

Weed control options in LibertyLink GT27 soybean with Alite

Trial ID: SOY04-19 Study Dir.: Sprague, Powell, Stiles
 Conducted: Campus, C-14 Investigator: Christy Sprague

Planting Date: May-15-2019 **Row Spacing:** 30 IN
Variety: Credenz CZ 2579 GTLL **No. of Reps:** 4
Population: 155000 seeds/A **% OM:** 3.1
Soil Type: L loam **pH:** 6.2
Plot Size: 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: 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	lambquarters, common	Chenopodium album
3	AMAPO	amaranth, Powell	Amaranthus powellii
4	AMBEL	ragweed, common	Ambrosia artemisiifolia
5	SINAR	mustard, wild	Sinapis arvensis
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-15-2019	Jun-26-2019	Jul-9-2019
Time Treated:	12:15 PM	10:15 AM	10:40 AM
% Cloud Cover:	20	10	0
Air Temp., Unit:	65 F	74 F	70 F
% Relative Humidity:	50	63	71
Wind Speed/Unit/Dir:	8.5 mph W	8 mph W	2 mph SW
Soil Temp, Unit:	55 F	74 F	73 F
Leaf Moist/Dew Presence (Y/N):	5	2	5
Soil Moist:	5	3	5

Crop Stage at Each Application

	A	B	C
Crop 1 Name:	GLXMA	GLXMA	GLXMA
Height:		8 "	12 "
Stage:		V3	V8

Weed Stage at Each Application

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

Weed Density

	1	2	3	4	5	6
Date:	Jun-26-2019	Jun-26-2019	Jun-26-2019	Jun-26-2019	Jun-26-2019	Jun-26-2019
Weed Name:	ANGR	CHEAL	AMAPO	AMBEL	SINAR	ABUTH
Density:	91 ft2	3 ft2	1 ft2	20 ft2	1 ft2	1 ft2

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Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Application Equipment			Spray Volume	Carrier	Operation Pressure
					Nozzle Height	Nozzle Spacing	Boom Width			
A	CUB	3.8 mph	AIXR	11003	24 "	20 "	100 "	19 GPA	WATER	30 psi
B	CUB	3.8 mph	AIXR	11003	30 "	20 "	100 "	19 GPA	WATER	30 psi
C	CUB	3.8 mph	AIXR	11003	38 "	20 "	100 "	19 GPA	WATER	30 psi

Comments:

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Trial ID: SOY04-19

Location: Campus, C-14

