

Weed control systems in XtendFlex soybean - "Stewarded"

Trial ID: SOY09-20 Study Dir.: Constine, Sprague
 Conducted: Campus, T-12 Investigator: Christy Sprague

Planting Date: May-23-2020 **Row Spacing:** 30 IN
Variety: AG22XF1 **No. of Reps:** 4
Population: 156000 seeds/A **% OM:** 3.3
Soil Type: CL clay loam **pH:** 6.4
Plot Size: 10 X 35 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel plow, fall soil finish; Spring soil finish (2X)

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	SINAR	wild mustard	Sinapis arvensis
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

	A	B	C	D
Application Timing:	PRE	EPOS	POST	LPOS
Date Treated:	May-23-2020	Jun-15-2020	Jun-22-2020	Jul-7-2020
Time Treated:	3:45 AM	10:00 AM	8:25 AM	9:20 AM
% Cloud Cover:	60	0	90	0
Air Temp., Unit:	76 F	65 F	73 F	79 F
% Relative Humidity:	70	60	69	71
Wind Speed/Unit/Dir:	6.5 mph SE	5 mph E	4 mph SW	3 mph SW
Soil Temp, Unit:	66 F	61 F	90 F	79 F
Leaf Moist/Dew Presence (Y/N):	4	5	5	5
Soil Moist:	4	5	4	5

Crop Stage at Each Application

	A	B	C	D
Crop 1 Name:	GLXMA	GLXMA	GLXMA	GLXMA
Height:		6 "	8 "	19 "
Stage:		V2	V3	R1

Weed Stage at Each Application

	A	B	C	D
Weed 1 Name:	ANGR	ANGR	ANGR	ANGR
Height:		5 "	10-12 " (11)	8-13 " (10)
Stage:		2-4L	5-6L	15L
Weed 2 Name:	CHEAL	CHEAL	CHEAL	CHEAL
Height:		1.5 "	1-3 " (2)	4-8 " (6)
Stage:		4L	8L	5-7L
Weed 3 Name:	AMAPO	AMAPO	AMAPO	AMAPO
Height:		1.5 "	1-3 " (2)	6-8 " (7)
Stage:		3L	6-10L	6-10L
Weed 4 Name:	AMBEL	AMBEL	AMBEL	AMBEL
Height:		2 "	3-7 " (5)	2-4 " (3)
Stage:		4L	8-12L	4-6L
Weed 5 Name:	SINAR	SINAR	SINAR	SINAR
Height:		8 "	4 "	
Stage:		flower	4L	

Weed Density

	1	2	3	4	5
Date:	Jul-7-2020	Jul-7-2020	Jul-7-2020	Jul-7-2020	Jul-7-2020
Weed Name:	ANGR	CHEAL	AMAPO	AMBEL	SINAR
Density:	23 FT2	1 FT2	1 FT2	3 FT2	

Application Equipment

Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	Spray Volume	Carrier	Operation Pressure
A	CUB	3.8 mph	AIXR	11003	22 "	20 "	100 "	19 GPA	WATER	30 psi
B	CUB	3.8 mph	TTI	11003	23 "	20 "	100 "	19 GPA	WATER	27 psi
C	CUB	3.8 mph	TTI	11003	27 "	20 "	100 "	19 GPA	WATER	27 psi
D	CUB	3.8 mph	TTI	11003	34 "	20 "	100 "	19 GPA	WATER	27 psi

Comments: The common ragweed (AMBEL) population in this trial is resistant to the Group 2 (ALS-inhibiting) herbicides.

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 Project ID: Study Director: Constine, Sprague
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Pest Code	ANGR	CHEAL	AMAPO	AMBEL	SINAR
Crop Type, Code	C GLXMA				
Rating Date	Jun-15-2020	Jun-15-2020	Jun-15-2020	Jun-15-2020	Jun-15-2020
Rating Type	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	23 DA-A	23 DA-A	23 DA-A	23 DA-A	23 DA-A
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Timing	Appl Code						
1	Valor	51	WG	2 oz/a	PRE	A	3	40	99	100	94	91
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	AMS		WG	17 lb/100 gal	POST	C						
2	Valor	51	WG	2 oz/a	PRE	A	3	24	100	100	94	85
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	Class Act Ridion		L	1 % v/v	POST	C						
	Intact		L	0.5 % v/v	POST	C						
3	Valor	51	WG	2 oz/a	PRE	A	3	34	100	100	96	93
	Liberty	2.34	L	32 fl oz/a	POST	C						
	AMS		WG	8.5 lb/100 gal	POST	C						
4	Valor	51	WG	2 oz/a	PRE	A	3	45	100	98	95	89
	Liberty	2.34	L	32 fl oz/a	POST	C						
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	MON 301471		L	1.5 % v/v	POST	C						
5	Valor	51	WG	2 oz/a	PRE	A	3	43	100	99	98	90
	Liberty	2.34	L	32 fl oz/a	POST	C						
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	MON 301471		L	1.5 % v/v	POST	C						
6	Valor	51	WG	2 oz/a	PRE	A	2	36	100	100	95	94
	Liberty	2.34	L	32 fl oz/a	POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	AMS		WG	17 lb/100 gal	POST	C						
7	Untreated						0	0	0	0	0	0
8	Liberty	2.34	L	32 fl oz/a	EPOS	B	0	0	0	0	0	0
	AMS		WG	8.5 lb/100 gal	EPOS	B						
	Liberty	2.34	L	32 fl oz/a	LPOS	D						
	AMS		WG	8.5 lb/100 gal	LPOS	D						
9	Liberty	2.34	L	32 fl oz/a	EPOS	B	0	0	0	0	0	0
	AMS		WG	8.5 lb/100 gal	EPOS	B						
	Roundup PowerMax	4.5	L	32 fl oz/a	LPOS	D						
	AMS		WG	17 lb/100 gal	LPOS	D						
10	Roundup PowerMax	4.5	L	32 fl oz/a	EPOS	B	0	0	0	0	0	0
	AMS		WG	17 lb/100 gal	EPOS	B						
	Liberty	2.34	L	32 fl oz/a	LPOS	D						
	AMS		WG	8.5 lb/100 gal	LPOS	D						
11	XtendiMax	2.9	SL	22 fl oz/a	EPOS	B	0	0	0	0	0	0
	Roundup PowerMax	4.5	SL	32 fl oz/a	EPOS	B						
	Class Act Ridion		L	1 % v/v	EPOS	B						
	Intact		L	0.5 % v/v	EPOS	B						
	XtendiMax	2.9	SL	22 fl oz/a	LPOS	D						
	Roundup PowerMax	4.5	SL	32 fl oz/a	LPOS	D						
	Class Act Ridion		L	1 % v/v	LPOS	D						
	Intact		L	0.5 % v/v	LPOS	D						
12	Liberty	2.34	L	32 fl oz/a	EPOS	B	0	0	0	0	0	0
	XtendiMax	2.9	SL	22 fl oz/a	EPOS	B						
	MON 301471		L	1.5 % v/v	EPOS	B						
	Liberty	2.34	L	32 fl oz/a	LPOS	D						
	XtendiMax	2.9	SL	22 fl oz/a	LPOS	D						
	MON 301471		L	1.5 % v/v	LPOS	D						

