

Weed management systems in non-GMO soybean

Trial ID: SOY09-19 Study Dir.: Sprague, Powell, Stiles
 Conducted: Campus, C-16 Investigator: Christy Sprague

Planting Date: May-15-2019 **Row Spacing:** 30 IN
Variety: ZFS 1326 **No. of Reps:** 4
Population: 156000 seeds/A **% OM:** 2.5
Soil Type: L loam **pH:** 6.6
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	lambsquarters, 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	EPOS	POST
Date Treated:	May-16-2019	Jun-12-2019	Jul-1-2019
Time Treated:	7:40 AM	9:00 AM	2:50 PM
% Cloud Cover:	80	75	50
Air Temp., Unit:	48 F	65 F	88 F
% Relative Humidity:	93	59	40
Wind Speed/Unit/Dir:	0.5 mph SSW	2.5 mph SW	4 mph SW
Soil Temp, Unit:	53 F	62 F	62 F
Leaf Moist/Dew Presence (Y/N):	4	2	5
Soil Moist:	3	5	5

Crop Stage at Each Application

	A	B	C
Crop 1 Name:	GLXMA	GLXMA	GLXMA
Height:		3 "	12 "
Stage:		V2	V4

Weed Stage at Each Application

	A	B	C
Weed 1 Name:	ANGR	ANGR	ANGR
Height:		1-2 " (1.5)	2-6 " (4)
Stage:		3L	2-4L
Weed 2 Name:	CHEAL	CHEAL	CHEAL
Height:		0.5-1.5 " (1)	2-4 " (3)
Stage:		8L	8-12L
Weed 3 Name:	AMAPO	AMAPO	AMAPO
Height:		0.5-1.5 " (1)	
Stage:		8L	
Weed 4 Name:	AMBEL	AMBEL	AMBEL
Height:		1-2 " (1.5)	1-4 " (3)
Stage:		6L	4-12L
Weed 5 Name:	SINAR	SINAR	SINAR
Height:		2-6 " (4)	2 "
Stage:		flower	flower
Weed 6 Name:	ABUTH	ABUTH	ABUTH
Height:			2 "
Stage:			3L

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	SINAR	ABUTH
Density:	99 ft2	6 ft2	1 ft2	24 ft2	5 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	20 "	20 "	100 "	19 GPA	WATER	30 psi
B	BACKPK	3.8 mph	AIXR	11003	22 "	20 "	100 "	19 GPA	WATER	30 psi
C	CUB	3.8 mph	AIXR	11003	30 "	20 "	100 "	19 GPA	WATER	30 psi

Comments:

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Location: Campus, C-16

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code				ANGR	CHEAL	AMAPO	AMBEL
Crop Type, Code		GLXMA	GLXMA				
Rating Date		Jun-12-2019	Jul-1-2019	Jul-1-2019	Jul-1-2019	Jul-1-2019	Jul-1-2019
Rating Type		injury	injury	control	control	control	control
Rating Unit		percent	percent	percent	percent	percent	percent
Trt-Eval Interval		0 DA-B	46 DA-A	46 DA-A	46 DA-A	46 DA-A	46 DA-A
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	Boundary	6.5 L		2.4 pt/a		PRE	A	19	2	100	99	100	89
1	Flexstar	1.88 L		12 fl oz/a		POST	C						
1	COC	L		1 % v/v		POST	C						
1	AMS	WG		2.5 lb/a		POST	C						
2	BroadAxe XC	7 L		32 fl oz/a		PRE	A	23	2	100	100	100	74
2	Flexstar	1.88 L		1 pt/a		POST	C						
2	COC	L		1 % v/v		POST	C						
2	AMS	WG		2.5 lb/a		POST	C						
3	Sonic	70 WG		6 oz/a		PRE	A	26	6	100	100	100	91
3	Boundary	6.5 L		1.5 pt/a		PRE	A						
3	Cobra	2 L		8 fl oz/a		POST	C						
3	COC	L		0.5 % v/v		POST	C						
4	Surveil	48 WG		3.5 oz/a		PRE	A	35	10	95	100	100	97
4	Metribuzin	75 WG		6 oz/a		PRE	A						
4	Assure II	0.88 L		7 fl oz/a		POST	C						
4	COC	L		1 % v/v		POST	C						
5	Untreated							0	0	0	0	0	0
6	Dimetric Charged	3.67 L		16 fl oz/a		PRE	A	36	4	92	100	100	97
6	SelectMax	0.97 L		9 fl oz/a		POST	C						
6	Surfactant	L		0.25 % v/v		POST	C						
6	AMS	WG		2.5 lb/a		POST	C						
7	Valor	51 WG		2.5 oz/a		PRE	A	43	5	92	100	100	89
7	Prowl H2O	3.7 L		2 pt/a		PRE	A						
7	Flexstar	1.88 L		1 pt/a		POST	C						
7	SelectMax	0.97 L		12 fl oz/a		POST	C						
7	COC	L		1 % v/v		POST	C						
7	AMS	WG		2.5 lb/a		POST	C						
8	Fierce	76 WG		3 oz/a		PRE	A	38	8	99	100	100	97
9	Fierce MTZ	2.64 L		16 fl oz/a		PRE	A	33	3	98	100	100	95
10	Valor XLT	40.3 WG		4 oz/a		PRE	A	30	13	96	100	100	90
10	Cobra	2 L		8 fl oz/a		POST	C						
10	COC	L		0.5 % v/v		POST	C						
11	Valor XLT	40.3 WG		2 oz/a		PRE	A	39	17	100	100	100	96
11	Valor	51 WG		1.5 oz/a		PRE	A						