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	GLXMA	ANGR	CHEAL	AMAPO	AMBEL
Crop Type, Code	Jun-24-2019	Jun-24-2019	Jun-24-2019	Jun-24-2019	Jun-24-2019
Rating Date	injury	control	control	control	control
Rating Type	percent	percent	percent	percent	percent
Rating Unit	40 DA-A	40 DA-A	40 DA-A	40 DA-A	40 DA-A
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					
1	Zidua SC	4.17 L		4 fl oz/a		PRE	A	0	98	100	100	71
1	Liberty	2.34 L		32 fl oz/a		POST	B					
1	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
1	AMS	WG		3 lb/a		POST	B					
2	Zidua SC	4.17 L		4 fl oz/a		PRE	A	2	100	100	100	98
2	Alite 27	4 L		2 fl oz/a		PRE	A					
2	Liberty	2.34 L		32 fl oz/a		LPOS	C					
2	Roundup PowerMax	4.5 SL		32 fl oz/a		LPOS	C					
2	AMS	WG		3 lb/a		LPOS	C					
3	Untreated							0	0	0	0	0
4	Zidua PRO	4.09 L		4.5 fl oz/a		PRE	A	3	97	100	100	78
4	Liberty	2.34 L		32 fl oz/a		POST	B					
4	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
4	AMS	WG		3 lb/a		POST	B					
5	Zidua PRO	4.09 L		4.5 fl oz/a		PRE	A	13	100	100	100	99
5	Alite 27	4 L		2 fl oz/a		PRE	A					
6	Zidua PRO	4.09 L		4.5 fl oz/a		PRE	A	8	100	100	100	97
6	Alite 27	4 L		2 fl oz/a		PRE	A					
6	Liberty	2.34 L		32 fl oz/a		LPOS	C					
6	Roundup PowerMax	4.5 SL		32 fl oz/a		LPOS	C					
6	AMS	WG		3 lb/a		LPOS	C					
7	Verdict	5.57 L		5 fl oz/a		PRE	A	8	76	99	100	92
7	Liberty	2.34 L		32 fl oz/a		POST	B					
7	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
7	AMS	WG		3 lb/a		POST	B					
8	Verdict	5.57 L		5 fl oz/a		PRE	A	7	89	100	100	96
8	Alite 27	4 L		2 fl oz/a		PRE	A					
8	Liberty	2.34 L		32 fl oz/a		LPOS	C					
8	Roundup PowerMax	4.5 SL		32 fl oz/a		LPOS	C					
8	AMS	WG		3 lb/a		LPOS	C					
9	Boundary	6.5 L		1.5 pt/a		PRE	A	8	98	100	100	82
9	Liberty	2.34 L		32 fl oz/a		POST	B					
9	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
9	AMS	WG		3 lb/a		POST	B					

