

**Evaluating different weed control systems in HT3 soybean**

Trial ID: SOY12-18      Study Dir.: Stiles, Sprague  
 Conducted: Campus, T-11      Investigator: Christy Sprague

**Planting Date:** Jun-5-2018      **Row Spacing:** 30 IN  
**Variety:** HT3 Soybean      **No. of Reps:** 4  
**Population:** 123000 seeds/A      **% OM:** 2.2  
**Soil Type:** L loam      **pH:** 6.8  
**Plot Size:** 10 X 35 FT      **Study Design:** Randomized Complete Block (RCB)

**Tillage/Previous Crops:** Spring disked and soil finished twice  
**Fertilizer:**

**Crop and Weed Description**

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

**Application Description**

	A	B	C	D
<b>Application Timing:</b>	PRE	EPOS	POST	LPOS
<b>Date Treated:</b>	Jun-5-2018	Jun-25-2018	Jul-11-2018	Jul-25-2018
<b>Time Treated:</b>	7:15 PM	9:15 AM	12:00 PM	10:00 AM
<b>% Cloud Cover:</b>	20	60	15	0
<b>Air Temp., Unit:</b>	66 F	60 F	88 F	70 F
<b>% Relative Humidity:</b>	50	80	41	58
<b>Wind Speed/Unit/Dir:</b>	6 mph N	6 mph E	7 mph NE	0 mph
<b>Soil Temp, Unit:</b>	72.3 F	65 F	78 F	70 F
<b>Leaf Moist/Dew Presence (Y/N):</b>	5	5	5	5
<b>Soil Moist:</b>	5	5	5	5

**Crop Stage at Each Application**

	A	B	C	D
<b>Crop 1 Name:</b>	GLXMA	GLXMA	GLXMA	GLXMA
<b>Height:</b>		4-5 " (4.5)	8-10 " (9)	20-24 " (22)
<b>Stage:</b>		V1	V3	R1

**Weed Stage at Each Application**

	A	B	C	D
<b>Weed 1 Name:</b>	ANGR	ANGR	ANGR	ANGR
<b>Height:</b>		2-3 " (2.5)	4-6 " (5)	16-24 " (20)
<b>Stage:</b>		3L	4-6L	8-20L
<b>Weed 2 Name:</b>	CHEAL	CHEAL	CHEAL	CHEAL
<b>Height:</b>		1-2 " (1.5)	4-6 " (5)	6-20 " (13)
<b>Stage:</b>		4L	6-10L	
<b>Weed 3 Name:</b>	AMAPO	AMAPO	AMAPO	AMAPO
<b>Height:</b>		1-3 " (2)	6-8 " (7)	20-24 " (22)
<b>Stage:</b>		3-6L	6-10L	
<b>Weed 4 Name:</b>	AMBEL	AMBEL	AMBEL	AMBEL
<b>Height:</b>		3 "	4-8 " (6)	22-26 " (24)
<b>Stage:</b>		4-6L	6-12L	
<b>Weed 5 Name:</b>	ABUTH	ABUTH	ABUTH	ABUTH
<b>Height:</b>		1 "	4-16 " (10)	16-20 " (18)
<b>Stage:</b>		2L	4-8L	8L

**Weed Density**

	1	2	3	4	5
<b>Date:</b>	Jul-25-2018	Jul-25-2018	Jul-25-2018	Jul-25-2018	Jul-25-2018
<b>Weed Name:</b>	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
<b>Density:</b>	0.25 FT2	1 FT2	1 FT2	1 FT2	1 FT2

**Application Equipment**

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<b>Appl</b>	<b>Sprayer Type</b>	<b>Ground Speed</b>	<b>Nozzle Type</b>	<b>Nozzle Size</b>	<b>Nozzle Height</b>	<b>Nozzle Spacing</b>	<b>Boom Width</b>	<b>Spray Volume</b>	<b>Carrier</b>	<b>Operation Pressure</b>
<b>A</b>	CUB	3.8 mph	TTI	11003	22 "	20 "	100 "	19 GPA	WATER	25 PSI
<b>B</b>	CUB	3.8 mph	TTI	11003	28 "	20 "	100 "	19 GPA	WATER	25 PSI
<b>C</b>	CUB	3.8 mph	TTI	11003	28 "	20 "	100 "	19 GPA	WATER	25 PSI
<b>D</b>	CUB	3.8 mph	TTI	11003	40 "	20 "	100 "	19 GPA	WATER	25 PSI