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Pest Code						ANGR	CHEAL	AMAPO	AMBEL	SINAR		
Crop Type, Code						C GLXMA						
Rating Date						Jun-15-2020	Jun-15-2020	Jun-15-2020	Jun-15-2020	Jun-15-2020		
Rating Type						injury	control	control	control	control		
Rating Unit						percent	percent	percent	percent	percent		
Trt-Eval Interval						23 DA-A	23 DA-A	23 DA-A	23 DA-A	23 DA-A		
Number of Decimals						0	0	0	0	0		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Timing	Appl Code						
13	Liberty	2.34	L	32 fl oz/a	EPOS	B	0	0	0	0	0	
	AMS		WG	8.5 lb/100 gal	EPOS	B						
	XtendiMax	2.9	SL	22 fl oz/a	LPOS	D						
	Roundup PowerMax	4.5	SL	32 fl oz/a	LPOS	D						
	Class Act Ridion		L	1 % v/v	LPOS	D						
	Intact		L	0.5 % v/v	LPOS	D						
14	XtendiMax	2.9	SL	22 fl oz/a	EPOS	B	0	0	0	0	0	
	Roundup PowerMax	4.5	SL	32 fl oz/a	EPOS	B						
	Class Act Ridion		L	1 % v/v	EPOS	B						
	Intact		L	0.5 % v/v	EPOS	B						
	Liberty	2.34	L	32 fl oz/a	LPOS	D						
	AMS		WG	8.5 lb/100 gal	LPOS	D						
15	Valor	51	WG	2 oz/a	PRE	A	2	40	100	100	91	
	Warrant	3	L	3 pt/a	POST	C						
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	Class Act Ridion		L	1 % v/v	POST	C						
	Intact		L	0.5 % v/v	POST	C						
16	Valor	51	WG	2 oz/a	PRE	A	3	41	100	100	98	
	Warrant	3	L	3 pt/a	POST	C						
	Liberty	2.34	L	32 fl oz/a	POST	C						
	AMS		WG	8.5 lb/100 gal	POST	C						
17	Valor	51	WG	2 oz/a	PRE	A	2	36	100	100	94	
	Warrant	3	L	3 pt/a	POST	C						
	Liberty	2.34	L	32 fl oz/a	POST	C						
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	MON 301471		L	1.5 % v/v	POST	C						
18	Valor	51	WG	2 oz/a	PRE	A	4	50	98	99	93	
	Warrant	3	L	3 pt/a	POST	C						
	Liberty	2.34	L	32 fl oz/a	POST	C						
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	MON 301471		L	1.5 % v/v	POST	C						
	LSD P=.05						1.8	21.3	1.3	2.0	5.4	9.3
	Standard Deviation						1.3	15.0	0.9	1.4	3.8	6.6
	CV						85.43	69.39	1.6	2.59	7.3	13.04

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Crop Type, Code	C GLXMA				
Rating Date	Jun-22-2020	Jun-22-2020	Jun-22-2020	Jun-22-2020	Jun-22-2020
Rating Type	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Timing	Appl Code						
1	Valor	51	WG	2 oz/a	PRE	A	0	20	96	96	86	86
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	AMS		WG	17 lb/100 gal	POST	C						
2	Valor	51	WG	2 oz/a	PRE	A	0	10	98	98	84	84
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	Class Act Ridion		L	1 % v/v	POST	C						
	Intact		L	0.5 % v/v	POST	C						
3	Valor	51	WG	2 oz/a	PRE	A	0	15	95	98	89	90
	Liberty	2.34	L	32 fl oz/a	POST	C						
	AMS		WG	8.5 lb/100 gal	POST	C						
4	Valor	51	WG	2 oz/a	PRE	A	0	33	94	96	87	86
	Liberty	2.34	L	32 fl oz/a	POST	C						
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	MON 301471		L	1.5 % v/v	POST	C						
5	Valor	51	WG	2 oz/a	PRE	A	0	21	96	94	91	88
	Liberty	2.34	L	32 fl oz/a	POST	C						
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	MON 301471		L	1.5 % v/v	POST	C						
6	Valor	51	WG	2 oz/a	PRE	A	0	14	98	98	86	90
	Liberty	2.34	L	32 fl oz/a	POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	AMS		WG	17 lb/100 gal	POST	C						
7	Untreated						0	0	0	0	0	0
8	Liberty	2.34	L	32 fl oz/a	EPOS	B	0	93	100	96	100	99
	AMS		WG	8.5 lb/100 gal	EPOS	B						
	Liberty	2.34	L	32 fl oz/a	LPOS	D						
	AMS		WG	8.5 lb/100 gal	LPOS	D						
9	Liberty	2.34	L	32 fl oz/a	EPOS	B	0	93	98	95	99	98
	AMS		WG	8.5 lb/100 gal	EPOS	B						
	Roundup PowerMax	4.5	L	32 fl oz/a	LPOS	D						
	AMS		WG	17 lb/100 gal	LPOS	D						
10	Roundup PowerMax	4.5	L	32 fl oz/a	EPOS	B	0	99	100	100	95	100
	AMS		WG	17 lb/100 gal	EPOS	B						
	Liberty	2.34	L	32 fl oz/a	LPOS	D						
	AMS		WG	8.5 lb/100 gal	LPOS	D						
11	XtendiMax	2.9	SL	22 fl oz/a	EPOS	B	0	100	100	99	90	100
	Roundup PowerMax	4.5	SL	32 fl oz/a	EPOS	B						
	Class Act Ridion		L	1 % v/v	EPOS	B						
	Intact		L	0.5 % v/v	EPOS	B						
	XtendiMax	2.9	SL	22 fl oz/a	LPOS	D						
	Roundup PowerMax	4.5	SL	32 fl oz/a	LPOS	D						
	Class Act Ridion		L	1 % v/v	LPOS	D						
	Intact		L	0.5 % v/v	LPOS	D						
12	Liberty	2.34	L	32 fl oz/a	EPOS	B	4	79	100	98	100	91
	XtendiMax	2.9	SL	22 fl oz/a	EPOS	B						
	MON 301471		L	1.5 % v/v	EPOS	B						
	Liberty	2.34	L	32 fl oz/a	LPOS	D						
	XtendiMax	2.9	SL	22 fl oz/a	LPOS	D						
	MON 301471		L	1.5 % v/v	LPOS	D						