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Pest Code						ANGR	CHEAL	AMAPO	AMBEL				
Crop Type, Code						GLXMA	GLXMA						
Rating Date						Jun-12-2019	Jul-1-2019	Jul-1-2019	Jul-1-2019				
Rating Type						injury	injury	control	control				
Rating Unit						percent	percent	percent	percent				
Trt-Eval Interval						0 DA-B	46 DA-A	46 DA-A	46 DA-A				
Number of Decimals						0	0	0	0				
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code						
12	Authority MTZ	45	WG	14	oz/a	PRE	A	5	0	91	100	100	79
12	Flexstar	1.88	L	1	pt/a	POST	C						
12	SelectMax	0.97	L	12	fl oz/a	POST	C						
12	COC		L	1	% v/v	POST	C						
12	AMS		WG	2.5	lb/a	POST	C						
13	Authority Supreme	4.16	L	9.8	fl oz/a	PRE	A	9	8	100	100	100	91
13	Marvel	3	L	7.25	fl oz/a	POST	C						
13	COC		L	1	% v/v	POST	C						
13	AMS		WG	2.5	lb/a	POST	C						
14	Zidua PRO	4.09	L	6	fl oz/a	PRE	A	13	3	100	100	100	95
15	Trivence	61.3	WG	8	oz/a	PRE	A	34	5	99	100	100	98
16	Prefix	5.29	L	2	pt/a	PRE	A	17	3	100	100	100	100
16	Metribuzin	75	WG	6	oz/a	PRE	A						
17	Warrant Ultra	3.45	L	50	fl oz/a	PRE	A	7	0	100	100	100	98
17	Metribuzin	75	WG	6	oz/a	PRE	A						
18	Matador	4.7	L	3.9	pt/a	PRE	A	1	0	88	86	100	0
18	Harmony SG	50	WG	0.125	oz/a	POST	C						
18	Flexstar	1.88	L	1	pt/a	POST	C						
18	Select Max	0.97	L	12	fl oz/a	POST	C						
18	Crop oil concentrate		L	0.5	% v/v	POST	C						
18	AMS		WG	2.5	lb/a	POST	C						
19	Moccasin MTZ	4.5	L	2.67	pt/a	PRE	A	14	2	99	99	100	89
19	Ultra Blazer	2	L	1.5	pt/a	POST	C						
19	Select Max	0.97	L	12	fl oz/a	POST	C						
19	Surfactant		L	0.25	% v/v	POST	C						
20	Tripzin ZC	4	L	2	pt/a	PRE	A	15	0	87	100	100	82
20	Ultra Blazer	2	L	1.5	pt/a	POST	C						
20	Select Max	0.97	L	12	fl oz/a	POST	C						
20	Surfactant		L	0.25	% v/v	POST	C						
21	Command 3ME	3	L	21	fl oz/a	PRE	A	13	1	100	100	100	95
21	Moccasin MTZ	4.5	L	2.5	pt/a	PRE	A						
21	Ultra Blazer	2	L	1.5	pt/a	POST	C						
21	Select Max	0.97	L	12	fl oz/a	POST	C						
21	Surfactant		L	0.25	% v/v	POST	C						
22	None												
23	Synchrony XP	28.4	WG	0.5	oz/a	EPOS	B	0	5	85	99	100	90
23	Cobra	2	L	8	fl oz/a	EPOS	B						
23	Assure II	0.88	L	9	fl oz/a	EPOS	B						
23	Crop oil concentrate		L	0.5	% v/v	EPOS	B						
23	AMS		WG	2.5	lb/a	EPOS	B						

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Pest Code				ANGR	CHEAL	AMAPO	AMBEL
Crop Type, Code	GLXMA	GLXMA					
Rating Date	Jun-12-2019	Jul-1-2019	Jul-1-2019	Jul-1-2019	Jul-1-2019	Jul-1-2019	Jul-1-2019
Rating Type	injury	injury	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	0 DA-B	46 DA-A	46 DA-A	46 DA-A	46 DA-A	46 DA-A	46 DA-A
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code						
24	Basagran	5 L		1.6 pt/a		EPOS B		0	7	92	77	100	82
24	Ultra Blazer	2 L		1 pt/a		EPOS B							
24	Select Max	0.97 L		12 fl oz/a		EPOS B							
24	Crop oil concentrate	L		1 % v/v		EPOS B							
24	AMS	WG		2.5 lb/a		EPOS B							
25	None												
LSD P=.05								6.7	6.3	4.7	3.7	.	6.2
Standard Deviation								4.8	4.4	3.3	2.6	0.0	4.4
CV								24.61	100.11	3.65	2.8	0.0	5.24

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Pest Code	SINAR	ABUTH	GLXMA	GLXMA	ANGR	CHEAL
Crop Type, Code	Jul-1-2019	Jul-1-2019	Jul-8-2019	Jul-15-2019	Jul-15-2019	Jul-15-2019
Rating Date	control	control	injury	injury	control	control
Rating Type	percent	percent	percent	percent	percent	percent
Rating Unit	46 DA-A	46 DA-A	7 DA-C	14 DA-C	14 DA-C	14 DA-C
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	SINAR	ABUTH	GLXMA	GLXMA	ANGR	CHEAL
1	Boundary	6.5 L		2.4 pt/a		PRE	A	100	98	10	2	99	95
1	Flexstar	1.88 L		12 fl oz/a		POST	C						
1	COC	L		1 % v/v		POST	C						
1	AMS	WG		2.5 lb/a		POST	C						
2	BroadAxe XC	7 L		32 fl oz/a		PRE	A	100	100	12	7	100	100
2	Flexstar	1.88 L		1 pt/a		POST	C						
2	COC	L		1 % v/v		POST	C						
2	AMS	WG		2.5 lb/a		POST	C						
3	Sonic	70 WG		6 oz/a		PRE	A	100	100	23	9	100	100
3	Boundary	6.5 L		1.5 pt/a		PRE	A						
3	Cobra	2 L		8 fl oz/a		POST	C						
3	COC	L		0.5 % v/v		POST	C						
4	Surveil	48 WG		3.5 oz/a		PRE	A	100	100	5	5	97	100
4	Metribuzin	75 WG		6 oz/a		PRE	A						
4	Assure II	0.88 L		7 fl oz/a		POST	C						
4	COC	L		1 % v/v		POST	C						
5	Untreated							0	0	0	0	0	0
6	Dimetric Charged	3.67 L		16 fl oz/a		PRE	A	100	100	3	3	100	100
6	SelectMax	0.97 L		9 fl oz/a		POST	C						
6	Surfactant	L		0.25 % v/v		POST	C						
6	AMS	WG		2.5 lb/a		POST	C						
7	Valor	51 WG		2.5 oz/a		PRE	A	100	100	11	7	94	100
7	Prowl H2O	3.7 L		2 pt/a		PRE	A						
7	Flexstar	1.88 L		1 pt/a		POST	C						
7	SelectMax	0.97 L		12 fl oz/a		POST	C						
7	COC	L		1 % v/v		POST	C						
7	AMS	WG		2.5 lb/a		POST	C						
8	Fierce	76 WG		3 oz/a		PRE	A	100	100	7	3	92	100
9	Fierce MTZ	2.64 L		16 fl oz/a		PRE	A	100	100	4	2	89	100
10	Valor XLT	40.3 WG		4 oz/a		PRE	A	100	100	26	9	98	100
10	Cobra	2 L		8 fl oz/a		POST	C						
10	COC	L		0.5 % v/v		POST	C						
11	Valor XLT	40.3 WG		2 oz/a		PRE	A	100	100	11	8	90	100
11	Valor	51 WG		1.5 oz/a		PRE	A						