**Comments:**

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Pest Code				CHEAL	AMAPO	AMBEL	POROL
Crop Code		GLXMA	GLXMA				
Rating Date		Jun-28-2018	Jul-9-2018	Jul-9-2018	Jul-9-2018	Jul-9-2018	Jul-9-2018
Rating Type		injury	injury	control	control	control	control
Rating Unit		percent	percent	percent	percent	percent	percent
Trt-Eval Interval		3 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Number of Decimals		0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code						
1	Valor	51	WG	2 oz/a		A	0	0	78	100	78	93
1	Roundup PowerMax	4.5	SL	32 fl oz/a		C						
1	Intact		L	0.5 % v/v		C						
2	Valor	51	WG	2 oz/a		A	0	0	68	93	76	91
2	XtendiMax	2.9	SL	22 fl oz/a		C						
2	Roundup PowerMax	4.5	SL	32 fl oz/a		C						
2	Intact		L	0.5 % v/v		C						
3	Valor	51	WG	2 oz/a		A	0	0	78	95	73	97
3	Liberty	2.34	L	32 fl oz/a		C						
3	AMS		WG	8.5 lb/100 gal		C						
4	Valor	51	WG	2 oz/a		A	0	0	74	94	76	95
4	Liberty	2.34	L	32 fl oz/a		C						
4	MON 119144	4	L	16 fl oz/a		C						
4	MON 301471		L	1.5 % v/v		C						
5	Valor	51	WG	2 oz/a		A	0	0	75	95	70	93
5	Liberty	2.34	L	32 fl oz/a		C						
5	MON 119144	4	L	16 fl oz/a		C						
5	Roundup PowerMax	4.5	SL	32 fl oz/a		C						
5	MON 301471		L	1.5 % v/v		C						
6	Untreated						0	0	0	0	0	0
7	Liberty	2.34	L	32 fl oz/a		B	7	0	100	100	100	98
7	AMS		WG	8.5 lb/100 gal		B						
7	Liberty	2.34	L	32 fl oz/a		D						
7	AMS		WG	8.5 lb/100 gal		D						
8	XtendiMax	2.9	SL	22 fl oz/a		B	3	0	100	100	100	100
8	Roundup PowerMax	4.5	SL	32 fl oz/a		B						
8	Intact		L	0.5 % v/v		B						
8	XtendiMax	2.9	SL	22 fl oz/a		D						
8	Roundup PowerMax	4.5	SL	32 fl oz/a		D						
8	Intact		L	0.5 % v/v		D						
9	Liberty	2.34	L	32 fl oz/a		B						
9	MON 119144	4	L	16 fl oz/a		B						
9	MON 301471		L	1.5 % v/v		B						
9	Liberty	2.34	L	32 fl oz/a		D						
9	MON 119144	4	L	16 fl oz/a		D						
9	MON 301471		L	1.5 % v/v		D						

Could not calculate LSD (% mean diff) for columns 2 because error mean square = 0.

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Pest Code	GLXMA	GLXMA	CHEAL	AMAPO	AMBEL	POROL
Crop Code	Jun-28-2018	Jul-9-2018	Jul-9-2018	Jul-9-2018	Jul-9-2018	Jul-9-2018
Rating Date	injury	injury	control	control	control	control
Rating Type	percent	percent	percent	percent	percent	percent
Rating Unit	3 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Trt-Eval Interval	0	0	0	0	0	0
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code						
10	Liberty	2.34	L	32 fl oz/a		B	6	0	100	100	100	96
10	AMS		WG	8.5 lb/100 gal		B						
10	XtendiMax	2.9	SL	22 fl oz/a		D						
10	Roundup PowerMax	4.5	SL	32 fl oz/a		D						
10	Intact		L	0.5 % v/v		D						
11	XtendiMax	2.9	SL	22 fl oz/a		B	3	0	100	100	100	100
11	Roundup PowerMax	4.5	SL	32 fl oz/a		B						
11	Intact		L	0.5 % v/v		B						
11	Liberty	2.34	L	32 fl oz/a		D						
11	AMS		WG	8.5 lb/100 gal		D						
12	Valor	51	WG	2 oz/a		A	0	0	80	100	75	94
12	Warrant Ultra	3.45	L	50 fl oz/a		C						
12	XtendiMax	2.9	SL	22 fl oz/a		C						
12	Roundup PowerMax	4.5	SL	32 fl oz/a		C						
12	Intact		L	0.5 % v/v		C						
13	Valor	51	WG	2 oz/a		A	0	0	80	100	71	93
13	Warrant Ultra	3.45	L	50 fl oz/a		C						
13	MON 119144	4	L	16 fl oz/a		C						
13	Liberty	2.34	L	32 fl oz/a		C						
13	MON 301471		L	1.5 % v/v		C						
14	XtendiMax	2.9	SL	22 fl oz/a		A	0	0	100	100	100	100
14	Valor	51	WG	2 oz/a		A						
14	Liberty	2.34	L	32 fl oz/a		C						
14	Warrant	3	L	48 fl oz/a		C						
14	AMS		WG	8.5 lb/100 gal		C						
15	XtendiMax	2.9	SL	22 fl oz/a		A	0	0	100	100	100	100
15	Valor	51	WG	2 oz/a		A						
15	Liberty	2.34	L	32 fl oz/a		C						
15	Warrant Ultra	3.45	L	50 fl oz/a		C						
15	Surfactant		L	0.25 % v/v		C						
15	AMS		WG	8.5 lb/100 gal		C						
16	XtendiMax	2.9	SL	22 fl oz/a		A	0	0	100	100	100	100
16	Valor	51	WG	2 oz/a		A						
16	Liberty	2.34	L	32 fl oz/a		C						
16	Warrant Ultra	3.45	L	50 fl oz/a		C						
16	SelectMax	0.97	L	12 fl oz/a		C						
16	Surfactant		L	0.25 % v/v		C						
16	AMS		WG	8.5 lb/100 gal		C						
17	MON 119144	4	L	16 fl oz/a		C	0	0	0	0	0	0
17	Roundup PowerMax	4.5	SL	32 fl oz/a		C						
17	MON 301471		L	1.5 % v/v		C						

