57	L	5 fl oz/a		PRE	A					
3	Outlook	6	L	12 fl oz/a		POST	B					
3	Liberty	2.34	L	32 fl oz/a		POST	B					
3	Durango DMA	4	SL	36 fl oz/a		POST	B					
3	Amsol		L	3 % v/v		POST	B					
4	'Stine 23EA32' Enlist							100	100	0	100	100
4	Valor	51	WG	2 oz/a		PRE	A					
4	Enlist One	3.8	SL	1.5 pt/a		PRE	A					
4	Dual II Magnum	7.64	L	1 pt/a		POST	B					
4	Enlist Duo	3.3	SL	3.5 pt/a		POST	B					
4	Liberty	2.34	L	32 fl oz/a		POST	B					
4	Amsol		L	3 % v/v		POST	B					
5	'Stine 24EA12' Enlist							100	97	0	100	100
5	Valor	51	WG	2 oz/a		PRE	A					
5	Enlist One	3.8	SL	1.5 pt/a		PRE	A					
5	Dual II Magnum	7.64	L	1 pt/a		POST	B					
5	Enlist Duo	3.3	SL	3.5 pt/a		POST	B					
5	Liberty	2.34	L	32 fl oz/a		POST	B					
5	Amsol		L	3 % v/v		POST	B					
6	'Stine 27EA23' Enlist							100	100	0	100	100
6	Valor	51	WG	2 oz/a		PRE	A					
6	Enlist One	3.8	SL	1.5 pt/a		PRE	A					
6	Dual II Magnum	7.64	L	1 pt/a		POST	B					
6	Enlist Duo	3.3	SL	3.5 pt/a		POST	B					
6	Liberty	2.34	L	32 fl oz/a		POST	B					
6	Amsol		L	3 % v/v		POST	B					

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

Multi-system comparison of four different soybean trait platforms (LLGT27, Enlist, RR2 Xtend, and XtendFlex) - 'Stewarded'

Trial ID: SOY13-19

Location: Campus, B-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMBEL	HIBTR	GLXMA	ANGR	CHEAL
Crop Type, Code					
Rating Date	Jul-15-2019	Jul-15-2019	Jul-29-2019	Jul-29-2019	Jul-29-2019
Rating Type	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-B	14 DA-B	28 DA-B	28 DA-B	28 DA-B
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code	AMBEL	HIBTR	GLXMA	ANGR	CHEAL
7	'AG 26X8' RR2 Xtend							100	100	0	100	100
	7 Warrant	3 L		3 pt/a		PRE	A					
	7 Mauler	4 L		8 fl oz/a		PRE	A					
	7 XtendiMax	2.9 SL		22 fl oz/a		PRE	A					
	7 Warrant	3 L		3 pt/a		POST	B					
	7 XtendiMax	2.9 L		22 fl oz/a		POST	B					
	7 Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
	7 Intact	L		0.5 % v/v		POST	B					
	7 Class Act Ridion	L		1 % v/v		POST	B					
8	'AG 23X8' RR2 Xtend							100	100	0	100	100
	8 Warrant	3 L		3 pt/a		PRE	A					
	8 Mauler	4 L		8 fl oz/a		PRE	A					
	8 XtendiMax	2.9 SL		22 fl oz/a		PRE	A					
	8 Warrant	3 L		3 pt/a		POST	B					
	8 XtendiMax	2.9 L		22 fl oz/a		POST	B					
	8 Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
	8 Intact	L		0.5 % v/v		POST	B					
	8 Class Act Ridion	L		1 % v/v		POST	B					
9	'AG 21X7' RR2 Xtend							100	100	0	100	100
	9 Warrant	3 L		3 pt/a		PRE	A					
	9 Mauler	4 L		8 fl oz/a		PRE	A					
	9 XtendiMax	2.9 SL		22 fl oz/a		PRE	A					
	9 Warrant	3 L		3 pt/a		POST	B					
	9 XtendiMax	2.9 L		22 fl oz/a		POST	B					
	9 Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
	9 Intact	L		0.5 % v/v		POST	B					
	9 Class Act Ridion	L		1 % v/v		POST	B					
10	'AG 26XFO' XtendFlex							100	100	0	100	100
	10 Warrant Ultra	3.45 L		50 fl oz/a		PRE	A					
	10 XtendiMax	2.9 SL		22 fl oz/a		PRE	A					
	10 Warrant	3 L		3 pt/a		POST	B					
	10 XtendiMax	2.9 L		22 fl oz/a		POST	B					
	10 Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
	10 Intact	L		0.5 % v/v		POST	B					
	10 Class Act Ridion	L		1 % v/v		POST	B					
	10 Liberty	2.34 L		32 fl oz/a		LPOS	C					
	10 Amsol	L		3 % v/v		LPOS	C					