Missing data estimates are included in columns: Average=31,32

Could not calculate LSD (% mean diff) for columns 4,16,19,22,28 because error mean square = 0.

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Pest Code		ANGR	CHEAL	AMAPO	AMBEL
Crop Type, Code	GLXMA				
Rating Date	Jun-24-2019	Jun-24-2019	Jun-24-2019	Jun-24-2019	Jun-24-2019
Rating Type	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	40 DA-A	40 DA-A	40 DA-A	40 DA-A	40 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					
10	Boundary	6.5	L	1.5	pt/a	PRE	A	9	100	100	100	96
10	Alite 27	4	L	2	fl oz/a	PRE	A					
10	Liberty	2.34	L	32	fl oz/a	LPOS	C					
10	Roundup PowerMax	4.5	SL	32	fl oz/a	LPOS	C					
10	AMS		WG	3	lb/a	LPOS	C					
	LSD P=.05			4.5					5.0	1.3	.	11.6
	Standard Deviation			3.1					3.4	0.9	0.0	8.0
	CV			53.4					4.01	0.96	0.0	9.93

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Location: Campus, C-14

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Study Director: Sprague, Powell, Stiles

Pest Code	ABUTH	GLXMA	ANGR	CHEAL	AMAPO	AMBEL
Crop Type, Code	Jun-24-2019	Jul-3-2019	Jul-3-2019	Jul-3-2019	Jul-3-2019	Jul-3-2019
Rating Date	control	injury	control	control	control	control
Rating Type	percent	percent	percent	percent	percent	percent
Rating Unit	40 DA-A	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 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	Appl Timing	Appl Code	ABUTH	GLXMA	ANGR	CHEAL	AMAPO	AMBEL
1	Zidua SC	4.17 L		4 fl oz/a		PRE	A	100	3	100	100	100	100
1	Liberty	2.34 L		32 fl oz/a		POST	B						
1	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B						
1	AMS	WG		3 lb/a		POST	B						
2	Zidua SC	4.17 L		4 fl oz/a		PRE	A	100	1	100	100	100	96
2	Alite 27	4 L		2 fl oz/a		PRE	A						
2	Liberty	2.34 L		32 fl oz/a		LPOS	C						
2	Roundup PowerMax	4.5 SL		32 fl oz/a		LPOS	C						
2	AMS	WG		3 lb/a		LPOS	C						
3	Untreated							0	0	0	0	0	0
4	Zidua PRO	4.09 L		4.5 fl oz/a		PRE	A	100	1	100	100	100	100
4	Liberty	2.34 L		32 fl oz/a		POST	B						
4	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B						
4	AMS	WG		3 lb/a		POST	B						
5	Zidua PRO	4.09 L		4.5 fl oz/a		PRE	A	100	4	98	100	100	92
5	Alite 27	4 L		2 fl oz/a		PRE	A						
6	Zidua PRO	4.09 L		4.5 fl oz/a		PRE	A	100	4	98	100	100	91
6	Alite 27	4 L		2 fl oz/a		PRE	A						
6	Liberty	2.34 L		32 fl oz/a		LPOS	C						
6	Roundup PowerMax	4.5 SL		32 fl oz/a		LPOS	C						
6	AMS	WG		3 lb/a		LPOS	C						
7	Verdict	5.57 L		5 fl oz/a		PRE	A	94	5	99	100	100	100
7	Liberty	2.34 L		32 fl oz/a		POST	B						
7	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B						
7	AMS	WG		3 lb/a		POST	B						
8	Verdict	5.57 L		5 fl oz/a		PRE	A	99	0	70	96	98	84
8	Alite 27	4 L		2 fl oz/a		PRE	A						
8	Liberty	2.34 L		32 fl oz/a		LPOS	C						
8	Roundup PowerMax	4.5 SL		32 fl oz/a		LPOS	C						
8	AMS	WG		3 lb/a		LPOS	C						
9	Boundary	6.5 L		1.5 pt/a		PRE	A	100	1	100	100	100	100
9	Liberty	2.34 L		32 fl oz/a		POST	B						
9	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B						
9	AMS	WG		3 lb/a		POST	B						

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Pest Code	ABUTH		ANGR	CHEAL	AMAPO	AMBEL
Crop Type, Code		GLXMA				
Rating Date	Jun-24-2019	Jul-3-2019	Jul-3-2019	Jul-3-2019	Jul-3-2019	Jul-3-2019
Rating Type	control	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	40 DA-A	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 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				
10	Boundary	6.5	L	1.5	pt/a	PRE	A	100	0	99	99
10	Alite 27	4	L	2	fl oz/a	PRE	A				
10	Liberty	2.34	L	32	fl oz/a	LPOS	C				
10	Roundup PowerMax	4.5	SL	32	fl oz/a	LPOS	C				
10	AMS		WG	3	lb/a	LPOS	C				
	LSD P=.05			4.4					2.6	5.3	2.5
	Standard Deviation			3.1					1.8	3.7	1.7
	CV			3.44					98.18	4.25	1.95