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Crop Code		GLXMA	GLXMA				
Rating Date		Jun-28-2018	Jul-9-2018	Jul-9-2018	Jul-9-2018	Jul-9-2018	Jul-9-2018
Rating Type		injury	injury	control	control	control	control
Rating Unit		percent	percent	percent	percent	percent	percent
Trt-Eval Interval		3 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Number of Decimals		0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code						
18	Liberty	2.34	L	32	fl oz/a	C	0	0	0	0	0	
18	MON 119144	4	L	16	fl oz/a	C						
18	MON 301471		L	1.5	% v/v	C						
LSD P=.05							1.1	.	12.7	7.1	12.8	5.0
Standard Deviation							0.8	0.0	8.9	5.0	9.0	3.5
CV							74.22	0.0	12.35	6.19	12.59	4.45

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Pest Code	GLXMA	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code	GLXMA					
Rating Date	Jul-17-2018	Jul-17-2018	Jul-17-2018	Jul-17-2018	Jul-17-2018	Jul-17-2018
Rating Type	injury	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	6 DA-C	6 DA-C	6 DA-C	6 DA-C	6 DA-C	6 DA-C
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	GLXMA	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
1	Valor	51	WG	2 oz/a		A	0	100	100	100	100	93
1	Roundup PowerMax	4.5	SL	32 fl oz/a		C						
1	Intact		L	0.5 % v/v		C						
2	Valor	51	WG	2 oz/a		A	0	100	93	100	91	93
2	XtendiMax	2.9	SL	22 fl oz/a		C						
2	Roundup PowerMax	4.5	SL	32 fl oz/a		C						
2	Intact		L	0.5 % v/v		C						
3	Valor	51	WG	2 oz/a		A	1	93	98	100	97	100
3	Liberty	2.34	L	32 fl oz/a		C						
3	AMS		WG	8.5 lb/100 gal		C						
4	Valor	51	WG	2 oz/a		A	2	100	98	100	94	90
4	Liberty	2.34	L	32 fl oz/a		C						
4	MON 119144	4	L	16 fl oz/a		C						
4	MON 301471		L	1.5 % v/v		C						
5	Valor	51	WG	2 oz/a		A	1	100	95	99	98	100
5	Liberty	2.34	L	32 fl oz/a		C						
5	MON 119144	4	L	16 fl oz/a		C						
5	Roundup PowerMax	4.5	SL	32 fl oz/a		C						
5	MON 301471		L	1.5 % v/v		C						
6	Untreated						0	0	0	0	0	0
7	Liberty	2.34	L	32 fl oz/a		B	0	100	100	100	100	100
7	AMS		WG	8.5 lb/100 gal		B						
7	Liberty	2.34	L	32 fl oz/a		D						
7	AMS		WG	8.5 lb/100 gal		D						
8	XtendiMax	2.9	SL	22 fl oz/a		B	0	100	90	100	100	100
8	Roundup PowerMax	4.5	SL	32 fl oz/a		B						
8	Intact		L	0.5 % v/v		B						
8	XtendiMax	2.9	SL	22 fl oz/a		D						
8	Roundup PowerMax	4.5	SL	32 fl oz/a		D						
8	Intact		L	0.5 % v/v		D						
9	Liberty	2.34	L	32 fl oz/a		B						
9	MON 119144	4	L	16 fl oz/a		B						
9	MON 301471		L	1.5 % v/v		B						
9	Liberty	2.34	L	32 fl oz/a		D						
9	MON 119144	4	L	16 fl oz/a		D						
9	MON 301471		L	1.5 % v/v		D						