Multi-system comparison of four different soybean trait platforms (LLGT27, Enlist, RR2 Xtend, and XtendFlex) - 'Stewarded'

Trial ID: SOY13-19

Location: Campus, B-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMBEL	HIBTR	GLXMA	ANGR	CHEAL
Crop Type, Code					
Rating Date	Jul-15-2019	Jul-15-2019	Jul-29-2019	Jul-29-2019	Jul-29-2019
Rating Type	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-B	14 DA-B	28 DA-B	28 DA-B	28 DA-B
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code	AMBEL	HIBTR	GLXMA	ANGR	CHEAL
11	'AG 23XFO' XtendFlex							100	100	0	100	100
11	Warrant Ultra	3.45	L	50	fl oz/a	PRE	A					
11	XtendiMax	2.9	SL	22	fl oz/a	PRE	A					
11	Warrant	3	L	3	pt/a	POST	B					
11	XtendiMax	2.9	L	22	fl oz/a	POST	B					
11	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
11	Intact		L	0.5	% v/v	POST	B					
11	Class Act Ridion		L	1	% v/v	POST	B					
11	Liberty	2.34	L	32	fl oz/a	LPOS	C					
11	Amsol		L	3	% v/v	LPOS	C					
12	'AG 21XFO' XtendFlex							100	100	0	100	100
12	Warrant Ultra	3.45	L	50	fl oz/a	PRE	A					
12	XtendiMax	2.9	SL	22	fl oz/a	PRE	A					
12	Warrant	3	L	3	pt/a	POST	B					
12	XtendiMax	2.9	L	22	fl oz/a	POST	B					
12	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
12	Intact		L	0.5	% v/v	POST	B					
12	Class Act Ridion		L	1	% v/v	POST	B					
12	Liberty	2.34	L	32	fl oz/a	LPOS	C					
12	Amsol		L	3	% v/v	LPOS	C					
	LSD P=.05							.	.	.	.	.
	Standard Deviation							.	.	.	.	.
	CV							.	.	.	.	.

Multi-system comparison of four different soybean trait platforms (LLGT27, Enlist, RR2 Xtend, and XtendFlex) - 'Stewarded'