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Pest Code	SINAR	ABUTH	GLXMA	GLXMA	ANGR	CHEAL							
Crop Type, Code	Jul-1-2019	Jul-1-2019	Jul-8-2019	Jul-15-2019	Jul-15-2019	Jul-15-2019							
Rating Date	control	control	injury	injury	control	control							
Rating Type	percent	percent	percent	percent	percent	percent							
Rating Unit	46 DA-A	46 DA-A	7 DA-C	14 DA-C	14 DA-C	14 DA-C							
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						
12	Authority MTZ	45	WG	14	oz/a	PRE	A	100	100	7	4	100	100
12	Flexstar	1.88	L	1	pt/a	POST	C						
12	SelectMax	0.97	L	12	fl oz/a	POST	C						
12	COC		L	1	% v/v	POST	C						
12	AMS		WG	2.5	lb/a	POST	C						
13	Authority Supreme	4.16	L	9.8	fl oz/a	PRE	A	100	100	17	9	100	100
13	Marvel	3	L	7.25	fl oz/a	POST	C						
13	COC		L	1	% v/v	POST	C						
13	AMS		WG	2.5	lb/a	POST	C						
14	Zidua PRO	4.09	L	6	fl oz/a	PRE	A	100	100	5	3	93	100
15	Trivence	61.3	WG	8	oz/a	PRE	A	100	100	7	4	90	100
16	Prefix	5.29	L	2	pt/a	PRE	A	100	97	5	1	98	99
16	Metribuzin	75	WG	6	oz/a	PRE	A						
17	Warrant Ultra	3.45	L	50	fl oz/a	PRE	A	100	93	0	0	96	100
17	Metribuzin	75	WG	6	oz/a	PRE	A						
18	Matador	4.7	L	3.9	pt/a	PRE	A	33	95	14	25	90	78
18	Harmony SG	50	WG	0.125	oz/a	POST	C						
18	Flexstar	1.88	L	1	pt/a	POST	C						
18	Select Max	0.97	L	12	fl oz/a	POST	C						
18	Crop oil concentrate		L	0.5	% v/v	POST	C						
18	AMS		WG	2.5	lb/a	POST	C						
19	Moccasin MTZ	4.5	L	2.67	pt/a	PRE	A	99	92	16	6	100	100
19	Ultra Blazer	2	L	1.5	pt/a	POST	C						
19	Select Max	0.97	L	12	fl oz/a	POST	C						
19	Surfactant		L	0.25	% v/v	POST	C						
20	Tripzin ZC	4	L	2	pt/a	PRE	A	97	95	11	3	97	100
20	Ultra Blazer	2	L	1.5	pt/a	POST	C						
20	Select Max	0.97	L	12	fl oz/a	POST	C						
20	Surfactant		L	0.25	% v/v	POST	C						
21	Command 3ME	3	L	21	fl oz/a	PRE	A	100	100	11	4	100	100
21	Moccasin MTZ	4.5	L	2.5	pt/a	PRE	A						
21	Ultra Blazer	2	L	1.5	pt/a	POST	C						
21	Select Max	0.97	L	12	fl oz/a	POST	C						
21	Surfactant		L	0.25	% v/v	POST	C						
22	None												
23	Synchrony XP	28.4	WG	0.5	oz/a	EPOS	B	100	100	1	0	73	89
23	Cobra	2	L	8	fl oz/a	EPOS	B						
23	Assure II	0.88	L	9	fl oz/a	EPOS	B						
23	Crop oil concentrate		L	0.5	% v/v	EPOS	B						
23	AMS		WG	2.5	lb/a	EPOS	B						

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Pest Code	SINAR	ABUTH	GLXMA	GLXMA	ANGR	CHEAL
Crop Type, Code						
Rating Date	Jul-1-2019	Jul-1-2019	Jul-8-2019	Jul-15-2019	Jul-15-2019	Jul-15-2019
Rating Type	control	control	injury	injury	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	46 DA-A	46 DA-A	7 DA-C	14 DA-C	14 DA-C	14 DA-C
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code				
24	Basagran	5 L		1.6 pt/a		EPOS B		100	100	6	3
24	Ultra Blazer	2 L		1 pt/a		EPOS B					73
24	Select Max	0.97 L		12 fl oz/a		EPOS B					61
24	Crop oil concentrate	L		1 % v/v		EPOS B					
24	AMS	WG		2.5 lb/a		EPOS B					
25	None										
LSD P=.05								3.2	4.1	5.6	5.1
Standard Deviation								2.3	2.9	3.9	3.6
CV								2.49	3.1	43.24	72.51
											4.6
											3.2
											4.3
											4.65