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Pest Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code	GLXMA				
Rating Date	Jul-17-2018	Jul-17-2018	Jul-17-2018	Jul-17-2018	Jul-17-2018
Rating Type	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	6 DA-C	6 DA-C	6 DA-C	6 DA-C	6 DA-C
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code					
10	Liberty	2.34	L	32 fl oz/a		B	0	100	95	100	100
10	AMS		WG	8.5 lb/100 gal		B					
10	XtendiMax	2.9	SL	22 fl oz/a		D					
10	Roundup PowerMax	4.5	SL	32 fl oz/a		D					
10	Intact		L	0.5 % v/v		D					
11	XtendiMax	2.9	SL	22 fl oz/a		B	0	100	100	100	100
11	Roundup PowerMax	4.5	SL	32 fl oz/a		B					
11	Intact		L	0.5 % v/v		B					
11	Liberty	2.34	L	32 fl oz/a		D					
11	AMS		WG	8.5 lb/100 gal		D					
12	Valor	51	WG	2 oz/a		A	10	100	95	100	93
12	Warrant Ultra	3.45	L	50 fl oz/a		C					
12	XtendiMax	2.9	SL	22 fl oz/a		C					
12	Roundup PowerMax	4.5	SL	32 fl oz/a		C					
12	Intact		L	0.5 % v/v		C					
13	Valor	51	WG	2 oz/a		A	9	93	98	99	94
13	Warrant Ultra	3.45	L	50 fl oz/a		C					
13	MON 119144	4	L	16 fl oz/a		C					
13	Liberty	2.34	L	32 fl oz/a		C					
13	MON 301471		L	1.5 % v/v		C					
14	XtendiMax	2.9	SL	22 fl oz/a		A	0	100	100	100	100
14	Valor	51	WG	2 oz/a		A					
14	Liberty	2.34	L	32 fl oz/a		C					
14	Warrant	3	L	48 fl oz/a		C					
14	AMS		WG	8.5 lb/100 gal		C					
15	XtendiMax	2.9	SL	22 fl oz/a		A	11	100	100	100	100
15	Valor	51	WG	2 oz/a		A					
15	Liberty	2.34	L	32 fl oz/a		C					
15	Warrant Ultra	3.45	L	50 fl oz/a		C					
15	Surfactant		L	0.25 % v/v		C					
15	AMS		WG	8.5 lb/100 gal		C					
16	XtendiMax	2.9	SL	22 fl oz/a		A	15	99	100	100	100
16	Valor	51	WG	2 oz/a		A					
16	Liberty	2.34	L	32 fl oz/a		C					
16	Warrant Ultra	3.45	L	50 fl oz/a		C					
16	SelectMax	0.97	L	12 fl oz/a		C					
16	Surfactant		L	0.25 % v/v		C					
16	AMS		WG	8.5 lb/100 gal		C					
17	MON 119144	4	L	16 fl oz/a		C	3	100	87	98	82
17	Roundup PowerMax	4.5	SL	32 fl oz/a		C					
17	MON 301471		L	1.5 % v/v		C					

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Crop Code	GLXMA					
Rating Date	Jul-17-2018	Jul-17-2018	Jul-17-2018	Jul-17-2018	Jul-17-2018	Jul-17-2018
Rating Type	injury	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	6 DA-C	6 DA-C	6 DA-C	6 DA-C	6 DA-C	6 DA-C
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code						
18	Liberty	2.34	L	32	fl oz/a	C	3	98	91	96	87	75
18	MON 119144	4	L	16	fl oz/a	C						
18	MON 301471		L	1.5	% v/v	C						
LSD	P=.05						2.7	5.7	9.2	2.5	6.8	10.7
Standard Deviation							1.9	4.0	6.5	1.8	4.8	7.5
CV							61.65	4.3	7.19	1.88	5.29	8.4



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Pest Code	GLXMA	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code	GLXMA					
Rating Date	Jul-26-2018	Jul-26-2018	Jul-26-2018	Jul-26-2018	Jul-26-2018	Jul-26-2018
Rating Type	injury	control	control	control	control	control
Rating Unit	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
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code						
1	Valor	51	WG	2 oz/a		A	0	100	100	100	100	99
1	Roundup PowerMax	4.5	SL	32 fl oz/a		C						
1	Intact		L	0.5 % v/v		C						
2	Valor	51	WG	2 oz/a		A	0	100	100	100	99	100
2	XtendiMax	2.9	SL	22 fl oz/a		C						
2	Roundup PowerMax	4.5	SL	32 fl oz/a		C						
2	Intact		L	0.5 % v/v		C						
3	Valor	51	WG	2 oz/a		A	0	100	96	100	100	100
3	Liberty	2.34	L	32 fl oz/a		C						
3	AMS		WG	8.5 lb/100 gal		C						
4	Valor	51	WG	2 oz/a		A	0	100	100	100	100	98
4	Liberty	2.34	L	32 fl oz/a		C						
4	MON 119144	4	L	16 fl oz/a		C						
4	MON 301471		L	1.5 % v/v		C						
5	Valor	51	WG	2 oz/a		A	0	100	100	100	100	100
5	Liberty	2.34	L	32 fl oz/a		C						
5	MON 119144	4	L	16 fl oz/a		C						
5	Roundup PowerMax	4.5	SL	32 fl oz/a		C						
5	MON 301471		L	1.5 % v/v		C						
6	Untreated						0	0	0	0	0	0
7	Liberty	2.34	L	32 fl oz/a		B	0	100	100	100	100	100
7	AMS		WG	8.5 lb/100 gal		B						
7	Liberty	2.34	L	32 fl oz/a		D						
7	AMS		WG	8.5 lb/100 gal		D						
8	XtendiMax	2.9	SL	22 fl oz/a		B	0	100	100	100	100	100
8	Roundup PowerMax	4.5	SL	32 fl oz/a		B						
8	Intact		L	0.5 % v/v		B						
8	XtendiMax	2.9	SL	22 fl oz/a		D						
8	Roundup PowerMax	4.5	SL	32 fl oz/a		D						
8	Intact		L	0.5 % v/v		D						
9	Liberty	2.34	L	32 fl oz/a		B						
9	MON 119144	4	L	16 fl oz/a		B						
9	MON 301471		L	1.5 % v/v		B						
9	Liberty	2.34	L	32 fl oz/a		D						
9	MON 119144	4	L	16 fl oz/a		D						
9	MON 301471		L	1.5 % v/v		D						