Trial ID: SOY13-19

Location: Campus, B-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMAPO	AMBEL	ABUTH	HIBTR	GLXMA
Crop Type, Code	Jul-29-2019	Jul-29-2019	Jul-29-2019	Jul-29-2019	Oct-8-2019
Rating Date	control	control	control	control	injury
Rating Type	percent	percent	percent	percent	percent
Rating Unit	28 DA-B	28 DA-B	28 DA-B	28 DA-B	83 DA-C
Trt-Eval Interval	0	0	0	0	0
Number of Decimals					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code	AMAPO	AMBEL	ABUTH	HIBTR	GLXMA
1	'DF 6219' LibertyLink GT27							100	100	100	95	0
1	Verdict	5.57	L	5 fl oz/a		PRE	A					
1	Outlook	6	L	12 fl oz/a		POST	B					
1	Liberty	2.34	L	32 fl oz/a		POST	B					
1	Durango DMA	4	SL	36 fl oz/a		POST	B					
1	Amsol		L	3 % v/v		POST	B					
2	'CZ 2579' LibertyLink GT27							100	100	100	85	0
2	Verdict	5.57	L	5 fl oz/a		PRE	A					
2	Outlook	6	L	12 fl oz/a		POST	B					
2	Liberty	2.34	L	32 fl oz/a		POST	B					
2	Durango DMA	4	SL	36 fl oz/a		POST	B					
2	Amsol		L	3 % v/v		POST	B					
3	'DF 6269' LibertyLink GT27							100	100	97	95	0
3	Verdict	5.57	L	5 fl oz/a		PRE	A					
3	Outlook	6	L	12 fl oz/a		POST	B					
3	Liberty	2.34	L	32 fl oz/a		POST	B					
3	Durango DMA	4	SL	36 fl oz/a		POST	B					
3	Amsol		L	3 % v/v		POST	B					
4	'Stine 23EA32' Enlist							100	100	100	100	0
4	Valor	51	WG	2 oz/a		PRE	A					
4	Enlist One	3.8	SL	1.5 pt/a		PRE	A					
4	Dual II Magnum	7.64	L	1 pt/a		POST	B					
4	Enlist Duo	3.3	SL	3.5 pt/a		POST	B					
4	Liberty	2.34	L	32 fl oz/a		POST	B					
4	Amsol		L	3 % v/v		POST	B					
5	'Stine 24EA12' Enlist							100	100	100	100	0
5	Valor	51	WG	2 oz/a		PRE	A					
5	Enlist One	3.8	SL	1.5 pt/a		PRE	A					
5	Dual II Magnum	7.64	L	1 pt/a		POST	B					
5	Enlist Duo	3.3	SL	3.5 pt/a		POST	B					
5	Liberty	2.34	L	32 fl oz/a		POST	B					
5	Amsol		L	3 % v/v		POST	B					
6	'Stine 27EA23' Enlist							100	100	100	100	0
6	Valor	51	WG	2 oz/a		PRE	A					
6	Enlist One	3.8	SL	1.5 pt/a		PRE	A					
6	Dual II Magnum	7.64	L	1 pt/a		POST	B					
6	Enlist Duo	3.3	SL	3.5 pt/a		POST	B					
6	Liberty	2.34	L	32 fl oz/a		POST	B					
6	Amsol		L	3 % v/v		POST	B					

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

Multi-system comparison of four different soybean trait platforms (LLGT27, Enlist, RR2 Xtend, and XtendFlex) - 'Stewarded'