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Pest Code						ANGR	CHEAL	AMAPO	AMBEL	SINAR		
Crop Type, Code						C GLXMA						
Rating Date						Jun-22-2020	Jun-22-2020	Jun-22-2020	Jun-22-2020	Jun-22-2020		
Rating Type						injury	control	control	control	control		
Rating Unit						percent	percent	percent	percent	percent		
Trt-Eval Interval						7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B		
Number of Decimals						0	0	0	0	0		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Timing	Appl Code						
13	Liberty	2.34	L	32 fl oz/a	EPOS	B	1	94	99	78	99	99
	AMS		WG	8.5 lb/100 gal	EPOS	B						
	XtendiMax	2.9	SL	22 fl oz/a	LPOS	D						
	Roundup PowerMax	4.5	SL	32 fl oz/a	LPOS	D						
	Class Act Ridion		L	1 % v/v	LPOS	D						
	Intact		L	0.5 % v/v	LPOS	D						
14	XtendiMax	2.9	SL	22 fl oz/a	EPOS	B	3	100	100	99	93	100
	Roundup PowerMax	4.5	SL	32 fl oz/a	EPOS	B						
	Class Act Ridion		L	1 % v/v	EPOS	B						
	Intact		L	0.5 % v/v	EPOS	B						
	Liberty	2.34	L	32 fl oz/a	LPOS	D						
	AMS		WG	8.5 lb/100 gal	LPOS	D						
15	Valor	51	WG	2 oz/a	PRE	A	0	24	98	99	74	78
	Warrant	3	L	3 pt/a	POST	C						
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	Class Act Ridion		L	1 % v/v	POST	C						
	Intact		L	0.5 % v/v	POST	C						
16	Valor	51	WG	2 oz/a	PRE	A	0	19	100	98	79	89
	Warrant	3	L	3 pt/a	POST	C						
	Liberty	2.34	L	32 fl oz/a	POST	C						
	AMS		WG	8.5 lb/100 gal	POST	C						
17	Valor	51	WG	2 oz/a	PRE	A	0	19	95	88	73	84
	Warrant	3	L	3 pt/a	POST	C						
	Liberty	2.34	L	32 fl oz/a	POST	C						
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	MON 301471		L	1.5 % v/v	POST	C						
18	Valor	51	WG	2 oz/a	PRE	A	0	26	91	88	70	85
	Warrant	3	L	3 pt/a	POST	C						
	Liberty	2.34	L	32 fl oz/a	POST	C						
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	MON 301471		L	1.5 % v/v	POST	C						
	LSD P=.05						0.6	22.2	5.9	17.3	13.3	12.5
	Standard Deviation						0.4	15.6	4.2	12.2	9.4	8.8
	CV						102.59	32.75	4.55	13.58	11.28	10.29

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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	7 DA-C	7 DA-C	7 DA-C	7 DA-C	7 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	Valor	51	WG	2 oz/a		PRE	A	0	98	100	100	96	100
	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C						
	AMS		WG	17 lb/100 gal		POST	C						
2	Valor	51	WG	2 oz/a		PRE	A	3	97	100	100	95	100
	XtendiMax	2.9	SL	22 fl oz/a		POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C						
	Class Act Ridion		L	1 % v/v		POST	C						
	Intact		L	0.5 % v/v		POST	C						
3	Valor	51	WG	2 oz/a		PRE	A	2	84	99	96	93	98
	Liberty	2.34	L	32 fl oz/a		POST	C						
	AMS		WG	8.5 lb/100 gal		POST	C						
4	Valor	51	WG	2 oz/a		PRE	A	3	76	95	94	93	95
	Liberty	2.34	L	32 fl oz/a		POST	C						
	XtendiMax	2.9	SL	22 fl oz/a		POST	C						
	MON 301471		L	1.5 % v/v		POST	C						
5	Valor	51	WG	2 oz/a		PRE	A	4	99	100	97	96	100
	Liberty	2.34	L	32 fl oz/a		POST	C						
	XtendiMax	2.9	SL	22 fl oz/a		POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C						
	MON 301471		L	1.5 % v/v		POST	C						
6	Valor	51	WG	2 oz/a		PRE	A	2	100	100	99	99	100
	Liberty	2.34	L	32 fl oz/a		POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	C						
	AMS		WG	17 lb/100 gal		POST	C						
7	Untreated							0	0	0	0	0	0
8	Liberty	2.34	L	32 fl oz/a		EPOS	B	0	92	91	90	93	100
	AMS		WG	8.5 lb/100 gal		EPOS	B						
	Liberty	2.34	L	32 fl oz/a		LPOS	D						
	AMS		WG	8.5 lb/100 gal		LPOS	D						
9	Liberty	2.34	L	32 fl oz/a		EPOS	B	0	90	89	88	94	100
	AMS		WG	8.5 lb/100 gal		EPOS	B						
	Roundup PowerMax	4.5	L	32 fl oz/a		LPOS	D						
	AMS		WG	17 lb/100 gal		LPOS	D						
10	Roundup PowerMax	4.5	L	32 fl oz/a		EPOS	B	0	99	96	99	95	100
	AMS		WG	17 lb/100 gal		EPOS	B						
	Liberty	2.34	L	32 fl oz/a		LPOS	D						
	AMS		WG	8.5 lb/100 gal		LPOS	D						
11	XtendiMax	2.9	SL	22 fl oz/a		EPOS	B	0	98	99	98	100	100
	Roundup PowerMax	4.5	SL	32 fl oz/a		EPOS	B						
	Class Act Ridion		L	1 % v/v		EPOS	B						
	Intact		L	0.5 % v/v		EPOS	B						
	XtendiMax	2.9	SL	22 fl oz/a		LPOS	D						
	Roundup PowerMax	4.5	SL	32 fl oz/a		LPOS	D						
	Class Act Ridion		L	1 % v/v		LPOS	D						
	Intact		L	0.5 % v/v		LPOS	D						
12	Liberty	2.34	L	32 fl oz/a		EPOS	B	0	75	99	91	100	100
	XtendiMax	2.9	SL	22 fl oz/a		EPOS	B						
	MON 301471		L	1.5 % v/v		EPOS	B						
	Liberty	2.34	L	32 fl oz/a		LPOS	D						
	XtendiMax	2.9	SL	22 fl oz/a		LPOS	D						
	MON 301471		L	1.5 % v/v		LPOS	D						

Could not calculate LSD (% mean diff) for columns 31,41 because error mean square = 0.