Could not calculate LSD (% mean diff) for columns 2 because error mean square = 0.

## Evaluating different weed control systems in HT3 soybean

Trial ID: SOY12-18

Location: Campus, T-11

Investigator: Christy Sprague  
Study Director: Stiles, Sprague

Pest Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code	GLXMA				
Rating Date	Jul-26-2018	Jul-26-2018	Jul-26-2018	Jul-26-2018	Jul-26-2018
Rating Type	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	15 DA-C	15 DA-C	15 DA-C	15 DA-C	15 DA-C
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code						
10	Liberty	2.34	L	32 fl oz/a		B	1	100	95	100	98	100
10	AMS		WG	8.5 lb/100 gal		B						
10	XtendiMax	2.9	SL	22 fl oz/a		D						
10	Roundup PowerMax	4.5	SL	32 fl oz/a		D						
10	Intact		L	0.5 % v/v		D						
11	XtendiMax	2.9	SL	22 fl oz/a		B	0	100	100	100	100	100
11	Roundup PowerMax	4.5	SL	32 fl oz/a		B						
11	Intact		L	0.5 % v/v		B						
11	Liberty	2.34	L	32 fl oz/a		D						
11	AMS		WG	8.5 lb/100 gal		D						
12	Valor	51	WG	2 oz/a		A	8	100	100	100	100	98
12	Warrant Ultra	3.45	L	50 fl oz/a		C						
12	XtendiMax	2.9	SL	22 fl oz/a		C						
12	Roundup PowerMax	4.5	SL	32 fl oz/a		C						
12	Intact		L	0.5 % v/v		C						
13	Valor	51	WG	2 oz/a		A	6	99	100	100	100	100
13	Warrant Ultra	3.45	L	50 fl oz/a		C						
13	MON 119144	4	L	16 fl oz/a		C						
13	Liberty	2.34	L	32 fl oz/a		C						
13	MON 301471		L	1.5 % v/v		C						
14	XtendiMax	2.9	SL	22 fl oz/a		A	0	100	100	100	100	100
14	Valor	51	WG	2 oz/a		A						
14	Liberty	2.34	L	32 fl oz/a		C						
14	Warrant	3	L	48 fl oz/a		C						
14	AMS		WG	8.5 lb/100 gal		C						
15	XtendiMax	2.9	SL	22 fl oz/a		A	9	100	100	100	100	100
15	Valor	51	WG	2 oz/a		A						
15	Liberty	2.34	L	32 fl oz/a		C						
15	Warrant Ultra	3.45	L	50 fl oz/a		C						
15	Surfactant		L	0.25 % v/v		C						
15	AMS		WG	8.5 lb/100 gal		C						
16	XtendiMax	2.9	SL	22 fl oz/a		A	10	100	100	100	100	100
16	Valor	51	WG	2 oz/a		A						
16	Liberty	2.34	L	32 fl oz/a		C						
16	Warrant Ultra	3.45	L	50 fl oz/a		C						
16	SelectMax	0.97	L	12 fl oz/a		C						
16	Surfactant		L	0.25 % v/v		C						
16	AMS		WG	8.5 lb/100 gal		C						
17	MON 119144	4	L	16 fl oz/a		C	0	100	100	100	93	86
17	Roundup PowerMax	4.5	SL	32 fl oz/a		C						
17	MON 301471		L	1.5 % v/v		C						

Could not calculate LSD (% mean diff) for columns 2 because error mean square = 0.