Trial ID: SOY13-19

Location: Campus, B-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMAPO	AMBEL	ABUTH	HIBTR	GLXMA
Crop Type, Code	Jul-29-2019	Jul-29-2019	Jul-29-2019	Jul-29-2019	Oct-8-2019
Rating Date	control	control	control	control	injury
Rating Type	percent	percent	percent	percent	percent
Rating Unit	28 DA-B	28 DA-B	28 DA-B	28 DA-B	83 DA-C
Trt-Eval Interval	0	0	0	0	0
Number of Decimals					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code	AMAPO	AMBEL	ABUTH	HIBTR	GLXMA
7	'AG 26X8' RR2 Xtend							100	100	100	96	0
	7 Warrant	3 L		3 pt/a		PRE	A					
	7 Mauler	4 L		8 fl oz/a		PRE	A					
	7 XtendiMax	2.9 SL		22 fl oz/a		PRE	A					
	7 Warrant	3 L		3 pt/a		POST	B					
	7 XtendiMax	2.9 L		22 fl oz/a		POST	B					
	7 Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
	7 Intact	L		0.5 % v/v		POST	B					
	7 Class Act Ridion	L		1 % v/v		POST	B					
8	'AG 23X8' RR2 Xtend							100	100	100	96	0
	8 Warrant	3 L		3 pt/a		PRE	A					
	8 Mauler	4 L		8 fl oz/a		PRE	A					
	8 XtendiMax	2.9 SL		22 fl oz/a		PRE	A					
	8 Warrant	3 L		3 pt/a		POST	B					
	8 XtendiMax	2.9 L		22 fl oz/a		POST	B					
	8 Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
	8 Intact	L		0.5 % v/v		POST	B					
	8 Class Act Ridion	L		1 % v/v		POST	B					
9	'AG 21X7' RR2 Xtend							100	100	100	96	0
	9 Warrant	3 L		3 pt/a		PRE	A					
	9 Mauler	4 L		8 fl oz/a		PRE	A					
	9 XtendiMax	2.9 SL		22 fl oz/a		PRE	A					
	9 Warrant	3 L		3 pt/a		POST	B					
	9 XtendiMax	2.9 L		22 fl oz/a		POST	B					
	9 Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
	9 Intact	L		0.5 % v/v		POST	B					
	9 Class Act Ridion	L		1 % v/v		POST	B					
10	'AG 26XFO' XtendFlex							100	100	100	98	0
	10 Warrant Ultra	3.45 L		50 fl oz/a		PRE	A					
	10 XtendiMax	2.9 SL		22 fl oz/a		PRE	A					
	10 Warrant	3 L		3 pt/a		POST	B					
	10 XtendiMax	2.9 L		22 fl oz/a		POST	B					
	10 Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
	10 Intact	L		0.5 % v/v		POST	B					
	10 Class Act Ridion	L		1 % v/v		POST	B					
	10 Liberty	2.34 L		32 fl oz/a		LPOS	C					
	10 Amsol	L		3 % v/v		LPOS	C					

Multi-system comparison of four different soybean trait platforms (LLGT27, Enlist, RR2 Xtend, and XtendFlex) - 'Stewarded'

Trial ID: SOY13-19

Location: Campus, B-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMAPO	AMBEL	ABUTH	HIBTR	GLXMA
Crop Type, Code					
Rating Date	Jul-29-2019	Jul-29-2019	Jul-29-2019	Jul-29-2019	Oct-8-2019
Rating Type	control	control	control	control	injury
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B	28 DA-B	83 DA-C
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code	AMAPO	AMBEL	ABUTH	HIBTR	GLXMA
11	'AG 23XFO' XtendFlex							100	100	100	98	0
11	Warrant Ultra	3.45	L	50	fl oz/a	PRE	A					
11	XtendiMax	2.9	SL	22	fl oz/a	PRE	A					
11	Warrant	3	L	3	pt/a	POST	B					
11	XtendiMax	2.9	L	22	fl oz/a	POST	B					
11	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
11	Intact		L	0.5	% v/v	POST	B					
11	Class Act Ridion		L	1	% v/v	POST	B					
11	Liberty	2.34	L	32	fl oz/a	LPOS	C					
11	Amsol		L	3	% v/v	LPOS	C					
12	'AG 21XFO' XtendFlex							100	100	100	99	0
12	Warrant Ultra	3.45	L	50	fl oz/a	PRE	A					
12	XtendiMax	2.9	SL	22	fl oz/a	PRE	A					
12	Warrant	3	L	3	pt/a	POST	B					
12	XtendiMax	2.9	L	22	fl oz/a	POST	B					
12	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
12	Intact		L	0.5	% v/v	POST	B					
12	Class Act Ridion		L	1	% v/v	POST	B					
12	Liberty	2.34	L	32	fl oz/a	LPOS	C					
12	Amsol		L	3	% v/v	LPOS	C					
	LSD P=.05							.	.	.	.	.
	Standard Deviation							.	.	.	.	.
	CV							.	.	.	.	.