Weed control systems in XtendFlex soybean - "Stewarded"

Trial ID: SOY09-20 Location: Campus, T-12 Trial Year: 2020
 Protocol ID: SOY09-20 Investigator (Creator): Christy Sprague
 Project ID: Study Director: Constine, Sprague
 Sponsor Contact:

Pest Code						ANGR	CHEAL	AMAPO	AMBEL	SINAR		
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						7 DA-C	7 DA-C	7 DA-C	7 DA-C	7 DA-C		
Number of Decimals						0	0	0	0	0		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Timing	Appl Code						
13	Liberty	2.34	L	32 fl oz/a	EPOS	B	0	92	98	95	96	100
	AMS		WG	8.5 lb/100 gal	EPOS	B						
	XtendiMax	2.9	SL	22 fl oz/a	LPOS	D						
	Roundup PowerMax	4.5	SL	32 fl oz/a	LPOS	D						
	Class Act Ridion		L	1 % v/v	LPOS	D						
	Intact		L	0.5 % v/v	LPOS	D						
14	XtendiMax	2.9	SL	22 fl oz/a	EPOS	B	0	98	100	98	100	100
	Roundup PowerMax	4.5	SL	32 fl oz/a	EPOS	B						
	Class Act Ridion		L	1 % v/v	EPOS	B						
	Intact		L	0.5 % v/v	EPOS	B						
	Liberty	2.34	L	32 fl oz/a	LPOS	D						
	AMS		WG	8.5 lb/100 gal	LPOS	D						
15	Valor	51	WG	2 oz/a	PRE	A	3	97	100	99	96	100
	Warrant	3	L	3 pt/a	POST	C						
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	Class Act Ridion		L	1 % v/v	POST	C						
	Intact		L	0.5 % v/v	POST	C						
16	Valor	51	WG	2 oz/a	PRE	A	2	82	100	100	75	100
	Warrant	3	L	3 pt/a	POST	C						
	Liberty	2.34	L	32 fl oz/a	POST	C						
	AMS		WG	8.5 lb/100 gal	POST	C						
17	Valor	51	WG	2 oz/a	PRE	A	4	73	99	93	96	100
	Warrant	3	L	3 pt/a	POST	C						
	Liberty	2.34	L	32 fl oz/a	POST	C						
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	MON 301471		L	1.5 % v/v	POST	C						
18	Valor	51	WG	2 oz/a	PRE	A	4	96	100	97	94	100
	Warrant	3	L	3 pt/a	POST	C						
	Liberty	2.34	L	32 fl oz/a	POST	C						
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	MON 301471		L	1.5 % v/v	POST	C						
	LSD P=.05						1.2	7.4	3.1	5.8	15.6	2.5
	Standard Deviation						0.8	5.2	2.2	4.1	11.0	1.8
	CV						58.22	6.05	2.34	4.5	12.26	1.88

Could not calculate LSD (% mean diff) for columns 31,41 because error mean square = 0.

Weed control systems in XtendFlex soybean - "Stewarded"

Trial ID: SOY09-20 Location: Campus, T-12 Trial Year: 2020
 Protocol ID: SOY09-20 Investigator (Creator): Christy Sprague
 Project ID: Study Director: Constine, Sprague
 Sponsor Contact:

Pest Code	ANGR	CHEAL	AMAPO	AMBEL	SINAR	C	GLXMA
Crop Type, Code	Jul-7-2020	Jul-7-2020	Jul-7-2020	Jul-7-2020	Jul-7-2020	Jul-7-2020	Jul-13-2020
Rating Date	injury	control	control	control	control	control	control
Rating Type	percent	percent	percent	percent	percent	percent	percent
Rating Unit	15 DA-C	15 DA-C	15 DA-C	15 DA-C	15 DA-C	15 DA-C	6 DA-D
Trt-Eval Interval	0	0	0	0	0	0	0
Number of Decimals							

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Timing	Appl Code							
1	Valor	51	WG	2 oz/a	PRE	A	0	100	99	100	100	100	0
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C							
	AMS		WG	17 lb/100 gal	POST	C							
2	Valor	51	WG	2 oz/a	PRE	A	0	100	100	100	100	100	0
	XtendiMax	2.9	SL	22 fl oz/a	POST	C							
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C							
	Class Act Ridion		L	1 % v/v	POST	C							
	Intact		L	0.5 % v/v	POST	C							
3	Valor	51	WG	2 oz/a	PRE	A	0	96	99	95	93	100	0
	Liberty	2.34	L	32 fl oz/a	POST	C							
	AMS		WG	8.5 lb/100 gal	POST	C							
4	Valor	51	WG	2 oz/a	PRE	A	0	79	96	89	91	100	0
	Liberty	2.34	L	32 fl oz/a	POST	C							
	XtendiMax	2.9	SL	22 fl oz/a	POST	C							
	MON 301471		L	1.5 % v/v	POST	C							
5	Valor	51	WG	2 oz/a	PRE	A	0	100	100	96	99	100	0
	Liberty	2.34	L	32 fl oz/a	POST	C							
	XtendiMax	2.9	SL	22 fl oz/a	POST	C							
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C							
	MON 301471		L	1.5 % v/v	POST	C							
6	Valor	51	WG	2 oz/a	PRE	A	0	100	100	100	98	100	0
	Liberty	2.34	L	32 fl oz/a	POST	C							
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C							
	AMS		WG	17 lb/100 gal	POST	C							
7	Untreated						0	0	0	0	0	0	0
8	Liberty	2.34	L	32 fl oz/a	EPOS	B	0	85	86	79	90	100	1
	AMS		WG	8.5 lb/100 gal	EPOS	B							
	Liberty	2.34	L	32 fl oz/a	LPOS	D							
	AMS		WG	8.5 lb/100 gal	LPOS	D							
9	Liberty	2.34	L	32 fl oz/a	EPOS	B	0	80	85	85	90	100	0
	AMS		WG	8.5 lb/100 gal	EPOS	B							
	Roundup PowerMax	4.5	L	32 fl oz/a	LPOS	D							
	AMS		WG	17 lb/100 gal	LPOS	D							
10	Roundup PowerMax	4.5	L	32 fl oz/a	EPOS	B	0	95	90	94	95	100	0
	AMS		WG	17 lb/100 gal	EPOS	B							
	Liberty	2.34	L	32 fl oz/a	LPOS	D							
	AMS		WG	8.5 lb/100 gal	LPOS	D							
11	XtendiMax	2.9	SL	22 fl oz/a	EPOS	B	0	95	99	96	99	100	4
	Roundup PowerMax	4.5	SL	32 fl oz/a	EPOS	B							
	Class Act Ridion		L	1 % v/v	EPOS	B							
	Intact		L	0.5 % v/v	EPOS	B							
	XtendiMax	2.9	SL	22 fl oz/a	LPOS	D							
	Roundup PowerMax	4.5	SL	32 fl oz/a	LPOS	D							
	Class Act Ridion		L	1 % v/v	LPOS	D							
	Intact		L	0.5 % v/v	LPOS	D							
12	Liberty	2.34	L	32 fl oz/a	EPOS	B	0	58	94	83	100	100	3
	XtendiMax	2.9	SL	22 fl oz/a	EPOS	B							
	MON 301471		L	1.5 % v/v	EPOS	B							
	Liberty	2.34	L	32 fl oz/a	LPOS	D							
	XtendiMax	2.9	SL	22 fl oz/a	LPOS	D							
	MON 301471		L	1.5 % v/v	LPOS	D							

Could not calculate LSD (% mean diff) for columns 31,41 because error mean square = 0.