Evaluating different weed control systems in HT3 soybean

Trial ID: SOY12-18

Location: Campus, T-11

Investigator: Christy Sprague

Study Director: Stiles, Sprague

Pest Code		ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code	GLXMA					
Rating Date	Jul-26-2018	Jul-26-2018	Jul-26-2018	Jul-26-2018	Jul-26-2018	Jul-26-2018
Rating Type	injury	control	control	control	control	control
Rating Unit	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
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code						
18	Liberty	2.34	L	32	fl oz/a	C	0	98	93	100	98	88
18	MON 119144	4	L	16	fl oz/a	C						
18	MON 301471		L	1.5	% v/v	C						
LSD	P=.05						1.0	1.8	4.7	0.4	4.2	6.9
Standard Deviation							0.7	1.3	3.3	0.3	3.0	4.8
CV							36.28	1.34	3.54	0.29	3.17	5.23

## Evaluating different weed control systems in HT3 soybean

Trial ID: SOY12-18

Location: Campus, T-11

Investigator: Christy Sprague

Study Director: Stiles, Sprague

Pest Code		ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code	GLXMA					
Rating Date	Aug-9-2018	Aug-9-2018	Aug-9-2018	Aug-9-2018	Aug-9-2018	Aug-9-2018
Rating Type	injury	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	29 DA-C	29 DA-C	29 DA-C	29 DA-C	29 DA-C	29 DA-C
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code					
1	Valor	51	WG	2 oz/a		A	0	100	100	100	100
1	Roundup PowerMax	4.5	SL	32 fl oz/a		C					
1	Intact		L	0.5 % v/v		C					
2	Valor	51	WG	2 oz/a		A	0	100	100	100	100
2	XtendiMax	2.9	SL	22 fl oz/a		C					
2	Roundup PowerMax	4.5	SL	32 fl oz/a		C					
2	Intact		L	0.5 % v/v		C					
3	Valor	51	WG	2 oz/a		A	0	100	98	100	100
3	Liberty	2.34	L	32 fl oz/a		C					
3	AMS		WG	8.5 lb/100 gal		C					
4	Valor	51	WG	2 oz/a		A	0	100	100	100	100
4	Liberty	2.34	L	32 fl oz/a		C					
4	MON 119144	4	L	16 fl oz/a		C					
4	MON 301471		L	1.5 % v/v		C					
5	Valor	51	WG	2 oz/a		A	0	100	100	100	100
5	Liberty	2.34	L	32 fl oz/a		C					
5	MON 119144	4	L	16 fl oz/a		C					
5	Roundup PowerMax	4.5	SL	32 fl oz/a		C					
5	MON 301471		L	1.5 % v/v		C					
6	Untreated						0	0	0	0	0
7	Liberty	2.34	L	32 fl oz/a		B	0	100	100	100	100
7	AMS		WG	8.5 lb/100 gal		B					
7	Liberty	2.34	L	32 fl oz/a		D					
7	AMS		WG	8.5 lb/100 gal		D					
8	XtendiMax	2.9	SL	22 fl oz/a		B	0	100	100	100	100
8	Roundup PowerMax	4.5	SL	32 fl oz/a		B					
8	Intact		L	0.5 % v/v		B					
8	XtendiMax	2.9	SL	22 fl oz/a		D					
8	Roundup PowerMax	4.5	SL	32 fl oz/a		D					
8	Intact		L	0.5 % v/v		D					
9	Liberty	2.34	L	32 fl oz/a		B					
9	MON 119144	4	L	16 fl oz/a		B					
9	MON 301471		L	1.5 % v/v		B					
9	Liberty	2.34	L	32 fl oz/a		D					
9	MON 119144	4	L	16 fl oz/a		D					
9	MON 301471		L	1.5 % v/v		D					