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Pest Code	AMAPO	AMBEL	ABUTH	GLXMA	ANGR
Crop Type, Code					
Rating Date	Jul-15-2019	Jul-15-2019	Jul-15-2019	Jul-29-2019	Jul-29-2019
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	Rate Unit	Appl Timing	Appl Code	AMAPO	AMBEL	ABUTH	GLXMA	ANGR
1	Boundary	6.5 L		2.4 pt/a		PRE	A	100	100	96	0	100
1	Flexstar	1.88 L		12 fl oz/a		POST	C					
1	COC	L		1 % v/v		POST	C					
1	AMS	WG		2.5 lb/a		POST	C					
2	BroadAxe XC	7 L		32 fl oz/a		PRE	A	100	100	100	1	100
2	Flexstar	1.88 L		1 pt/a		POST	C					
2	COC	L		1 % v/v		POST	C					
2	AMS	WG		2.5 lb/a		POST	C					
3	Sonic	70 WG		6 oz/a		PRE	A	100	100	100	2	100
3	Boundary	6.5 L		1.5 pt/a		PRE	A					
3	Cobra	2 L		8 fl oz/a		POST	C					
3	COC	L		0.5 % v/v		POST	C					
4	Surveil	48 WG		3.5 oz/a		PRE	A	100	93	100	0	95
4	Metribuzin	75 WG		6 oz/a		PRE	A					
4	Assure II	0.88 L		7 fl oz/a		POST	C					
4	COC	L		1 % v/v		POST	C					
5	Untreated							0	0	0	0	0
6	Dimetric Charged	3.67 L		16 fl oz/a		PRE	A	100	94	97	1	99
6	SelectMax	0.97 L		9 fl oz/a		POST	C					
6	Surfactant	L		0.25 % v/v		POST	C					
6	AMS	WG		2.5 lb/a		POST	C					
7	Valor	51 WG		2.5 oz/a		PRE	A	100	99	100	0	96
7	Prowl H2O	3.7 L		2 pt/a		PRE	A					
7	Flexstar	1.88 L		1 pt/a		POST	C					
7	SelectMax	0.97 L		12 fl oz/a		POST	C					
7	COC	L		1 % v/v		POST	C					
7	AMS	WG		2.5 lb/a		POST	C					
8	Fierce	76 WG		3 oz/a		PRE	A	100	91	100	0	93
9	Fierce MTZ	2.64 L		16 fl oz/a		PRE	A	100	91	100	0	87
10	Valor XLT	40.3 WG		4 oz/a		PRE	A	100	100	100	0	95
10	Cobra	2 L		8 fl oz/a		POST	C					
10	COC	L		0.5 % v/v		POST	C					
11	Valor XLT	40.3 WG		2 oz/a		PRE	A	100	93	100	0	89
11	Valor	51 WG		1.5 oz/a		PRE	A					

Could not calculate LSD (% mean diff) for columns 5,19,22,25 because error mean square = 0.

Weed management systems in non-GMO soybean

Trial ID: SOY09-19

Location: Campus, C-16

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code						AMAPO	AMBEL	ABUTH	GLXMA	ANGR		
Crop Type, Code						Jul-15-2019	Jul-15-2019	Jul-15-2019	Jul-29-2019	Jul-29-2019		
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						0	0	0	0	0		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code					
12	Authority MTZ	45	WG	14	oz/a	PRE	A	100	100	100	0	100
12	Flexstar	1.88	L	1	pt/a	POST	C					
12	SelectMax	0.97	L	12	fl oz/a	POST	C					
12	COC		L	1	% v/v	POST	C					
12	AMS		WG	2.5	lb/a	POST	C					
13	Authority Supreme	4.16	L	9.8	fl oz/a	PRE	A	100	98	100	0	100
13	Marvel	3	L	7.25	fl oz/a	POST	C					
13	COC		L	1	% v/v	POST	C					
13	AMS		WG	2.5	lb/a	POST	C					
14	Zidua PRO	4.09	L	6	fl oz/a	PRE	A	100	88	100	0	92
15	Trivence	61.3	WG	8	oz/a	PRE	A	100	95	100	0	93
16	Prefix	5.29	L	2	pt/a	PRE	A	100	99	87	0	99
16	Metribuzin	75	WG	6	oz/a	PRE	A					
17	Warrant Ultra	3.45	L	50	fl oz/a	PRE	A	100	96	83	0	99
17	Metribuzin	75	WG	6	oz/a	PRE	A					
18	Matador	4.7	L	3.9	pt/a	PRE	A	93	69	100	0	96
18	Harmony SG	50	WG	0.125	oz/a	POST	C					
18	Flexstar	1.88	L	1	pt/a	POST	C					
18	Select Max	0.97	L	12	fl oz/a	POST	C					
18	Crop oil concentrate		L	0.5	% v/v	POST	C					
18	AMS		WG	2.5	lb/a	POST	C					
19	Moccasin MTZ	4.5	L	2.67	pt/a	PRE	A	100	97	91	0	100
19	Ultra Blazer	2	L	1.5	pt/a	POST	C					
19	Select Max	0.97	L	12	fl oz/a	POST	C					
19	Surfactant		L	0.25	% v/v	POST	C					
20	Tripzin ZC	4	L	2	pt/a	PRE	A	100	89	95	0	100
20	Ultra Blazer	2	L	1.5	pt/a	POST	C					
20	Select Max	0.97	L	12	fl oz/a	POST	C					
20	Surfactant		L	0.25	% v/v	POST	C					
21	Command 3ME	3	L	21	fl oz/a	PRE	A	100	100	100	0	100
21	Moccasin MTZ	4.5	L	2.5	pt/a	PRE	A					
21	Ultra Blazer	2	L	1.5	pt/a	POST	C					
21	Select Max	0.97	L	12	fl oz/a	POST	C					
21	Surfactant		L	0.25	% v/v	POST	C					
22	None											
23	Synchrony XP	28.4	WG	0.5	oz/a	EPOS	B	100	75	95	0	64
23	Cobra	2	L	8	fl oz/a	EPOS	B					
23	Assure II	0.88	L	9	fl oz/a	EPOS	B					
23	Crop oil concentrate		L	0.5	% v/v	EPOS	B					
23	AMS		WG	2.5	lb/a	EPOS	B					

Could not calculate LSD (% mean diff) for columns 5,19,22,25 because error mean square = 0.