Multi-system comparison of four different soybean trait platforms (LLGT27, Enlist, RR2 Xtend, and XtendFlex) - 'Stewarded'

Trial ID: SOY13-19

Location: Campus, B-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Type, Code					
Rating Date	Oct-8-2019	Oct-8-2019	Oct-8-2019	Oct-8-2019	Oct-8-2019
Rating Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	83 DA-C	83 DA-C	83 DA-C	83 DA-C	83 DA-C
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code					
1	'DF 6219' LibertyLink GT27							100	100	100	97	100
1	Verdict	5.57	L	5 fl oz/a		PRE	A					
1	Outlook	6	L	12 fl oz/a		POST	B					
1	Liberty	2.34	L	32 fl oz/a		POST	B					
1	Durango DMA	4	SL	36 fl oz/a		POST	B					
1	Amsol		L	3 % v/v		POST	B					
2	'CZ 2579' LibertyLink GT27							100	100	100	100	100
2	Verdict	5.57	L	5 fl oz/a		PRE	A					
2	Outlook	6	L	12 fl oz/a		POST	B					
2	Liberty	2.34	L	32 fl oz/a		POST	B					
2	Durango DMA	4	SL	36 fl oz/a		POST	B					
2	Amsol		L	3 % v/v		POST	B					
3	'DF 6269' LibertyLink GT27							100	100	100	100	100
3	Verdict	5.57	L	5 fl oz/a		PRE	A					
3	Outlook	6	L	12 fl oz/a		POST	B					
3	Liberty	2.34	L	32 fl oz/a		POST	B					
3	Durango DMA	4	SL	36 fl oz/a		POST	B					
3	Amsol		L	3 % v/v		POST	B					
4	'Stine 23EA32' Enlist							100	100	100	100	95
4	Valor	51	WG	2 oz/a		PRE	A					
4	Enlist One	3.8	SL	1.5 pt/a		PRE	A					
4	Dual II Magnum	7.64	L	1 pt/a		POST	B					
4	Enlist Duo	3.3	SL	3.5 pt/a		POST	B					
4	Liberty	2.34	L	32 fl oz/a		POST	B					
4	Amsol		L	3 % v/v		POST	B					
5	'Stine 24EA12' Enlist							100	100	100	100	95
5	Valor	51	WG	2 oz/a		PRE	A					
5	Enlist One	3.8	SL	1.5 pt/a		PRE	A					
5	Dual II Magnum	7.64	L	1 pt/a		POST	B					
5	Enlist Duo	3.3	SL	3.5 pt/a		POST	B					
5	Liberty	2.34	L	32 fl oz/a		POST	B					
5	Amsol		L	3 % v/v		POST	B					
6	'Stine 27EA23' Enlist							100	100	100	100	97
6	Valor	51	WG	2 oz/a		PRE	A					
6	Enlist One	3.8	SL	1.5 pt/a		PRE	A					
6	Dual II Magnum	7.64	L	1 pt/a		POST	B					
6	Enlist Duo	3.3	SL	3.5 pt/a		POST	B					
6	Liberty	2.34	L	32 fl oz/a		POST	B					
6	Amsol		L	3 % v/v		POST	B					

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

Multi-system comparison of four different soybean trait platforms (LLGT27, Enlist, RR2 Xtend, and XtendFlex) - 'Stewarded'