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Pest Code	ABUTH	GLXMA	ANGR	CHEAL	AMAPO
Crop Type, Code	Jul-3-2019	Jul-16-2019	Jul-16-2019	Jul-16-2019	Jul-16-2019
Rating Date	control	injury	control	control	control
Rating Type	percent	percent	percent	percent	percent
Rating Unit	7 DA-B	7 DA-C	7 DA-C	7 DA-C	7 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					
1	Zidua SC	4.17 L	L	4 fl oz/a	PRE	A		100	0	95	100	100
1	Liberty	2.34 L	L	32 fl oz/a	POST	B						
1	Roundup PowerMax	4.5 SL	SL	32 fl oz/a	POST	B						
1	AMS	WG	WG	3 lb/a	POST	B						
2	Zidua SC	4.17 L	L	4 fl oz/a	PRE	A		100	2	100	100	100
2	Alite 27	4 L	L	2 fl oz/a	PRE	A						
2	Liberty	2.34 L	L	32 fl oz/a	LPOS	C						
2	Roundup PowerMax	4.5 SL	SL	32 fl oz/a	LPOS	C						
2	AMS	WG	WG	3 lb/a	LPOS	C						
3	Untreated							0	0	0	0	0
4	Zidua PRO	4.09 L	L	4.5 fl oz/a	PRE	A		100	0	95	100	100
4	Liberty	2.34 L	L	32 fl oz/a	POST	B						
4	Roundup PowerMax	4.5 SL	SL	32 fl oz/a	POST	B						
4	AMS	WG	WG	3 lb/a	POST	B						
5	Zidua PRO	4.09 L	L	4.5 fl oz/a	PRE	A		100	0	86	99	100
5	Alite 27	4 L	L	2 fl oz/a	PRE	A						
6	Zidua PRO	4.09 L	L	4.5 fl oz/a	PRE	A		100	3	100	100	100
6	Alite 27	4 L	L	2 fl oz/a	PRE	A						
6	Liberty	2.34 L	L	32 fl oz/a	LPOS	C						
6	Roundup PowerMax	4.5 SL	SL	32 fl oz/a	LPOS	C						
6	AMS	WG	WG	3 lb/a	LPOS	C						
7	Verdict	5.57 L	L	5 fl oz/a	PRE	A		100	1	87	100	100
7	Liberty	2.34 L	L	32 fl oz/a	POST	B						
7	Roundup PowerMax	4.5 SL	SL	32 fl oz/a	POST	B						
7	AMS	WG	WG	3 lb/a	POST	B						
8	Verdict	5.57 L	L	5 fl oz/a	PRE	A		97	3	99	100	100
8	Alite 27	4 L	L	2 fl oz/a	PRE	A						
8	Liberty	2.34 L	L	32 fl oz/a	LPOS	C						
8	Roundup PowerMax	4.5 SL	SL	32 fl oz/a	LPOS	C						
8	AMS	WG	WG	3 lb/a	LPOS	C						
9	Boundary	6.5 L	L	1.5 pt/a	PRE	A		100	0	100	100	100
9	Liberty	2.34 L	L	32 fl oz/a	POST	B						
9	Roundup PowerMax	4.5 SL	SL	32 fl oz/a	POST	B						
9	AMS	WG	WG	3 lb/a	POST	B						

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Study Director: Sprague, Powell, Stiles

Pest Code	ABUTH		ANGR	CHEAL	AMAPO
Crop Type, Code		GLXMA			
Rating Date	Jul-3-2019	Jul-16-2019	Jul-16-2019	Jul-16-2019	Jul-16-2019
Rating Type	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-B	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					
10	Boundary	6.5	L	1.5	pt/a	PRE	A	95	3	100	100	100
10	Alite 27	4	L	2	fl oz/a	PRE	A					
10	Liberty	2.34	L	32	fl oz/a	LPOS	C					
10	Roundup PowerMax	4.5	SL	32	fl oz/a	LPOS	C					
10	AMS		WG	3	lb/a	LPOS	C					
	LSD P=.05			4.0					1.0	3.8	0.7	.
	Standard Deviation			2.7					0.7	2.6	0.5	0.0
	CV			3.06					58.93	3.07	0.53	0.0