Weed control systems in XtendFlex soybean - "Stewarded"

Trial ID: SOY09-20 Location: Campus, T-12 Trial Year: 2020
 Protocol ID: SOY09-20 Investigator (Creator): Christy Sprague
 Project ID: Study Director: Constine, Sprague
 Sponsor Contact:

Pest Code						ANGR	CHEAL	AMAPO	AMBEL	SINAR			
Crop Type, Code	C	GLXMA									C	GLXMA	
Rating Date	Jul-7-2020	Jul-7-2020	Jul-7-2020	Jul-7-2020	Jul-7-2020	Jul-7-2020	Jul-7-2020	Jul-7-2020	Jul-7-2020	Jul-7-2020	Jul-13-2020	Jul-13-2020	
Rating Type	injury	control	control	control	control	control	control	control	control	control	control	control	
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent	percent	percent	percent	percent	
Trt-Eval Interval	15 DA-C	15 DA-C	15 DA-C	15 DA-C	15 DA-C	15 DA-C	15 DA-C	15 DA-C	15 DA-C	15 DA-C	15 DA-C	6 DA-D	
Number of Decimals	0	0	0	0	0	0	0	0	0	0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Timing	Appl Code							
13	Liberty	2.34	L	32 fl oz/a	EPOS	B	0	83	93	93	95	100	2
	AMS		WG	8.5 lb/100 gal	EPOS	B							
	XtendiMax	2.9	SL	22 fl oz/a	LPOS	D							
	Roundup PowerMax	4.5	SL	32 fl oz/a	LPOS	D							
	Class Act Ridion		L	1 % v/v	LPOS	D							
	Intact		L	0.5 % v/v	LPOS	D							
14	XtendiMax	2.9	SL	22 fl oz/a	EPOS	B	0	93	98	94	99	100	0
	Roundup PowerMax	4.5	SL	32 fl oz/a	EPOS	B							
	Class Act Ridion		L	1 % v/v	EPOS	B							
	Intact		L	0.5 % v/v	EPOS	B							
	Liberty	2.34	L	32 fl oz/a	LPOS	D							
	AMS		WG	8.5 lb/100 gal	LPOS	D							
15	Valor	51	WG	2 oz/a	PRE	A	0	100	100	100	100	100	0
	Warrant	3	L	3 pt/a	POST	C							
	XtendiMax	2.9	SL	22 fl oz/a	POST	C							
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C							
	Class Act Ridion		L	1 % v/v	POST	C							
	Intact		L	0.5 % v/v	POST	C							
16	Valor	51	WG	2 oz/a	PRE	A	2	96	98	100	93	100	0
	Warrant	3	L	3 pt/a	POST	C							
	Liberty	2.34	L	32 fl oz/a	POST	C							
	AMS		WG	8.5 lb/100 gal	POST	C							
17	Valor	51	WG	2 oz/a	PRE	A	4	64	100	96	98	100	0
	Warrant	3	L	3 pt/a	POST	C							
	Liberty	2.34	L	32 fl oz/a	POST	C							
	XtendiMax	2.9	SL	22 fl oz/a	POST	C							
	MON 301471		L	1.5 % v/v	POST	C							
18	Valor	51	WG	2 oz/a	PRE	A	5	99	100	98	99	98	0
	Warrant	3	L	3 pt/a	POST	C							
	Liberty	2.34	L	32 fl oz/a	POST	C							
	XtendiMax	2.9	SL	22 fl oz/a	POST	C							
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C							
	MON 301471		L	1.5 % v/v	POST	C							
LSD P=.05							0.8	11.7	4.6	7.2	5.8	1.7	1.2
Standard Deviation							0.5	8.2	3.3	5.1	4.1	1.2	0.9
CV							98.34	9.75	3.58	5.73	4.47	1.25	165.69

Could not calculate LSD (% mean diff) for columns 31,41 because error mean square = 0.

Weed control systems in XtendFlex soybean - "Stewarded"

Trial ID: SOY09-20 Location: Campus, T-12 Trial Year: 2020
 Protocol ID: SOY09-20 Investigator (Creator): Christy Sprague
 Project ID: Study Director: Constine, Sprague
 Sponsor Contact:

Pest Code	ANGR	CHEAL	AMAPO	AMBEL	SINAR	C GLXMA
Crop Type, Code	Jul-13-2020	Jul-13-2020	Jul-13-2020	Jul-13-2020	Jul-13-2020	Jul-20-2020
Rating Date	control	control	control	control	control	control
Rating Type	percent	percent	percent	percent	percent	percent
Rating Unit	6 DA-D	6 DA-D	6 DA-D	6 DA-D	6 DA-D	13 DA-D
Trt-Eval Interval	0	0	0	0	0	0
Number of Decimals						