## Evaluating different weed control systems in HT3 soybean

Trial ID: SOY12-18

Location: Campus, T-11

Investigator: Christy Sprague

Study Director: Stiles, Sprague

Pest Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code	GLXMA				
Rating Date	Aug-9-2018	Aug-9-2018	Aug-9-2018	Aug-9-2018	Aug-9-2018
Rating Type	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	29 DA-C	29 DA-C	29 DA-C	29 DA-C	29 DA-C
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code					
10	Liberty	2.34	L	32 fl oz/a		B	0	100	100	100	100
10	AMS		WG	8.5 lb/100 gal		B					
10	XtendiMax	2.9	SL	22 fl oz/a		D					
10	Roundup PowerMax	4.5	SL	32 fl oz/a		D					
10	Intact		L	0.5 % v/v		D					
11	XtendiMax	2.9	SL	22 fl oz/a		B	0	100	100	100	100
11	Roundup PowerMax	4.5	SL	32 fl oz/a		B					
11	Intact		L	0.5 % v/v		B					
11	Liberty	2.34	L	32 fl oz/a		D					
11	AMS		WG	8.5 lb/100 gal		D					
12	Valor	51	WG	2 oz/a		A	2	100	100	100	100
12	Warrant Ultra	3.45	L	50 fl oz/a		C					
12	XtendiMax	2.9	SL	22 fl oz/a		C					
12	Roundup PowerMax	4.5	SL	32 fl oz/a		C					
12	Intact		L	0.5 % v/v		C					
13	Valor	51	WG	2 oz/a		A	1	100	100	100	100
13	Warrant Ultra	3.45	L	50 fl oz/a		C					
13	MON 119144	4	L	16 fl oz/a		C					
13	Liberty	2.34	L	32 fl oz/a		C					
13	MON 301471		L	1.5 % v/v		C					
14	XtendiMax	2.9	SL	22 fl oz/a		A	0	100	100	100	100
14	Valor	51	WG	2 oz/a		A					
14	Liberty	2.34	L	32 fl oz/a		C					
14	Warrant	3	L	48 fl oz/a		C					
14	AMS		WG	8.5 lb/100 gal		C					
15	XtendiMax	2.9	SL	22 fl oz/a		A	3	100	100	100	100
15	Valor	51	WG	2 oz/a		A					
15	Liberty	2.34	L	32 fl oz/a		C					
15	Warrant Ultra	3.45	L	50 fl oz/a		C					
15	Surfactant		L	0.25 % v/v		C					
15	AMS		WG	8.5 lb/100 gal		C					
16	XtendiMax	2.9	SL	22 fl oz/a		A	2	100	100	100	100
16	Valor	51	WG	2 oz/a		A					
16	Liberty	2.34	L	32 fl oz/a		C					
16	Warrant Ultra	3.45	L	50 fl oz/a		C					
16	SelectMax	0.97	L	12 fl oz/a		C					
16	Surfactant		L	0.25 % v/v		C					
16	AMS		WG	8.5 lb/100 gal		C					
17	MON 119144	4	L	16 fl oz/a		C	0	100	100	100	95
17	Roundup PowerMax	4.5	SL	32 fl oz/a		C					
17	MON 301471		L	1.5 % v/v		C					

**Evaluating different weed control systems in HT3 soybean**

**Trial ID: SOY12-18**

**Location: Campus, T-11**

**Investigator: Christy Sprague**

**Study Director: Stiles, Sprague**

Pest Code		ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code	GLXMA					
Rating Date	Aug-9-2018	Aug-9-2018	Aug-9-2018	Aug-9-2018	Aug-9-2018	Aug-9-2018
Rating Type	injury	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	29 DA-C	29 DA-C	29 DA-C	29 DA-C	29 DA-C	29 DA-C
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code						
18	Liberty	2.34	L	32	fl oz/a	C	0	99	98	100	100	89
18	MON 119144	4	L	16	fl oz/a	C						
18	MON 301471		L	1.5	% v/v	C						
LSD	P=.05						0.6	0.8	1.5	0.2	0.2	5.8
Standard Deviation							0.5	0.6	1.0	0.1	0.1	4.1
CV							103.31	0.62	1.11	0.13	0.13	4.37

## Evaluating different weed control systems in HT3 soybean

Trial ID: SOY12-18

Location: Campus, T-11

Investigator: Christy Sprague

Study Director: Stiles, Sprague

Pest Code			
Crop Code		GLXMA	GLXMA
Rating Date		Oct-24-2018	Oct-24-2018
Rating Type		moisture	yield
Rating Unit		percent	bu/acre
Trt-Eval Interval		105 DA-C	at 13% M
Number of Decimals		1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code		
1	Valor	51	WG	2 oz/a		A	12.1	74.2
1	Roundup PowerMax	4.5	SL	32 fl oz/a		C		
1	Intact		L	0.5 % v/v		C		
2	Valor	51	WG	2 oz/a		A	12.1	69.5
2	XtendiMax	2.9	SL	22 fl oz/a		C		
2	Roundup PowerMax	4.5	SL	32 fl oz/a		C		
2	Intact		L	0.5 % v/v		C		
3	Valor	51	WG	2 oz/a		A	12.0	70.3
3	Liberty	2.34	L	32 fl oz/a		C		
3	AMS		WG	8.5 lb/100 gal		C		
4	Valor	51	WG	2 oz/a		A	12.0	73.8
4	Liberty	2.34	L	32 fl oz/a		C		
4	MON 119144		4 L	16 fl oz/a		C		
4	MON 301471		L	1.5 % v/v		C		
5	Valor	51	WG	2 oz/a		A	11.9	65.7
5	Liberty	2.34	L	32 fl oz/a		C		
5	MON 119144		4 L	16 fl oz/a		C		
5	Roundup PowerMax	4.5	SL	32 fl oz/a		C		
5	MON 301471		L	1.5 % v/v		C		
6	Untreated						12.8	58.6
7	Liberty	2.34	L	32 fl oz/a		B	12.1	67.9
7	AMS		WG	8.5 lb/100 gal		B		
7	Liberty	2.34	L	32 fl oz/a		D		
7	AMS		WG	8.5 lb/100 gal		D		
8	XtendiMax	2.9	SL	22 fl oz/a		B	12.0	66.0
8	Roundup PowerMax	4.5	SL	32 fl oz/a		B		
8	Intact		L	0.5 % v/v		B		
8	XtendiMax	2.9	SL	22 fl oz/a		D		
8	Roundup PowerMax	4.5	SL	32 fl oz/a		D		
8	Intact		L	0.5 % v/v		D		
9	Liberty	2.34	L	32 fl oz/a		B		
9	MON 119144		4 L	16 fl oz/a		B		
9	MON 301471		L	1.5 % v/v		B		
9	Liberty	2.34	L	32 fl oz/a		D		
9	MON 119144		4 L	16 fl oz/a		D		
9	MON 301471		L	1.5 % v/v		D		