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Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMBEL	ABUTH	GLXMA	ANGR	CHEAL
Crop Type, Code					
Rating Date	Jul-16-2019	Jul-16-2019	Jul-23-2019	Jul-23-2019	Jul-23-2019
Rating Type	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-C	7 DA-C	14 DA-C	14 DA-C	14 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	AMBEL	ABUTH	GLXMA	ANGR	CHEAL
1	Zidua SC	4.17 L		4 fl oz/a		PRE	A	98	97	0	97	100
1	Liberty	2.34 L		32 fl oz/a		POST	B					
1	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
1	AMS	WG		3 lb/a		POST	B					
2	Zidua SC	4.17 L		4 fl oz/a		PRE	A	100	100	0	100	100
2	Alite 27	4 L		2 fl oz/a		PRE	A					
2	Liberty	2.34 L		32 fl oz/a		LPOS	C					
2	Roundup PowerMax	4.5 SL		32 fl oz/a		LPOS	C					
2	AMS	WG		3 lb/a		LPOS	C					
3	Untreated							0	0	0	0	0
4	Zidua PRO	4.09 L		4.5 fl oz/a		PRE	A	100	100	0	96	100
4	Liberty	2.34 L		32 fl oz/a		POST	B					
4	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
4	AMS	WG		3 lb/a		POST	B					
5	Zidua PRO	4.09 L		4.5 fl oz/a		PRE	A	87	100	0	90	94
5	Alite 27	4 L		2 fl oz/a		PRE	A					
6	Zidua PRO	4.09 L		4.5 fl oz/a		PRE	A	100	100	0	100	100
6	Alite 27	4 L		2 fl oz/a		PRE	A					
6	Liberty	2.34 L		32 fl oz/a		LPOS	C					
6	Roundup PowerMax	4.5 SL		32 fl oz/a		LPOS	C					
6	AMS	WG		3 lb/a		LPOS	C					
7	Verdict	5.57 L		5 fl oz/a		PRE	A	100	94	0	93	100
7	Liberty	2.34 L		32 fl oz/a		POST	B					
7	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
7	AMS	WG		3 lb/a		POST	B					
8	Verdict	5.57 L		5 fl oz/a		PRE	A	100	100	0	100	100
8	Alite 27	4 L		2 fl oz/a		PRE	A					
8	Liberty	2.34 L		32 fl oz/a		LPOS	C					
8	Roundup PowerMax	4.5 SL		32 fl oz/a		LPOS	C					
8	AMS	WG		3 lb/a		LPOS	C					
9	Boundary	6.5 L		1.5 pt/a		PRE	A	100	100	0	100	100
9	Liberty	2.34 L		32 fl oz/a		POST	B					
9	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
9	AMS	WG		3 lb/a		POST	B					

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Pest Code	AMBEL	ABUTH	GLXMA	ANGR	CHEAL
Crop Type, Code					
Rating Date	Jul-16-2019	Jul-16-2019	Jul-23-2019	Jul-23-2019	Jul-23-2019
Rating Type	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-C	7 DA-C	14 DA-C	14 DA-C	14 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					
10	Boundary	6.5	L	1.5	pt/a	PRE	A	100	100	0	100	100
10	Alite 27	4	L	2	fl oz/a	PRE	A					
10	Liberty	2.34	L	32	fl oz/a	LPOS	C					
10	Roundup PowerMax	4.5	SL	32	fl oz/a	LPOS	C					
10	AMS		WG	3	lb/a	LPOS	C					
	LSD P=.05			4.6					3.6	.	3.4	3.4
	Standard Deviation			3.2					2.5	0.0	2.3	2.4
	CV			3.59					2.76	0.0	2.67	2.65