Trial ID: SOY13-19

Location: Campus, B-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Type, Code					
Rating Date	Oct-8-2019	Oct-8-2019	Oct-8-2019	Oct-8-2019	Oct-8-2019
Rating Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	83 DA-C	83 DA-C	83 DA-C	83 DA-C	83 DA-C
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code					
7	'AG 26X8' RR2 Xtend							100	100	100	100	100
	7 Warrant	3 L		3 pt/a		PRE	A					
	7 Mauler	4 L		8 fl oz/a		PRE	A					
	7 XtendiMax	2.9 SL		22 fl oz/a		PRE	A					
	7 Warrant	3 L		3 pt/a		POST	B					
	7 XtendiMax	2.9 L		22 fl oz/a		POST	B					
	7 Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
	7 Intact	L		0.5 % v/v		POST	B					
	7 Class Act Ridion	L		1 % v/v		POST	B					
8	'AG 23X8' RR2 Xtend							100	100	100	100	100
	8 Warrant	3 L		3 pt/a		PRE	A					
	8 Mauler	4 L		8 fl oz/a		PRE	A					
	8 XtendiMax	2.9 SL		22 fl oz/a		PRE	A					
	8 Warrant	3 L		3 pt/a		POST	B					
	8 XtendiMax	2.9 L		22 fl oz/a		POST	B					
	8 Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
	8 Intact	L		0.5 % v/v		POST	B					
	8 Class Act Ridion	L		1 % v/v		POST	B					
9	'AG 21X7' RR2 Xtend							100	100	100	100	100
	9 Warrant	3 L		3 pt/a		PRE	A					
	9 Mauler	4 L		8 fl oz/a		PRE	A					
	9 XtendiMax	2.9 SL		22 fl oz/a		PRE	A					
	9 Warrant	3 L		3 pt/a		POST	B					
	9 XtendiMax	2.9 L		22 fl oz/a		POST	B					
	9 Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
	9 Intact	L		0.5 % v/v		POST	B					
	9 Class Act Ridion	L		1 % v/v		POST	B					
10	'AG 26XFO' XtendFlex							100	100	100	100	100
	10 Warrant Ultra	3.45 L		50 fl oz/a		PRE	A					
	10 XtendiMax	2.9 SL		22 fl oz/a		PRE	A					
	10 Warrant	3 L		3 pt/a		POST	B					
	10 XtendiMax	2.9 L		22 fl oz/a		POST	B					
	10 Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
	10 Intact	L		0.5 % v/v		POST	B					
	10 Class Act Ridion	L		1 % v/v		POST	B					
	10 Liberty	2.34 L		32 fl oz/a		LPOS	C					
	10 Amsol	L		3 % v/v		LPOS	C					

Multi-system comparison of four different soybean trait platforms (LLGT27, Enlist, RR2 Xtend, and XtendFlex) - 'Stewarded'

Trial ID: SOY13-19

Location: Campus, B-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Type, Code					
Rating Date	Oct-8-2019	Oct-8-2019	Oct-8-2019	Oct-8-2019	Oct-8-2019
Rating Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	83 DA-C	83 DA-C	83 DA-C	83 DA-C	83 DA-C
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code					
11	'AG 23XFO' XtendFlex							100	100	100	100	100
11	Warrant Ultra	3.45	L	50	fl oz/a	PRE	A					
11	XtendiMax	2.9	SL	22	fl oz/a	PRE	A					
11	Warrant	3	L	3	pt/a	POST	B					
11	XtendiMax	2.9	L	22	fl oz/a	POST	B					
11	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
11	Intact		L	0.5	% v/v	POST	B					
11	Class Act Ridion		L	1	% v/v	POST	B					
11	Liberty	2.34	L	32	fl oz/a	LPOS	C					
11	Amsol		L	3	% v/v	LPOS	C					
12	'AG 21XFO' XtendFlex							100	100	100	100	100
12	Warrant Ultra	3.45	L	50	fl oz/a	PRE	A					
12	XtendiMax	2.9	SL	22	fl oz/a	PRE	A					
12	Warrant	3	L	3	pt/a	POST	B					
12	XtendiMax	2.9	L	22	fl oz/a	POST	B					
12	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B					
12	Intact		L	0.5	% v/v	POST	B					
12	Class Act Ridion		L	1	% v/v	POST	B					
12	Liberty	2.34	L	32	fl oz/a	LPOS	C					
12	Amsol		L	3	% 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 because error mean square = 0.

