

**Weed control in non-GMO soybean**

Trial ID: SOY04-16 Study Dir.: Sprague, Powell, Stiles  
 Conducted: Campus T-10 Investigator: Christy Sprague

**Planting Date:** May-9-2016 **Row Spacing:** 30 IN  
**Variety:** MICA 2308N **No. of Reps:** 4  
**Population:** 152000 seeds/A **% OM:** 2.9  
**Soil Type:** L loam **pH:** 7.2  
**Plot Size:** 10 X 35 FT **Study Design:** Randomized Complete Block (RCB)

**Tillage/Previous Crops:** Fall chisel plowed; spring soil finished  
**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	POST	LPOS	LLPOS
<b>Date Treated:</b>	May-9-2016	Jun-9-2016	Jun-13-2016	Jun-21-2016
<b>Time Treated:</b>	2:30 PM	8:30 PM	9:35 AM	10:15 AM
<b>% Cloud Cover:</b>	60	10	70	0
<b>Air Temp., Unit:</b>	70 F	61 F	61 F	80 F
<b>% Relative Humidity:</b>	24	61	58	34
<b>Wind Speed/Unit/Dir:</b>	5 mph E	4 mph SW	4 mph SE	4 mph S
<b>Soil Temp, Unit:</b>	58 F	64 F	68 F	70 F
<b>Leaf Moist/Dew Presence (Y/N):</b>	5	5	5	5
<b>Soil Moist:</b>	3	4	5	5

**Crop Stage at Each Application**

	A	B	C	D
<b>Crop 1 Name:</b>	GLXMA	GLXMA	GLXMA	GLXMA
<b>Height:</b>		5 "	6 "	6 "
<b>Stage:</b>		V2	V2	V3

**Weed Stage at Each Application**

	A	B	C	D
<b>Weed 1 Name:</b>	ANGR	ANGR	ANGR	ANGR
<b>Height:</b>		1-7 " (4)	6 "	4 "
<b>Stage:</b>		2-5L	3L	4L
<b>Weed 2 Name:</b>	CHEAL	CHEAL	CHEAL	CHEAL
<b>Height:</b>		1-2 " (1)	3 "	3 "
<b>Stage:</b>		7L	7L	7L
<b>Weed 3 Name:</b>	AMAPO	AMAPO	AMAPO	AMAPO
<b>Height:</b>		2-3 " (2)	2 "	
<b>Stage:</b>		6L	6L	
<b>Weed 4 Name:</b>	AMBEL	AMBEL	AMBEL	AMBEL
<b>Height:</b>		2-3 " (2)	5 "	6 IN
<b>Stage:</b>		6L	10L	8L
<b>Weed 5 Name:</b>	ABUTH	ABUTH	ABUTH	ABUTH
<b>Height:</b>		4 "	2 "	4 "
<b>Stage:</b>		5L	3L	4L

**Weed Density**

	1	2	3	4	5
<b>Date:</b>	Jun-21-2016	Jun-21-2016	Jun-21-2016	Jun-21-2016	Jun-21-2016
<b>Weed Name:</b>	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
<b>Density:</b>	48 FT2	2 FT2	1 FT2	4 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	AIXR	11003	24 "	20 "	100 "	19 GAL/AC	WATER	30 PSI
<b>B</b>	CUB	3.8 mph	AIXR	11003	24 "	20 "	100 "	19 GAL/AC	WATER	30 PSI
<b>C</b>	CUB	3.8 mph	AIXR	11003	24 "	20 "	100 "	19 GAL/AC	WATER	30 PSI
<b>D</b>	CUB	3.8 mph	AIXR	11003	24 "	20 "	100 "	19 GAL/AC	WATER	30 PSI