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Timing	Appl Code	ANGR	CHEAL	AMAPO	AMBEL	SINAR	C GLXMA
1	Valor	51	WG	2 oz/a	PRE	A	98	99	98	98	100	0
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	AMS		WG	17 lb/100 gal	POST	C						
2	Valor	51	WG	2 oz/a	PRE	A	93	100	100	100	100	0
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	Class Act Ridion		L	1 % v/v	POST	C						
	Intact		L	0.5 % v/v	POST	C						
3	Valor	51	WG	2 oz/a	PRE	A	90	94	90	87	96	0
	Liberty	2.34	L	32 fl oz/a	POST	C						
	AMS		WG	8.5 lb/100 gal	POST	C						
4	Valor	51	WG	2 oz/a	PRE	A	66	98	88	94	96	0
	Liberty	2.34	L	32 fl oz/a	POST	C						
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	MON 301471		L	1.5 % v/v	POST	C						
5	Valor	51	WG	2 oz/a	PRE	A	95	100	94	98	100	0
	Liberty	2.34	L	32 fl oz/a	POST	C						
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	MON 301471		L	1.5 % v/v	POST	C						
6	Valor	51	WG	2 oz/a	PRE	A	95	98	98	94	99	0
	Liberty	2.34	L	32 fl oz/a	POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	AMS		WG	17 lb/100 gal	POST	C						
7	Untreated						0	0	0	0	0	0
8	Liberty	2.34	L	32 fl oz/a	EPOS	B	91	96	100	100	100	0
	AMS		WG	8.5 lb/100 gal	EPOS	B						
	Liberty	2.34	L	32 fl oz/a	LPOS	D						
	AMS		WG	8.5 lb/100 gal	LPOS	D						
9	Liberty	2.34	L	32 fl oz/a	EPOS	B	88	91	98	98	100	0
	AMS		WG	8.5 lb/100 gal	EPOS	B						
	Roundup PowerMax	4.5	L	32 fl oz/a	LPOS	D						
	AMS		WG	17 lb/100 gal	LPOS	D						
10	Roundup PowerMax	4.5	L	32 fl oz/a	EPOS	B	98	100	100	100	100	0
	AMS		WG	17 lb/100 gal	EPOS	B						
	Liberty	2.34	L	32 fl oz/a	LPOS	D						
	AMS		WG	8.5 lb/100 gal	LPOS	D						
11	XtendiMax	2.9	SL	22 fl oz/a	EPOS	B	98	100	99	100	100	0
	Roundup PowerMax	4.5	SL	32 fl oz/a	EPOS	B						
	Class Act Ridion		L	1 % v/v	EPOS	B						
	Intact		L	0.5 % v/v	EPOS	B						
	XtendiMax	2.9	SL	22 fl oz/a	LPOS	D						
	Roundup PowerMax	4.5	SL	32 fl oz/a	LPOS	D						
	Class Act Ridion		L	1 % v/v	LPOS	D						
	Intact		L	0.5 % v/v	LPOS	D						
12	Liberty	2.34	L	32 fl oz/a	EPOS	B	76	99	95	100	98	0
	XtendiMax	2.9	SL	22 fl oz/a	EPOS	B						
	MON 301471		L	1.5 % v/v	EPOS	B						
	Liberty	2.34	L	32 fl oz/a	LPOS	D						
	XtendiMax	2.9	SL	22 fl oz/a	LPOS	D						
	MON 301471		L	1.5 % v/v	LPOS	D						

Could not calculate LSD (% mean diff) for columns 31,41 because error mean square = 0.

Weed control systems in XtendFlex soybean - "Stewarded"

Trial ID: SOY09-20 Location: Campus, T-12 Trial Year: 2020
 Protocol ID: SOY09-20 Investigator (Creator): Christy Sprague
 Project ID: Study Director: Constine, Sprague
 Sponsor Contact:

Pest Code		ANGR	CHEAL	AMAPO	AMBEL	SINAR	C	GLXMA				
Crop Type, Code												
Rating Date		Jul-13-2020	Jul-13-2020	Jul-13-2020	Jul-13-2020	Jul-13-2020	Jul-20-2020					
Rating Type		control	control	control	control	control	control					
Rating Unit		percent	percent	percent	percent	percent	percent					
Trt-Eval Interval		6 DA-D	6 DA-D	6 DA-D	6 DA-D	6 DA-D	13 DA-D					
Number of Decimals		0	0	0	0	0	0					
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Timing	Appl Code						
13	Liberty	2.34	L	32 fl oz/a	EPOS	B	91	98	100	100	100	0
	AMS		WG	8.5 lb/100 gal	EPOS	B						
	XtendiMax	2.9	SL	22 fl oz/a	LPOS	D						
	Roundup PowerMax	4.5	SL	32 fl oz/a	LPOS	D						
	Class Act Ridion		L	1 % v/v	LPOS	D						
	Intact		L	0.5 % v/v	LPOS	D						
14	XtendiMax	2.9	SL	22 fl oz/a	EPOS	B	98	100	100	100	100	0
	Roundup PowerMax	4.5	SL	32 fl oz/a	EPOS	B						
	Class Act Ridion		L	1 % v/v	EPOS	B						
	Intact		L	0.5 % v/v	EPOS	B						
	Liberty	2.34	L	32 fl oz/a	LPOS	D						
	AMS		WG	8.5 lb/100 gal	LPOS	D						
15	Valor	51	WG	2 oz/a	PRE	A	98	100	100	100	100	0
	Warrant	3	L	3 pt/a	POST	C						
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	Class Act Ridion		L	1 % v/v	POST	C						
	Intact		L	0.5 % v/v	POST	C						
16	Valor	51	WG	2 oz/a	PRE	A	90	92	93	88	100	0
	Warrant	3	L	3 pt/a	POST	C						
	Liberty	2.34	L	32 fl oz/a	POST	C						
	AMS		WG	8.5 lb/100 gal	POST	C						
17	Valor	51	WG	2 oz/a	PRE	A	54	99	98	95	100	0
	Warrant	3	L	3 pt/a	POST	C						
	Liberty	2.34	L	32 fl oz/a	POST	C						
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	MON 301471		L	1.5 % v/v	POST	C						
18	Valor	51	WG	2 oz/a	PRE	A	96	100	99	100	100	0
	Warrant	3	L	3 pt/a	POST	C						
	Liberty	2.34	L	32 fl oz/a	POST	C						
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	MON 301471		L	1.5 % v/v	POST	C						
	LSD P=.05						8.3	4.4	9.4	5.6	3.1	.
	Standard Deviation						5.9	3.1	6.6	3.9	2.2	0.0
	CV						6.97	3.37	7.24	4.3	2.32	0.0

Could not calculate LSD (% mean diff) for columns 31,41 because error mean square = 0.

Weed control systems in XtendFlex soybean - "Stewarded"

Trial ID: SOY09-20 Location: Campus, T-12 Trial Year: 2020
 Protocol ID: SOY09-20 Investigator (Creator): Christy Sprague
 Project ID: Study Director: Constine, Sprague
 Sponsor Contact:

Pest Code	ANGR	CHEAL	AMAPO	AMBEL	SINAR	ANGR
Crop Type, Code						
Rating Date	Jul-20-2020	Jul-20-2020	Jul-20-2020	Jul-20-2020	Jul-20-2020	Oct-6-2020
Rating Type	control	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	13 DA-D	13 DA-D	13 DA-D	13 DA-D	13 DA-D	91 DA-D
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Timing	Appl Code						
1	Valor	51	WG	2 oz/a	PRE	A	98	100	98	100	100	95
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	AMS		WG	17 lb/100 gal	POST	C						
2	Valor	51	WG	2 oz/a	PRE	A	89	100	100	100	100	90
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	Class Act Ridion		L	1 % v/v	POST	C						
	Intact		L	0.5 % v/v	POST	C						
3	Valor	51	WG	2 oz/a	PRE	A	87	93	87	83	98	83
	Liberty	2.34	L	32 fl oz/a	POST	C						
	AMS		WG	8.5 lb/100 gal	POST	C						
4	Valor	51	WG	2 oz/a	PRE	A	58	95	89	93	96	58
	Liberty	2.34	L	32 fl oz/a	POST	C						
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	MON 301471		L	1.5 % v/v	POST	C						
5	Valor	51	WG	2 oz/a	PRE	A	93	100	94	99	100	94
	Liberty	2.34	L	32 fl oz/a	POST	C						
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	MON 301471		L	1.5 % v/v	POST	C						
6	Valor	51	WG	2 oz/a	PRE	A	95	99	98	95	100	94
	Liberty	2.34	L	32 fl oz/a	POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	AMS		WG	17 lb/100 gal	POST	C						
7	Untreated						0	0	0	0	0	0
8	Liberty	2.34	L	32 fl oz/a	EPOS	B	100	100	100	100	100	95
	AMS		WG	8.5 lb/100 gal	EPOS	B						
	Liberty	2.34	L	32 fl oz/a	LPOS	D						
	AMS		WG	8.5 lb/100 gal	LPOS	D						
9	Liberty	2.34	L	32 fl oz/a	EPOS	B	100	100	100	100	100	99
	AMS		WG	8.5 lb/100 gal	EPOS	B						
	Roundup PowerMax	4.5	L	32 fl oz/a	LPOS	D						
	AMS		WG	17 lb/100 gal	LPOS	D						
10	Roundup PowerMax	4.5	L	32 fl oz/a	EPOS	B	98	100	100	100	100	96
	AMS		WG	17 lb/100 gal	EPOS	B						
	Liberty	2.34	L	32 fl oz/a	LPOS	D						
	AMS		WG	8.5 lb/100 gal	LPOS	D						
11	XtendiMax	2.9	SL	22 fl oz/a	EPOS	B	100	100	100	100	100	100
	Roundup PowerMax	4.5	SL	32 fl oz/a	EPOS	B						
	Class Act Ridion		L	1 % v/v	EPOS	B						
	Intact		L	0.5 % v/v	EPOS	B						
	XtendiMax	2.9	SL	22 fl oz/a	LPOS	D						
	Roundup PowerMax	4.5	SL	32 fl oz/a	LPOS	D						
	Class Act Ridion		L	1 % v/v	LPOS	D						
	Intact		L	0.5 % v/v	LPOS	D						
12	Liberty	2.34	L	32 fl oz/a	EPOS	B	95	100	100	100	100	95
	XtendiMax	2.9	SL	22 fl oz/a	EPOS	B						
	MON 301471		L	1.5 % v/v	EPOS	B						
	Liberty	2.34	L	32 fl oz/a	LPOS	D						
	XtendiMax	2.9	SL	22 fl oz/a	LPOS	D						
	MON 301471		L	1.5 % v/v	LPOS	D						

Could not calculate LSD (% mean diff) for columns 31,41 because error mean square = 0.

Weed control systems in XtendFlex soybean - "Stewarded"

Trial ID: SOY09-20 Location: Campus, T-12 Trial Year: 2020
 Protocol ID: SOY09-20 Investigator (Creator): Christy Sprague
 Project ID: Study Director: Constine, Sprague
 Sponsor Contact:

Pest Code		ANGR	CHEAL	AMAPO	AMBEL	SINAR	ANGR					
Crop Type, Code												
Rating Date		Jul-20-2020	Jul-20-2020	Jul-20-2020	Jul-20-2020	Jul-20-2020	Oct-6-2020					
Rating Type		control	control	control	control	control	control					
Rating Unit		percent	percent	percent	percent	percent	percent					
Trt-Eval Interval		13 DA-D	13 DA-D	13 DA-D	13 DA-D	13 DA-D	91 DA-D					
Number of Decimals		0	0	0	0	0	0					
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Timing	Appl Code						
13	Liberty	2.34	L	32 fl oz/a	EPOS	B	100	100	100	100	100	99
	AMS		WG	8.5 lb/100 gal	EPOS	B						
	XtendiMax	2.9	SL	22 fl oz/a	LPOS	D						
	Roundup PowerMax	4.5	SL	32 fl oz/a	LPOS	D						
	Class Act Ridion		L	1 % v/v	LPOS	D						
	Intact		L	0.5 % v/v	LPOS	D						
14	XtendiMax	2.9	SL	22 fl oz/a	EPOS	B	100	100	100	100	100	99
	Roundup PowerMax	4.5	SL	32 fl oz/a	EPOS	B						
	Class Act Ridion		L	1 % v/v	EPOS	B						
	Intact		L	0.5 % v/v	EPOS	B						
	Liberty	2.34	L	32 fl oz/a	LPOS	D						
	AMS		WG	8.5 lb/100 gal	LPOS	D						
15	Valor	51	WG	2 oz/a	PRE	A	96	100	100	100	100	97
	Warrant	3	L	3 pt/a	POST	C						
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	Class Act Ridion		L	1 % v/v	POST	C						
	Intact		L	0.5 % v/v	POST	C						
16	Valor	51	WG	2 oz/a	PRE	A	85	93	93	86	100	83
	Warrant	3	L	3 pt/a	POST	C						
	Liberty	2.34	L	32 fl oz/a	POST	C						
	AMS		WG	8.5 lb/100 gal	POST	C						
17	Valor	51	WG	2 oz/a	PRE	A	48	98	98	93	100	56
	Warrant	3	L	3 pt/a	POST	C						
	Liberty	2.34	L	32 fl oz/a	POST	C						
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	MON 301471		L	1.5 % v/v	POST	C						
18	Valor	51	WG	2 oz/a	PRE	A	96	100	99	99	100	95
	Warrant	3	L	3 pt/a	POST	C						
	Liberty	2.34	L	32 fl oz/a	POST	C						
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	MON 301471		L	1.5 % v/v	POST	C						
	LSD P=.05						7.6	3.9	10.0	5.6	3.0	8.1
	Standard Deviation						5.4	2.7	7.1	4.0	2.1	5.7
	CV						6.3	2.92	7.68	4.34	2.28	6.72

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Weed control systems in XtendFlex soybean - "Stewarded"

Trial ID: SOY09-20 Location: Campus, T-12 Trial Year: 2020
 Protocol ID: SOY09-20 Investigator (Creator): Christy Sprague
 Project ID: Study Director: Constine, Sprague
 Sponsor Contact:

Pest Code	CHEAL	AMAPO	AMBEL	SINAR	C GLXMA	C GLXMA
Crop Type, Code					Oct-13-2020	Oct-13-2020
Rating Date	Oct-6-2020	Oct-6-2020	Oct-6-2020	Oct-6-2020	moisture	yield
Rating Type	control	control	control	control	percent	bu/A
Rating Unit	percent	percent	percent	percent		
Trt-Eval Interval	91 DA-D	91 DA-D	91 DA-D	91 DA-D	120 DA-B	at 13%M
Number of Decimals	0	0	0	0	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Timing	Appl Code						
1	Valor	51	WG	2 oz/a	PRE	A	97	99	100	100	13.4	62.0
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	AMS		WG	17 lb/100 gal	POST	C						
2	Valor	51	WG	2 oz/a	PRE	A	99	100	100	100	14.5	63.0
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	Class Act Ridion		L	1 % v/v	POST	C						
	Intact		L	0.5 % v/v	POST	C						
3	Valor	51	WG	2 oz/a	PRE	A	88	89	85	100	14.0	63.4
	Liberty	2.34	L	32 fl oz/a	POST	C						
	AMS		WG	8.5 lb/100 gal	POST	C						
4	Valor	51	WG	2 oz/a	PRE	A	93	92	98	100	13.7	59.1
	Liberty	2.34	L	32 fl oz/a	POST	C						
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	MON 301471		L	1.5 % v/v	POST	C						
5	Valor	51	WG	2 oz/a	PRE	A	99	97	100	100	13.0	59.4
	Liberty	2.34	L	32 fl oz/a	POST	C						
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	MON 301471		L	1.5 % v/v	POST	C						
6	Valor	51	WG	2 oz/a	PRE	A	99	100	96	100	14.7	63.8
	Liberty	2.34	L	32 fl oz/a	POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	AMS		WG	17 lb/100 gal	POST	C						
7	Untreated						0	0	0	0	26.9	12.3
8	Liberty	2.34	L	32 fl oz/a	EPOS	B	95	97	99	100	13.1	62.9
	AMS		WG	8.5 lb/100 gal	EPOS	B						
	Liberty	2.34	L	32 fl oz/a	LPOS	D						
	AMS		WG	8.5 lb/100 gal	LPOS	D						
9	Liberty	2.34	L	32 fl oz/a	EPOS	B	100	100	100	100	13.3	64.3
	AMS		WG	8.5 lb/100 gal	EPOS	B						
	Roundup PowerMax	4.5	L	32 fl oz/a	LPOS	D						
	AMS		WG	17 lb/100 gal	LPOS	D						
10	Roundup PowerMax	4.5	L	32 fl oz/a	EPOS	B	99	100	100	100	12.8	64.7
	AMS		WG	17 lb/100 gal	EPOS	B						
	Liberty	2.34	L	32 fl oz/a	LPOS	D						
	AMS		WG	8.5 lb/100 gal	LPOS	D						
11	XtendiMax	2.9	SL	22 fl oz/a	EPOS	B	100	100	100	100	12.9	61.5
	Roundup PowerMax	4.5	SL	32 fl oz/a	EPOS	B						
	Class Act Ridion		L	1 % v/v	EPOS	B						
	Intact		L	0.5 % v/v	EPOS	B						
	XtendiMax	2.9	SL	22 fl oz/a	LPOS	D						
	Roundup PowerMax	4.5	SL	32 fl oz/a	LPOS	D						
	Class Act Ridion		L	1 % v/v	LPOS	D						
	Intact		L	0.5 % v/v	LPOS	D						
12	Liberty	2.34	L	32 fl oz/a	EPOS	B	100	100	100	100	12.8	58.6
	XtendiMax	2.9	SL	22 fl oz/a	EPOS	B						
	MON 301471		L	1.5 % v/v	EPOS	B						
	Liberty	2.34	L	32 fl oz/a	LPOS	D						
	XtendiMax	2.9	SL	22 fl oz/a	LPOS	D						
	MON 301471		L	1.5 % v/v	LPOS	D						

Could not calculate LSD (% mean diff) for columns 31,41 because error mean square = 0.

Weed control systems in XtendFlex soybean - "Stewarded"

Trial ID: SOY09-20 Location: Campus, T-12 Trial Year: 2020
 Protocol ID: SOY09-20 Investigator (Creator): Christy Sprague
 Project ID: Study Director: Constine, Sprague
 Sponsor Contact:

Pest Code	CHEAL	AMAPO	AMBEL	SINAR	C GLXMA	C GLXMA						
Crop Type, Code	Oct-6-2020	Oct-6-2020	Oct-6-2020	Oct-6-2020	Oct-13-2020	Oct-13-2020						
Rating Date	control	control	control	control	moisture	yield						
Rating Type	percent	percent	percent	percent	percent	bu/A						
Rating Unit	91 DA-D	91 DA-D	91 DA-D	91 DA-D	120 DA-B	at 13%M						
Trt-Eval Interval	0	0	0	0	1	1						
Number of Decimals	0	0	0	0	1	1						
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Timing	Appl Code						
13	Liberty	2.34	L	32 fl oz/a	EPOS	B	100	100	100	100	13.1	60.7
	AMS		WG	8.5 lb/100 gal	EPOS	B						
	XtendiMax	2.9	SL	22 fl oz/a	LPOS	D						
	Roundup PowerMax	4.5	SL	32 fl oz/a	LPOS	D						
	Class Act Ridion		L	1 % v/v	LPOS	D						
	Intact		L	0.5 % v/v	LPOS	D						
14	XtendiMax	2.9	SL	22 fl oz/a	EPOS	B	100	100	100	100	12.8	63.9
	Roundup PowerMax	4.5	SL	32 fl oz/a	EPOS	B						
	Class Act Ridion		L	1 % v/v	EPOS	B						
	Intact		L	0.5 % v/v	EPOS	B						
	Liberty	2.34	L	32 fl oz/a	LPOS	D						
	AMS		WG	8.5 lb/100 gal	LPOS	D						
15	Valor	51	WG	2 oz/a	PRE	A	100	100	100	100	13.0	63.3
	Warrant	3	L	3 pt/a	POST	C						
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	Class Act Ridion		L	1 % v/v	POST	C						
	Intact		L	0.5 % v/v	POST	C						
16	Valor	51	WG	2 oz/a	PRE	A	89	96	87	100	12.6	64.9
	Warrant	3	L	3 pt/a	POST	C						
	Liberty	2.34	L	32 fl oz/a	POST	C						
	AMS		WG	8.5 lb/100 gal	POST	C						
17	Valor	51	WG	2 oz/a	PRE	A	97	100	98	100	14.9	59.0
	Warrant	3	L	3 pt/a	POST	C						
	Liberty	2.34	L	32 fl oz/a	POST	C						
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	MON 301471		L	1.5 % v/v	POST	C						
18	Valor	51	WG	2 oz/a	PRE	A	100	100	100	100	12.5	61.5
	Warrant	3	L	3 pt/a	POST	C						
	Liberty	2.34	L	32 fl oz/a	POST	C						
	XtendiMax	2.9	SL	22 fl oz/a	POST	C						
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C						
	MON 301471		L	1.5 % v/v	POST	C						
	LSD P=.05						3.2	5.2	4.4	.	3.10	6.96
	Standard Deviation						2.3	3.7	3.1	0.0	2.18	4.90
	CV						2.48	3.97	3.35	0.0	15.49	8.26

Could not calculate LSD (% mean diff) for columns 31,41 because error mean square = 0.