Weed management systems in non-GMO soybean

Trial ID: SOY09-19

Location: Campus, C-16

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMAPO	AMBEL	ABUTH	GLXMA	ANGR
Crop Type, Code					
Rating Date	Jul-15-2019	Jul-15-2019	Jul-15-2019	Jul-29-2019	Jul-29-2019
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			
24	Basagran	5 L		1.6 pt/a		EPOS B		100	65	100
24	Ultra Blazer	2 L		1 pt/a		EPOS B				0
24	Select Max	0.97 L		12 fl oz/a		EPOS B				64
24	Crop oil concentrate	L		1 % v/v		EPOS B				
24	AMS	WG		2.5 lb/a		EPOS B				
25	None									
LSD P=.05								4.4	7.9	5.4
Standard Deviation								3.1	5.6	3.8
CV								3.28	6.37	4.11
										536.34
										9.4
										6.6
										7.4

Weed management systems in non-GMO soybean

Trial ID: SOY09-19

Location: Campus, C-16

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	CHEAL	AMAPO	AMBEL	ABUTH	GLXMA
Crop Type, Code					
Rating Date	Jul-29-2019	Jul-29-2019	Jul-29-2019	Jul-29-2019	Aug-28-2019
Rating Type	control	control	control	control	injury
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	28 DA-C	28 DA-C	28 DA-C	28 DA-C	56 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	CHEAL	AMAPO	AMBEL	ABUTH	GLXMA
1	Boundary	6.5 L		2.4 pt/a		PRE	A	100	100	100	98	0
1	Flexstar	1.88 L		12 fl oz/a		POST	C					
1	COC	L		1 % v/v		POST	C					
1	AMS	WG		2.5 lb/a		POST	C					
2	BroadAxe XC	7 L		32 fl oz/a		PRE	A	100	100	100	100	0
2	Flexstar	1.88 L		1 pt/a		POST	C					
2	COC	L		1 % v/v		POST	C					
2	AMS	WG		2.5 lb/a		POST	C					
3	Sonic	70 WG		6 oz/a		PRE	A	100	100	100	100	0
3	Boundary	6.5 L		1.5 pt/a		PRE	A					
3	Cobra	2 L		8 fl oz/a		POST	C					
3	COC	L		0.5 % v/v		POST	C					
4	Surveil	48 WG		3.5 oz/a		PRE	A	100	100	96	100	0
4	Metribuzin	75 WG		6 oz/a		PRE	A					
4	Assure II	0.88 L		7 fl oz/a		POST	C					
4	COC	L		1 % v/v		POST	C					
5	Untreated							0	0	0	0	0
6	Dimetric Charged	3.67 L		16 fl oz/a		PRE	A	100	100	99	100	0
6	SelectMax	0.97 L		9 fl oz/a		POST	C					
6	Surfactant	L		0.25 % v/v		POST	C					
6	AMS	WG		2.5 lb/a		POST	C					
7	Valor	51 WG		2.5 oz/a		PRE	A	100	100	100	100	0
7	Prowl H2O	3.7 L		2 pt/a		PRE	A					
7	Flexstar	1.88 L		1 pt/a		POST	C					
7	SelectMax	0.97 L		12 fl oz/a		POST	C					
7	COC	L		1 % v/v		POST	C					
7	AMS	WG		2.5 lb/a		POST	C					
8	Fierce	76 WG		3 oz/a		PRE	A	100	100	91	99	0
9	Fierce MTZ	2.64 L		16 fl oz/a		PRE	A	100	100	93	100	0
10	Valor XLT	40.3 WG		4 oz/a		PRE	A	100	100	100	100	0
10	Cobra	2 L		8 fl oz/a		POST	C					
10	COC	L		0.5 % v/v		POST	C					
11	Valor XLT	40.3 WG		2 oz/a		PRE	A	100	100	99	100	0
11	Valor	51 WG		1.5 oz/a		PRE	A					

Could not calculate LSD (% mean diff) for columns 5,19,22,25 because error mean square = 0.