Multi-system comparison of four different soybean trait platforms (LLGT27, Enlist, RR2 Xtend, and XtendFlex) - 'Stewarded'

Trial ID: SOY13-19

Location: Campus, B-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	HIBTR	GLXMA	GLXMA
Crop Type, Code	Oct-8-2019	Oct-10-2019	Oct-10-2019
Rating Date	control	moisture	yield
Rating Type	percent	percent	bu/acre
Rating Unit	83 DA-C	85 DA-C	at 13% M
Trt-Eval Interval	0	1	1
Number of Decimals			

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code			
1	'DF 6219' LibertyLink GT27							80	14.1	42.2
1	Verdict	5.57 L		5 fl oz/a		PRE	A			
1	Outlook	6 L		12 fl oz/a		POST	B			
1	Liberty	2.34 L		32 fl oz/a		POST	B			
1	Durango DMA	4 SL		36 fl oz/a		POST	B			
1	Amsol	L		3 % v/v		POST	B			
2	'CZ 2579' LibertyLink GT27							85	12.3	50.8
2	Verdict	5.57 L		5 fl oz/a		PRE	A			
2	Outlook	6 L		12 fl oz/a		POST	B			
2	Liberty	2.34 L		32 fl oz/a		POST	B			
2	Durango DMA	4 SL		36 fl oz/a		POST	B			
2	Amsol	L		3 % v/v		POST	B			
3	'DF 6269' LibertyLink GT27							95	11.7	53.1
3	Verdict	5.57 L		5 fl oz/a		PRE	A			
3	Outlook	6 L		12 fl oz/a		POST	B			
3	Liberty	2.34 L		32 fl oz/a		POST	B			
3	Durango DMA	4 SL		36 fl oz/a		POST	B			
3	Amsol	L		3 % v/v		POST	B			
4	'Stine 23EA32' Enlist							90	12.1	50.3
4	Valor	51 WG		2 oz/a		PRE	A			
4	Enlist One	3.8 SL		1.5 pt/a		PRE	A			
4	Dual II Magnum	7.64 L		1 pt/a		POST	B			
4	Enlist Duo	3.3 SL		3.5 pt/a		POST	B			
4	Liberty	2.34 L		32 fl oz/a		POST	B			
4	Amsol	L		3 % v/v		POST	B			
5	'Stine 24EA12' Enlist							95	11.8	51.2
5	Valor	51 WG		2 oz/a		PRE	A			
5	Enlist One	3.8 SL		1.5 pt/a		PRE	A			
5	Dual II Magnum	7.64 L		1 pt/a		POST	B			
5	Enlist Duo	3.3 SL		3.5 pt/a		POST	B			
5	Liberty	2.34 L		32 fl oz/a		POST	B			
5	Amsol	L		3 % v/v		POST	B			
6	'Stine 27EA23' Enlist							98	13.5	49.2
6	Valor	51 WG		2 oz/a		PRE	A			
6	Enlist One	3.8 SL		1.5 pt/a		PRE	A			
6	Dual II Magnum	7.64 L		1 pt/a		POST	B			
6	Enlist Duo	3.3 SL		3.5 pt/a		POST	B			
6	Liberty	2.34 L		32 fl oz/a		POST	B			
6	Amsol	L		3 % v/v		POST	B			

Multi-system comparison of four different soybean trait platforms (LLGT27, Enlist, RR2 Xtend, and XtendFlex) - 'Stewarded'

Trial ID: SOY13-19

Location: Campus, B-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	HIBTR	GLXMA	GLXMA
Crop Type, Code	Oct-8-2019	Oct-10-2019	Oct-10-2019
Rating Date	control	moisture	yield
Rating Type	percent	percent	bu/acre
Rating Unit	83 DA-C	85 DA-C	at 13% M
Trt-Eval Interval	0	1	1
Number of Decimals			