## Evaluating different weed control systems in HT3 soybean

Trial ID: SOY12-18

Location: Campus, T-11

Investigator: Christy Sprague

Study Director: Stiles, Sprague

Pest Code			
Crop Code		GLXMA	GLXMA
Rating Date		Oct-24-2018	Oct-24-2018
Rating Type		moisture	yield
Rating Unit		percent	bu/acre
Trt-Eval Interval		105 DA-C	at 13% M
Number of Decimals		1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code		
10	Liberty	2.34	L	32 fl oz/a	B		12.0	72.2
10	AMS		WG	8.5 lb/100 gal	B			
10	XtendiMax	2.9	SL	22 fl oz/a	D			
10	Roundup PowerMax	4.5	SL	32 fl oz/a	D			
10	Intact		L	0.5 % v/v	D			
11	XtendiMax	2.9	SL	22 fl oz/a	B		12.1	69.3
11	Roundup PowerMax	4.5	SL	32 fl oz/a	B			
11	Intact		L	0.5 % v/v	B			
11	Liberty	2.34	L	32 fl oz/a	D			
11	AMS		WG	8.5 lb/100 gal	D			
12	Valor	51	WG	2 oz/a	A		12.2	69.8
12	Warrant Ultra	3.45	L	50 fl oz/a	C			
12	XtendiMax	2.9	SL	22 fl oz/a	C			
12	Roundup PowerMax	4.5	SL	32 fl oz/a	C			
12	Intact		L	0.5 % v/v	C			
13	Valor	51	WG	2 oz/a	A		12.0	68.0
13	Warrant Ultra	3.45	L	50 fl oz/a	C			
13	MON 119144	4	L	16 fl oz/a	C			
13	Liberty	2.34	L	32 fl oz/a	C			
13	MON 301471		L	1.5 % v/v	C			
14	XtendiMax	2.9	SL	22 fl oz/a	A		12.0	71.0
14	Valor	51	WG	2 oz/a	A			
14	Liberty	2.34	L	32 fl oz/a	C			
14	Warrant	3	L	48 fl oz/a	C			
14	AMS		WG	8.5 lb/100 gal	C			
15	XtendiMax	2.9	SL	22 fl oz/a	A		11.9	70.5
15	Valor	51	WG	2 oz/a	A			
15	Liberty	2.34	L	32 fl oz/a	C			
15	Warrant Ultra	3.45	L	50 fl oz/a	C			
15	Surfactant		L	0.25 % v/v	C			
15	AMS		WG	8.5 lb/100 gal	C			
16	XtendiMax	2.9	SL	22 fl oz/a	A		12.0	68.8
16	Valor	51	WG	2 oz/a	A			
16	Liberty	2.34	L	32 fl oz/a	C			
16	Warrant Ultra	3.45	L	50 fl oz/a	C			
16	SelectMax	0.97	L	12 fl oz/a	C			
16	Surfactant		L	0.25 % v/v	C			
16	AMS		WG	8.5 lb/100 gal	C			
17	MON 119144	4	L	16 fl oz/a	C		11.9	71.9
17	Roundup PowerMax	4.5	SL	32 fl oz/a	C			
17	MON 301471		L	1.5 % v/v	C			



**Evaluating different weed control systems in HT3 soybean**

Trial ID: SOY12-18

Location: Campus, T-11

Investigator: Christy Sprague

Study Director: Stiles, Sprague

Pest Code		
Crop Code	GLXMA	GLXMA
Rating Date	Oct-24-2018	Oct-24-2018
Rating Type	moisture	yield
Rating Unit	percent	bu/acre
Trt-Eval Interval	105 DA-C	at 13% M
Number of Decimals	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code		
18	Liberty	2.34	L	32	fl oz/a	C	11.8	69.5
18	MON 119144	4	L	16	fl oz/a	C		
18	MON 301471		L	1.5	% v/v	C		
	LSD P=.05						0.37	7.03
	Standard Deviation						0.26	4.95
	CV						2.19	7.15