Weed management systems in non-GMO soybean

Trial ID: SOY09-19

Location: Campus, C-16

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	CHEAL	AMAPO	AMBEL	ABUTH	GLXMA							
Crop Type, Code	Jul-29-2019	Jul-29-2019	Jul-29-2019	Jul-29-2019	Aug-28-2019							
Rating Date	control	control	control	control	injury							
Rating Type	percent	percent	percent	percent	percent							
Rating Unit	28 DA-C	28 DA-C	28 DA-C	28 DA-C	56 DA-C							
Trt-Eval Interval	0	0	0	0	0							
Number of Decimals	0	0	0	0	0							
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Appl Timing	Appl Code					
12	Authority MTZ	45	WG	14	oz/a	PRE	A	100	100	100	100	0
12	Flexstar	1.88	L	1	pt/a	POST	C					
12	SelectMax	0.97	L	12	fl oz/a	POST	C					
12	COC		L	1	% v/v	POST	C					
12	AMS		WG	2.5	lb/a	POST	C					
13	Authority Supreme	4.16	L	9.8	fl oz/a	PRE	A	100	100	100	100	0
13	Marvel	3	L	7.25	fl oz/a	POST	C					
13	COC		L	1	% v/v	POST	C					
13	AMS		WG	2.5	lb/a	POST	C					
14	Zidua PRO	4.09	L	6	fl oz/a	PRE	A	100	100	87	100	0
15	Trivence	61.3	WG	8	oz/a	PRE	A	100	100	92	100	0
16	Prefix	5.29	L	2	pt/a	PRE	A	100	100	100	96	0
16	Metribuzin	75	WG	6	oz/a	PRE	A					
17	Warrant Ultra	3.45	L	50	fl oz/a	PRE	A	100	100	97	93	0
17	Metribuzin	75	WG	6	oz/a	PRE	A					
18	Matador	4.7	L	3.9	pt/a	PRE	A	65	100	51	96	0
18	Harmony SG	50	WG	0.125	oz/a	POST	C					
18	Flexstar	1.88	L	1	pt/a	POST	C					
18	Select Max	0.97	L	12	fl oz/a	POST	C					
18	Crop oil concentrate		L	0.5	% v/v	POST	C					
18	AMS		WG	2.5	lb/a	POST	C					
19	Moccasin MTZ	4.5	L	2.67	pt/a	PRE	A	100	100	99	99	0
19	Ultra Blazer	2	L	1.5	pt/a	POST	C					
19	Select Max	0.97	L	12	fl oz/a	POST	C					
19	Surfactant		L	0.25	% v/v	POST	C					
20	Tripzin ZC	4	L	2	pt/a	PRE	A	100	100	95	99	0
20	Ultra Blazer	2	L	1.5	pt/a	POST	C					
20	Select Max	0.97	L	12	fl oz/a	POST	C					
20	Surfactant		L	0.25	% v/v	POST	C					
21	Command 3ME	3	L	21	fl oz/a	PRE	A	100	100	100	100	0
21	Moccasin MTZ	4.5	L	2.5	pt/a	PRE	A					
21	Ultra Blazer	2	L	1.5	pt/a	POST	C					
21	Select Max	0.97	L	12	fl oz/a	POST	C					
21	Surfactant		L	0.25	% v/v	POST	C					
22	None											
23	Synchrony XP	28.4	WG	0.5	oz/a	EPOS	B	98	100	73	91	0
23	Cobra	2	L	8	fl oz/a	EPOS	B					
23	Assure II	0.88	L	9	fl oz/a	EPOS	B					
23	Crop oil concentrate		L	0.5	% v/v	EPOS	B					
23	AMS		WG	2.5	lb/a	EPOS	B					

Could not calculate LSD (% mean diff) for columns 5,19,22,25 because error mean square = 0.

Weed management systems in non-GMO soybean

Trial ID: SOY09-19

Location: Campus, C-16

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	CHEAL	AMAPO	AMBEL	ABUTH	GLXMA
Crop Type, Code					
Rating Date	Jul-29-2019	Jul-29-2019	Jul-29-2019	Jul-29-2019	Aug-28-2019
Rating Type	control	control	control	control	injury
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	28 DA-C	28 DA-C	28 DA-C	28 DA-C	56 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			
24	Basagran	5 L		1.6 pt/a		EPOS B		69	100	48 98 0
24	Ultra Blazer	2 L		1 pt/a		EPOS B				
24	Select Max	0.97 L		12 fl oz/a		EPOS B				
24	Crop oil concentrate	L		1 % v/v		EPOS B				
24	AMS	WG		2.5 lb/a		EPOS B				
25	None									
LSD P=.05								5.7	.	9.0 4.9 .
Standard Deviation								4.0	0.0	6.3 3.5 0.0
CV								4.37	0.0	7.23 3.71 0.0

Weed management systems in non-GMO soybean

Trial ID: SOY09-19

Location: Campus, C-16

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Type, Code					
Rating Date	Aug-28-2019	Aug-28-2019	Aug-28-2019	Aug-28-2019	Aug-28-2019
Rating Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	56 DA-C	56 DA-C	56 DA-C	56 DA-C	56 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	Boundary	6.5 L		2.4 pt/a		PRE	A	100	97	100	100	98
1	Flexstar	1.88 L		12 fl oz/a		POST	C					
1	COC	L		1 % v/v		POST	C					
1	AMS	WG		2.5 lb/a		POST	C					
2	BroadAxe XC	7 L		32 fl oz/a		PRE	A	99	100	100	100	100
2	Flexstar	1.88 L		1 pt/a		POST	C					
2	COC	L		1 % v/v		POST	C					
2	AMS	WG		2.5 lb/a		POST	C					
3	Sonic	70 WG		6 oz/a		PRE	A	99	100	100	98	100
3	Boundary	6.5 L		1.5 pt/a		PRE	A					
3	Cobra	2 L		8 fl oz/a		POST	C					
3	COC	L		0.5 % v/v		POST	C					
4	Surveil	48 WG		3.5 oz/a		PRE	A	92	100	100	86	100
4	Metribuzin	75 WG		6 oz/a		PRE	A					
4	Assure II	0.88 L		7 fl oz/a		POST	C					
4	COC	L		1 % v/v		POST	C					
5	Untreated							0	0	0	0	0
6	Dimetric Charged	3.67 L		16 fl oz/a		PRE	A	96	99	100	95	98
6	SelectMax	0.97 L		9 fl oz/a		POST	C					
6	Surfactant	L		0.25 % v/v		POST	C					
6	AMS	WG		2.5 lb/a		POST	C					
7	Valor	51 WG		2.5 oz/a		PRE	A	94	100	100	100	100
7	Prowl H2O	3.7 L		2 pt/a		PRE	A					
7	Flexstar	1.88 L		1 pt/a		POST	C					
7	SelectMax	0.97 L		12 fl oz/a		POST	C					
7	COC	L		1 % v/v		POST	C					
7	AMS	WG		2.5 lb/a		POST	C					
8	Fierce	76 WG		3 oz/a		PRE	A	90	100	100	86	100
9	Fierce MTZ	2.64 L		16 fl oz/a		PRE	A	88	100	100	81	100
10	Valor XLT	40.3 WG		4 oz/a		PRE	A	92	100	100	100	99
10	Cobra	2 L		8 fl oz/a		POST	C					
10	COC	L		0.5 % v/v		POST	C					
11	Valor XLT	40.3 WG		2 oz/a		PRE	A	89	100	100	85	100
11	Valor	51 WG		1.5 oz/a		PRE	A					