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Pest Code	AMAPO	AMBEL	ABUTH	GLXMA	ANGR
Crop Type, Code	Jul-23-2019	Jul-23-2019	Jul-23-2019	Aug-6-2019	Aug-6-2019
Rating Date	control	control	control	injury	control
Rating Type	percent	percent	percent	percent	percent
Rating Unit	14 DA-C	14 DA-C	14 DA-C	28 DA-C	28 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	GLXMA	ANGR
1	Zidua SC	4.17 L	L	4 fl oz/a	PRE	A		100	99	99	1	92
1	Liberty	2.34 L	L	32 fl oz/a	POST	B						
1	Roundup PowerMax	4.5 SL	SL	32 fl oz/a	POST	B						
1	AMS	WG	WG	3 lb/a	POST	B						
2	Zidua SC	4.17 L	L	4 fl oz/a	PRE	A		100	100	100	0	100
2	Alite 27	4 L	L	2 fl oz/a	PRE	A						
2	Liberty	2.34 L	L	32 fl oz/a	LPOS	C						
2	Roundup PowerMax	4.5 SL	SL	32 fl oz/a	LPOS	C						
2	AMS	WG	WG	3 lb/a	LPOS	C						
3	Untreated							0	0	0	0	0
4	Zidua PRO	4.09 L	L	4.5 fl oz/a	PRE	A		100	100	100	0	95
4	Liberty	2.34 L	L	32 fl oz/a	POST	B						
4	Roundup PowerMax	4.5 SL	SL	32 fl oz/a	POST	B						
4	AMS	WG	WG	3 lb/a	POST	B						
5	Zidua PRO	4.09 L	L	4.5 fl oz/a	PRE	A		100	94	100	0	85
5	Alite 27	4 L	L	2 fl oz/a	PRE	A						
6	Zidua PRO	4.09 L	L	4.5 fl oz/a	PRE	A		100	100	100	0	100
6	Alite 27	4 L	L	2 fl oz/a	PRE	A						
6	Liberty	2.34 L	L	32 fl oz/a	LPOS	C						
6	Roundup PowerMax	4.5 SL	SL	32 fl oz/a	LPOS	C						
6	AMS	WG	WG	3 lb/a	LPOS	C						
7	Verdict	5.57 L	L	5 fl oz/a	PRE	A		100	100	99	0	89
7	Liberty	2.34 L	L	32 fl oz/a	POST	B						
7	Roundup PowerMax	4.5 SL	SL	32 fl oz/a	POST	B						
7	AMS	WG	WG	3 lb/a	POST	B						
8	Verdict	5.57 L	L	5 fl oz/a	PRE	A		100	100	100	0	100
8	Alite 27	4 L	L	2 fl oz/a	PRE	A						
8	Liberty	2.34 L	L	32 fl oz/a	LPOS	C						
8	Roundup PowerMax	4.5 SL	SL	32 fl oz/a	LPOS	C						
8	AMS	WG	WG	3 lb/a	LPOS	C						
9	Boundary	6.5 L	L	1.5 pt/a	PRE	A		100	99	99	0	99
9	Liberty	2.34 L	L	32 fl oz/a	POST	B						
9	Roundup PowerMax	4.5 SL	SL	32 fl oz/a	POST	B						
9	AMS	WG	WG	3 lb/a	POST	B						

Missing data estimates are included in columns: Average=31,32

Could not calculate LSD (% mean diff) for columns 4,16,19,22,28 because error mean square = 0.

Weed control options in LibertyLink GT27 soybean with Alite

Trial ID: SOY04-19

Location: Campus, C-14

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMAPO	AMBEL	ABUTH	GLXMA	ANGR
Crop Type, Code					
Rating Date	Jul-23-2019	Jul-23-2019	Jul-23-2019	Aug-6-2019	Aug-6-2019
Rating Type	control	control	control	injury	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-C	14 DA-C	14 DA-C	28 DA-C	28 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					
10	Boundary	6.5	L	1.5	pt/a	PRE	A	100	100	100	0	100
10	Alite 27	4	L	2	fl oz/a	PRE	A					
10	Liberty	2.34	L	32	fl oz/a	LPOS	C					
10	Roundup PowerMax	4.5	SL	32	fl oz/a	LPOS	C					
10	AMS		WG	3	lb/a	LPOS	C					
LSD P=.05								.	2.5	1.6	0.7	3.8
Standard Deviation								0.0	1.7	1.1	0.5	2.6
CV								0.0	1.91	1.21	632.46	3.08

Missing data estimates are included in columns: Average=31,32

Could not calculate LSD (% mean diff) for columns 4,16,19,22,28 because error mean square = 0.