**Comments:** The common ragweed population at this location is ALS-resistant.

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Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code		ANGR	CHEAL	AMAPO	AMBEL		
Crop Code	GLXMA					GLXMA	GLXMA
Rating Date	Jun-6-2016	Jun-6-2016	Jun-6-2016	Jun-6-2016	Jun-6-2016	Jun-16-2016	Jun-23-2016
Rating Type	injury	control	control	control	control	injury	injury
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	7 DA-B	14 DA-B
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code							
1	Valor	2.5 oz/a	A		6	61	89	93	58	21	13
1	Prowl H2O	2 pt/a	A								
1	Cobra	8 fl oz/a	B								
1	Select Max	12 fl oz/a	B								
1	Crop oil concentrate	0.5 % v/v	B								
1	AMS	2.5 lb/a	B								
1	Harmony SG	0.125 oz/a	D								
1	Surfactant	0.25 % v/v	D								
1	AMS	2.5 lb/a	D								
2	Fierce	3 oz/a	A		9	61	88	100	66	24	24
2	Cadet	0.5 fl oz/a	B								
2	Basagran	1.5 pt/a	B								
2	Select Max	12 fl oz/a	B								
2	Crop oil concentrate	0.5 % v/v	B								
2	Cobra	8 fl oz/a	D								
2	Crop oil concentrate	0.5 % v/v	D								
3	Fierce	3 oz/a	A		6	63	93	100	70	15	8
3	Metribuzin	6 oz/a	A								
3	Flexstar	1 pt/a	B								
3	Select Max	12 fl oz/a	B								
3	Crop oil concentrate	1 % v/v	B								
3	AMS	2.5 lb/a	B								
4	Fierce XLT	4 oz/a	A		14	75	100	100	83	14	15
4	Flexstar	1 pt/a	C								
4	Select Max	12 fl oz/a	C								
4	Crop oil concentrate	1 % v/v	C								
4	AMS	2.5 lb/a	C								
5	Trivence	6 oz/a	A		4	65	100	100	78	9	5
5	Metribuzin	1.4 oz/a	A								
5	Synchrony	0.375 oz/a	B								
5	Assure II	8 fl oz/a	B								
5	Surfactant	0.25 % v/v	B								
6	Trivence	8 oz/a	A		7	71	100	100	81	25	16
6	Prefix	2 pt/a	B								
6	Select Max	9 fl oz/a	B								
6	Surfactant	0.25 % v/v	B								

Missing data estimates are included in columns:Average=31

Could not calculate LSD (% mean diff) for columns 11,24,27 because error mean square = 0.



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Pest Code		ANGR	CHEAL	AMAPO	AMBEL		
Crop Code	GLXMA					GLXMA	GLXMA
Rating Date	Jun-6-2016	Jun-6-2016	Jun-6-2016	Jun-6-2016	Jun-6-2016	Jun-16-2016	Jun-23-2016
Rating Type	injury	control	control	control	control	injury	injury
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	7 DA-B	14 DA-B
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code							
16	Authority MTZ	14 oz/a	A		0	40	100	100	40	10	7
16	Flexstar	1 pt/a	B								
16	SelectMax	9 fl oz/a	B								
16	Crop oil concentrate	1 % v/v	B								
16	AMS	2.5 lb/a	B								
17	Authority MTZ	14 oz/a	A		0	44	100	100	40	41	16
17	Anthem MAXX	3 fl oz/a	B								
17	Flexstar	1 pt/a	B								
17	Select Max	9 fl oz/a	B								
17	Crop oil concentrate	1 % v/v	B								
17	AMS	2.5 lb/a	B								
18	Authority MTZ	14 oz/a	A		2	80	100	100	61	20	14
18	Dual II Magnum	1 pt/a	A								
18	Marvel	7.25 fl oz/a	B								
18	Crop oil concentrate	1 % v/v	B								
19	Authority MTZ	14 oz/a	A		0	68	100	100	59	23	11
19	Anthem MAXX	3 fl oz/a	A								
19	Marvel	7.25 fl oz/a	B								
19	Crop oil concentrate	1 % v/v	B								
20	Valor	2 oz/a	A		8	54	100	100	81	14	12
20	Metribuzin	8 oz/a	A								
20	Warrant Ultra	3 pt/a	B								
20	Select Max	12 fl oz/a	B								
20	Surfactant	0.25 % v/v	B								
21	Metribuzin	5 oz/a	A		1	84	98	100	63	18	10
21	Dual II Magnum	1.33 pt/a	A								
21	Linex	1 pt/a	A								
21	Ultra Blazer	1.5 pt/a	B								
21	Assure II	8 fl oz/a	B								
21	Surfactant	0.25 % v/v	B								
LSD P=.05					3.4	9.5	4.7	1.7	12.1	5.7	4.4
Standard Deviation					2.4	6.7	3.3	1.2	8.6	4.0	3.1
CV					72.75	10.51	3.57	1.29	13.19	21.54	26.12

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Study Director: Sprague, Powell, Stiles