Weed management systems in non-GMO soybean

Trial ID: SOY09-19

Location: Campus, C-16

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code						ANGR	CHEAL	AMAPO	AMBEL	ABUTH			
Crop Type, Code						Aug-28-2019	Aug-28-2019	Aug-28-2019	Aug-28-2019	Aug-28-2019			
Rating Date						control	control	control	control	control			
Rating Type						percent	percent	percent	percent	percent			
Rating Unit						56 DA-C	56 DA-C	56 DA-C	56 DA-C	56 DA-C			
Trt-Eval Interval						0	0	0	0	0			
Number of Decimals						0	0	0	0	0			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code						
12	Authority MTZ	45	WG	14	oz/a	PRE	A	100	100	100	100	100	100
12	Flexstar	1.88	L	1	pt/a	POST	C						
12	SelectMax	0.97	L	12	fl oz/a	POST	C						
12	COC		L	1	% v/v	POST	C						
12	AMS		WG	2.5	lb/a	POST	C						
13	Authority Supreme	4.16	L	9.8	fl oz/a	PRE	A	100	100	100	98	100	100
13	Marvel	3	L	7.25	fl oz/a	POST	C						
13	COC		L	1	% v/v	POST	C						
13	AMS		WG	2.5	lb/a	POST	C						
14	Zidua PRO	4.09	L	6	fl oz/a	PRE	A	89	100	100	77	100	100
15	Trivence	61.3	WG	8	oz/a	PRE	A	87	100	100	87	100	100
16	Prefix	5.29	L	2	pt/a	PRE	A	99	99	100	96	96	96
16	Metribuzin	75	WG	6	oz/a	PRE	A						
17	Warrant Ultra	3.45	L	50	fl oz/a	PRE	A	98	100	100	90	90	90
17	Metribuzin	75	WG	6	oz/a	PRE	A						
18	Matador	4.7	L	3.9	pt/a	PRE	A	92	91	100	48	93	93
18	Harmony SG	50	WG	0.125	oz/a	POST	C						
18	Flexstar	1.88	L	1	pt/a	POST	C						
18	Select Max	0.97	L	12	fl oz/a	POST	C						
18	Crop oil concentrate		L	0.5	% v/v	POST	C						
18	AMS		WG	2.5	lb/a	POST	C						
19	Moccasin MTZ	4.5	L	2.67	pt/a	PRE	A	100	100	100	92	98	98
19	Ultra Blazer	2	L	1.5	pt/a	POST	C						
19	Select Max	0.97	L	12	fl oz/a	POST	C						
19	Surfactant		L	0.25	% v/v	POST	C						
20	Tripzin ZC	4	L	2	pt/a	PRE	A	100	100	100	85	98	98
20	Ultra Blazer	2	L	1.5	pt/a	POST	C						
20	Select Max	0.97	L	12	fl oz/a	POST	C						
20	Surfactant		L	0.25	% v/v	POST	C						
21	Command 3ME	3	L	21	fl oz/a	PRE	A	100	100	100	100	100	100
21	Moccasin MTZ	4.5	L	2.5	pt/a	PRE	A						
21	Ultra Blazer	2	L	1.5	pt/a	POST	C						
21	Select Max	0.97	L	12	fl oz/a	POST	C						
21	Surfactant		L	0.25	% v/v	POST	C						
22	None												
23	Synchrony XP	28.4	WG	0.5	oz/a	EPOS	B	70	83	100	72	100	100
23	Cobra	2	L	8	fl oz/a	EPOS	B						
23	Assure II	0.88	L	9	fl oz/a	EPOS	B						
23	Crop oil concentrate		L	0.5	% v/v	EPOS	B						
23	AMS		WG	2.5	lb/a	EPOS	B						

Could not calculate LSD (% mean diff) for columns 5,19,22,25 because error mean square = 0.

Weed management systems in non-GMO soybean

Trial ID: SOY09-19

Location: Campus, C-16

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Type, Code					
Rating Date	Aug-28-2019	Aug-28-2019	Aug-28-2019	Aug-28-2019	Aug-28-2019
Rating Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	56 DA-C	56 DA-C	56 DA-C	56 DA-C	56 DA-C
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Appl Timing	Appl Code				
24	Basagran	5 L		1.6	pt/a	EPOS	B	55	69	100	24 90
24	Ultra Blazer	2 L		1	pt/a	EPOS	B				
24	Select Max	0.97 L		12	fl oz/a	EPOS	B				
24	Crop oil concentrate	L		1	% v/v	EPOS	B				
24	AMS	WG		2.5	lb/a	EPOS	B				
25	None										
LSD P=.05				8.9					5.7	.	9.2 5.9
Standard Deviation				6.3					4.0	0.0	6.5 4.2
CV				7.12					4.34	0.0	7.91 4.46