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Appl Timing	Appl Code			
7	'AG 26X8' RR2 Xtend							83	11.9	52.1
7	Warrant	3 L		3 pt/a		PRE	A			
7	Mauler	4 L		8 fl oz/a		PRE	A			
7	XtendiMax	2.9 SL		22 fl oz/a		PRE	A			
7	Warrant	3 L		3 pt/a		POST	B			
7	XtendiMax	2.9 L		22 fl oz/a		POST	B			
7	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B			
7	Intact	L		0.5 % v/v		POST	B			
7	Class Act Ridion	L		1 % v/v		POST	B			
8	'AG 23X8' RR2 Xtend							80	12.0	47.6
8	Warrant	3 L		3 pt/a		PRE	A			
8	Mauler	4 L		8 fl oz/a		PRE	A			
8	XtendiMax	2.9 SL		22 fl oz/a		PRE	A			
8	Warrant	3 L		3 pt/a		POST	B			
8	XtendiMax	2.9 L		22 fl oz/a		POST	B			
8	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B			
8	Intact	L		0.5 % v/v		POST	B			
8	Class Act Ridion	L		1 % v/v		POST	B			
9	'AG 21X7' RR2 Xtend							83	11.7	47.9
9	Warrant	3 L		3 pt/a		PRE	A			
9	Mauler	4 L		8 fl oz/a		PRE	A			
9	XtendiMax	2.9 SL		22 fl oz/a		PRE	A			
9	Warrant	3 L		3 pt/a		POST	B			
9	XtendiMax	2.9 L		22 fl oz/a		POST	B			
9	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B			
9	Intact	L		0.5 % v/v		POST	B			
9	Class Act Ridion	L		1 % v/v		POST	B			
10	'AG 26XFO' XtendFlex							80	13.1	44.9
10	Warrant Ultra	3.45 L		50 fl oz/a		PRE	A			
10	XtendiMax	2.9 SL		22 fl oz/a		PRE	A			
10	Warrant	3 L		3 pt/a		POST	B			
10	XtendiMax	2.9 L		22 fl oz/a		POST	B			
10	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B			
10	Intact	L		0.5 % v/v		POST	B			
10	Class Act Ridion	L		1 % v/v		POST	B			
10	Liberty	2.34 L		32 fl oz/a		LPOS	C			
10	Amsol	L		3 % v/v		LPOS	C			

Multi-system comparison of four different soybean trait platforms (LLGT27, Enlist, RR2 Xtend, and XtendFlex) - 'Stewarded'

Trial ID: SOY13-19

Location: Campus, B-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	HIBTR	GLXMA	GLXMA
Crop Type, Code			
Rating Date	Oct-8-2019	Oct-10-2019	Oct-10-2019
Rating Type	control	moisture	yield
Rating Unit	percent	percent	bu/acre
Trt-Eval Interval	83 DA-C	85 DA-C	at 13% M
Number of Decimals	0	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code			
11	'AG 23XFO' XtendFlex							83	12.1	43.2
11	Warrant Ultra	3.45	L	50	fl oz/a	PRE	A			
11	XtendiMax	2.9	SL	22	fl oz/a	PRE	A			
11	Warrant	3	L	3	pt/a	POST	B			
11	XtendiMax	2.9	L	22	fl oz/a	POST	B			
11	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B			
11	Intact		L	0.5	% v/v	POST	B			
11	Class Act Ridion		L	1	% v/v	POST	B			
11	Liberty	2.34	L	32	fl oz/a	LPOS	C			
11	Amsol		L	3	% v/v	LPOS	C			
12	'AG 21XFO' XtendFlex							80	12.0	43.2
12	Warrant Ultra	3.45	L	50	fl oz/a	PRE	A			
12	XtendiMax	2.9	SL	22	fl oz/a	PRE	A			
12	Warrant	3	L	3	pt/a	POST	B			
12	XtendiMax	2.9	L	22	fl oz/a	POST	B			
12	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	B			
12	Intact		L	0.5	% v/v	POST	B			
12	Class Act Ridion		L	1	% v/v	POST	B			
12	Liberty	2.34	L	32	fl oz/a	LPOS	C			
12	Amsol		L	3	% v/v	LPOS	C			

LSD P=.05	.	.	.
Standard Deviation	.	.	.
CV	.	.	.