Weed control options in LibertyLink GT27 soybean with Alite

Trial ID: SOY04-19

Location: Campus, C-14

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	CHEAL	AMAPO	AMBEL	ABUTH	GLXMA	GLXMA						
Crop Type, Code	Aug-6-2019	Aug-6-2019	Aug-6-2019	Aug-6-2019	Oct-9-2019	Oct-9-2019						
Rating Date	control	control	control	control	moisture	yield						
Rating Type	percent	percent	percent	percent	percent	bu/acre						
Rating Unit	28 DA-C	28 DA-C	28 DA-C	28 DA-C	92 DA-C	at 13% M						
Trt-Eval Interval	0	0	0	0	1	1						
Number of Decimals												
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Timing	Appl Code						
1	Zidua SC	4.17 L		4 fl oz/a	PRE	A	99	100	99	99	14.4	43.3
1	Liberty	2.34 L		32 fl oz/a	POST	B						
1	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	B						
1	AMS	WG		3 lb/a	POST	B						
2	Zidua SC	4.17 L		4 fl oz/a	PRE	A	100	100	100	100	14.8	46.2
2	Alite 27	4 L		2 fl oz/a	PRE	A						
2	Liberty	2.34 L		32 fl oz/a	LPOS	C						
2	Roundup PowerMax	4.5 SL		32 fl oz/a	LPOS	C						
2	AMS	WG		3 lb/a	LPOS	C						
3	Untreated						0	0	0	0	12.1	13.9
4	Zidua PRO	4.09 L		4.5 fl oz/a	PRE	A	100	100	100	100	14.7	45.2
4	Liberty	2.34 L		32 fl oz/a	POST	B						
4	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	B						
4	AMS	WG		3 lb/a	POST	B						
5	Zidua PRO	4.09 L		4.5 fl oz/a	PRE	A	100	100	81	100	14.4	46.4
5	Alite 27	4 L		2 fl oz/a	PRE	A						
6	Zidua PRO	4.09 L		4.5 fl oz/a	PRE	A	100	100	100	100	14.3	44.1
6	Alite 27	4 L		2 fl oz/a	PRE	A						
6	Liberty	2.34 L		32 fl oz/a	LPOS	C						
6	Roundup PowerMax	4.5 SL		32 fl oz/a	LPOS	C						
6	AMS	WG		3 lb/a	LPOS	C						
7	Verdict	5.57 L		5 fl oz/a	PRE	A	100	100	100	100	14.2	51.0
7	Liberty	2.34 L		32 fl oz/a	POST	B						
7	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	B						
7	AMS	WG		3 lb/a	POST	B						
8	Verdict	5.57 L		5 fl oz/a	PRE	A	100	100	100	100	14.5	44.8
8	Alite 27	4 L		2 fl oz/a	PRE	A						
8	Liberty	2.34 L		32 fl oz/a	LPOS	C						
8	Roundup PowerMax	4.5 SL		32 fl oz/a	LPOS	C						
8	AMS	WG		3 lb/a	LPOS	C						
9	Boundary	6.5 L		1.5 pt/a	PRE	A	100	100	100	100	14.5	48.7
9	Liberty	2.34 L		32 fl oz/a	POST	B						
9	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	B						
9	AMS	WG		3 lb/a	POST	B						

Missing data estimates are included in columns: Average=31,32

Could not calculate LSD (% mean diff) for columns 4,16,19,22,28 because error mean square = 0.

Weed control options in LibertyLink GT27 soybean with Alite

Trial ID: SOY04-19

Location: Campus, C-14

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	CHEAL	AMAPO	AMBEL	ABUTH	GLXMA	GLXMA
Crop Type, Code						
Rating Date	Aug-6-2019	Aug-6-2019	Aug-6-2019	Aug-6-2019	Oct-9-2019	Oct-9-2019
Rating Type	control	control	control	control	moisture	yield
Rating Unit	percent	percent	percent	percent	percent	bu/acre
Trt-Eval Interval	28 DA-C	28 DA-C	28 DA-C	28 DA-C	92 DA-C	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				
10	Boundary	6.5	L	1.5	pt/a	PRE	A	100	100	100	100
10	Alite 27	4	L	2	fl oz/a	PRE	A				
10	Liberty	2.34	L	32	fl oz/a	LPOS	C				
10	Roundup PowerMax	4.5	SL	32	fl oz/a	LPOS	C				
10	AMS		WG	3	lb/a	LPOS	C				
	LSD P=.05							0.7	.	3.0	0.7
	Standard Deviation							0.5	0.0	2.1	0.5
	CV							0.53	0.0	2.38	0.53

Missing data estimates are included in columns: Average=31,32

Could not calculate LSD (% mean diff) for columns 4,16,19,22,28 because error mean square = 0.