Weed management systems in non-GMO soybean

Trial ID: SOY09-19

Location: Campus, C-16

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code		
Crop Type, Code	GLXMA	GLXMA
Rating Date	Oct-8-2019	Oct-8-2019
Rating Type	moisture	yield
Rating Unit	percent	bu/acre
Trt-Eval Interval	99 DA-C	at 13% M
Number of Decimals	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code		
1	Boundary	6.5 L		2.4 pt/a		PRE	A	12.4	44.2
1	Flexstar	1.88 L		12 fl oz/a		POST	C		
1	COC	L		1 % v/v		POST	C		
1	AMS	WG		2.5 lb/a		POST	C		
2	BroadAxe XC	7 L		32 fl oz/a		PRE	A	12.2	48.5
2	Flexstar	1.88 L		1 pt/a		POST	C		
2	COC	L		1 % v/v		POST	C		
2	AMS	WG		2.5 lb/a		POST	C		
3	Sonic	70 WG		6 oz/a		PRE	A	12.4	40.0
3	Boundary	6.5 L		1.5 pt/a		PRE	A		
3	Cobra	2 L		8 fl oz/a		POST	C		
3	COC	L		0.5 % v/v		POST	C		
4	Surveil	48 WG		3.5 oz/a		PRE	A	12.5	41.4
4	Metribuzin	75 WG		6 oz/a		PRE	A		
4	Assure II	0.88 L		7 fl oz/a		POST	C		
4	COC	L		1 % v/v		POST	C		
5	Untreated							12.1	15.7
6	Dimetric Charged	3.67 L		16 fl oz/a		PRE	A	12.3	48.5
6	SelectMax	0.97 L		9 fl oz/a		POST	C		
6	Surfactant	L		0.25 % v/v		POST	C		
6	AMS	WG		2.5 lb/a		POST	C		
7	Valor	51 WG		2.5 oz/a		PRE	A	12.7	46.0
7	Prowl H2O	3.7 L		2 pt/a		PRE	A		
7	Flexstar	1.88 L		1 pt/a		POST	C		
7	SelectMax	0.97 L		12 fl oz/a		POST	C		
7	COC	L		1 % v/v		POST	C		
7	AMS	WG		2.5 lb/a		POST	C		
8	Fierce	76 WG		3 oz/a		PRE	A	12.0	51.8
9	Fierce MTZ	2.64 L		16 fl oz/a		PRE	A	12.2	45.2
10	Valor XLT	40.3 WG		4 oz/a		PRE	A	12.2	48.2
10	Cobra	2 L		8 fl oz/a		POST	C		
10	COC	L		0.5 % v/v		POST	C		
11	Valor XLT	40.3 WG		2 oz/a		PRE	A	12.2	45.1
11	Valor	51 WG		1.5 oz/a		PRE	A		

Weed management systems in non-GMO soybean

Trial ID: SOY09-19

Location: Campus, C-16

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code			
Crop Type, Code		GLXMA	GLXMA
Rating Date		Oct-8-2019	Oct-8-2019
Rating Type		moisture	yield
Rating Unit		percent	bu/acre
Trt-Eval Interval		99 DA-C	at 13% M
Number of Decimals		1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code		
12	Authority MTZ	45	WG	14	oz/a	PRE	A	12.3	51.6
12	Flexstar	1.88	L	1	pt/a	POST	C		
12	SelectMax	0.97	L	12	fl oz/a	POST	C		
12	COC		L	1	% v/v	POST	C		
12	AMS		WG	2.5	lb/a	POST	C		
13	Authority Supreme	4.16	L	9.8	fl oz/a	PRE	A	12.2	39.1
13	Marvel	3	L	7.25	fl oz/a	POST	C		
13	COC		L	1	% v/v	POST	C		
13	AMS		WG	2.5	lb/a	POST	C		
14	Zidua PRO	4.09	L	6	fl oz/a	PRE	A	12.7	45.8
15	Trivence	61.3	WG	8	oz/a	PRE	A	12.3	45.2
16	Prefix	5.29	L	2	pt/a	PRE	A	12.2	43.7
16	Metribuzin	75	WG	6	oz/a	PRE	A		
17	Warrant Ultra	3.45	L	50	fl oz/a	PRE	A	12.5	38.4
17	Metribuzin	75	WG	6	oz/a	PRE	A		
18	Matador	4.7	L	3.9	pt/a	PRE	A	11.2	35.1
18	Harmony SG	50	WG	0.125	oz/a	POST	C		
18	Flexstar	1.88	L	1	pt/a	POST	C		
18	Select Max	0.97	L	12	fl oz/a	POST	C		
18	Crop oil concentrate		L	0.5	% v/v	POST	C		
18	AMS		WG	2.5	lb/a	POST	C		
19	Moccasin MTZ	4.5	L	2.67	pt/a	PRE	A	12.2	48.0
19	Ultra Blazer	2	L	1.5	pt/a	POST	C		
19	Select Max	0.97	L	12	fl oz/a	POST	C		
19	Surfactant		L	0.25	% v/v	POST	C		
20	Tripzin ZC	4	L	2	pt/a	PRE	A	12.2	51.2
20	Ultra Blazer	2	L	1.5	pt/a	POST	C		
20	Select Max	0.97	L	12	fl oz/a	POST	C		
20	Surfactant		L	0.25	% v/v	POST	C		
21	Command 3ME	3	L	21	fl oz/a	PRE	A	12.2	44.2
21	Moccasin MTZ	4.5	L	2.5	pt/a	PRE	A		
21	Ultra Blazer	2	L	1.5	pt/a	POST	C		
21	Select Max	0.97	L	12	fl oz/a	POST	C		
21	Surfactant		L	0.25	% v/v	POST	C		
22	None								
23	Synchrony XP	28.4	WG	0.5	oz/a	EPOS	B	13.0	49.2
23	Cobra	2	L	8	fl oz/a	EPOS	B		
23	Assure II	0.88	L	9	fl oz/a	EPOS	B		
23	Crop oil concentrate		L	0.5	% v/v	EPOS	B		
23	AMS		WG	2.5	lb/a	EPOS	B		

Weed management systems in non-GMO soybean

Trial ID: SOY09-19

Location: Campus, C-16

Investigator: Christy Sprague

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Pest Code		
Crop Type, Code	GLXMA	GLXMA
Rating Date	Oct-8-2019	Oct-8-2019
Rating Type	moisture	yield
Rating Unit	percent	bu/acre
Trt-Eval Interval	99 DA-C	at 13% M
Number of Decimals	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code		
24	Basagran	5	L	1.6	pt/a	EPOS	B	12.6	41.3
24	Ultra Blazer	2	L	1	pt/a	EPOS	B		
24	Select Max	0.97	L	12	fl oz/a	EPOS	B		
24	Crop oil concentrate		L	1	% v/v	EPOS	B		
24	AMS		WG	2.5	lb/a	EPOS	B		

25 None

LSD P=.05	0.70	11.18
Standard Deviation	0.50	7.92
CV	4.06	18.08