Pest Code	ANGR	CHEAL	AMBEL	SINAR		ANGR
Crop Code					GLXMA	
Rating Date	Jun-23-2016	Jun-23-2016	Jun-23-2016	Jun-23-2016	Jun-27-2016	Jun-27-2016
Rating Type	control	control	control	control	injury	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-C	14 DA-C
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code						
1	Valor	2.5 oz/a	A		87	86	90	100	23	92
1	Prowl H2O	2 pt/a	A							
1	Cobra	8 fl oz/a	B							
1	Select Max	12 fl oz/a	B							
1	Crop oil concentrate	0.5 % v/v	B							
1	AMS	2.5 lb/a	B							
1	Harmony SG	0.125 oz/a	D							
1	Surfactant	0.25 % v/v	D							
1	AMS	2.5 lb/a	D							
2	Fierce	3 oz/a	A		75	100	98	100	25	78
2	Cadet	0.5 fl oz/a	B							
2	Basagran	1.5 pt/a	B							
2	Select Max	12 fl oz/a	B							
2	Crop oil concentrate	0.5 % v/v	B							
2	Cobra	8 fl oz/a	D							
2	Crop oil concentrate	0.5 % v/v	D							
3	Fierce	3 oz/a	A		96	96	98	100	5	92
3	Metribuzin	6 oz/a	A							
3	Flexstar	1 pt/a	B							
3	Select Max	12 fl oz/a	B							
3	Crop oil concentrate	1 % v/v	B							
3	AMS	2.5 lb/a	B							
4	Fierce XLT	4 oz/a	A		95	100	100	100	7	94
4	Flexstar	1 pt/a	C							
4	Select Max	12 fl oz/a	C							
4	Crop oil concentrate	1 % v/v	C							
4	AMS	2.5 lb/a	C							
5	Trivence	6 oz/a	A		38	100	68	100	3	70
5	Metribuzin	1.4 oz/a	A							
5	Synchrony	0.375 oz/a	B							
5	Assure II	8 fl oz/a	B							
5	Surfactant	0.25 % v/v	B							
6	Trivence	8 oz/a	A		66	100	99	100	11	80
6	Prefix	2 pt/a	B							
6	Select Max	9 fl oz/a	B							
6	Surfactant	0.25 % v/v	B							

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Crop Code					GLXMA	
Rating Date	Jun-23-2016	Jun-23-2016	Jun-23-2016	Jun-23-2016	Jun-27-2016	Jun-27-2016
Rating Type	control	control	control	control	injury	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-C	14 DA-C
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code						
7	Sonic	6 oz/a	A		98	100	100	100	5	97
7	Boundary	1.5 pt/a	A							
7	Flexstar	1 pt/a	C							
7	Select Max	12 fl oz/a	C							
7	Crop oil concentrate	1 % v/v	C							
7	AMS	2.5 lb/a	C							
8	Zidua PRO	6 fl oz/a	A		88	100	100	100	11	92
8	Cobra	8 fl oz/a	C							
8	Select Max	12 fl oz/a	C							
8	Crop oil concentrate	0.5 % v/v	C							
9	BroadAxe XC	32 fl oz/a	A		96	100	43	100	1	92
9	FirstRate	0.3 oz/a	B							
9	Select Max	9 fl oz/a	B							
9	Surfactant	0.25 % v/v	B							
9	AMS	2.5 lb/a	B							
10	Boundary	2.4 pt/a	A		98	98	99	100	4	94
10	Flexstar	1 pt/a	B							
10	SelectMax	12 fl oz/a	B							
10	Crop oil concentrate	1 % v/v	B							
10	AMS	2.5 lb/a	B							
11	Prefix	2 pt/a	A		93	95	99	100	10	89
11	Metribuzin	6 oz/a	A							
11	Cobra	8 fl oz/a	C							
11	Fusilade DX	12 fl oz/a	C							
11	Crop oil concentrate	0.5 % v/v	C							
11	AMS	2.5 lb/a	C							
12	Warrant Ultra	50 fl oz/a	A		83	100	93	100	8	87
12	Metribuzin	6 oz/a	A							
12	Select Max	9 fl oz/a	B							
12	Crop oil concentrate	1 % v/v	B							
12	Cadet	0.9 fl oz/a	C							
12	Crop oil concentrate	1 % v/v	C							
13	Untreated				0	0	0	0	0	0
14	Afforia	2.5 oz/a	A		16	100	65	100	6	63
14	Metribuzin	5 oz/a	A							
14	Synchrony	0.375 oz/a	B							
14	Assure II	8 fl oz/a	B							
14	Surfactant	0.25 % v/v	B							
15	Authority MTZ	14 oz/a	A		73	100	43	100	1	82
15	SelectMax	9 fl oz/a	B							
15	Crop oil concentrate	1 % v/v	B							
15	AMS	2.5 lb/a	B							

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Crop Code					GLXMA	
Rating Date	Jun-23-2016	Jun-23-2016	Jun-23-2016	Jun-23-2016	Jun-27-2016	Jun-27-2016
Rating Type	control	control	control	control	injury	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-C	14 DA-C
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code						
16	Authority MTZ	14 oz/a	A		85	100	88	100	5	85
16	Flexstar	1 pt/a	B							
16	SelectMax	9 fl oz/a	B							
16	Crop oil concentrate	1 % v/v	B							
16	AMS	2.5 lb/a	B							
17	Authority MTZ	14 oz/a	A		85	100	99	100	12	86
17	Anthem MAXX	3 fl oz/a	B							
17	Flexstar	1 pt/a	B							
17	Select Max	9 fl oz/a	B							
17	Crop oil concentrate	1 % v/v	B							
17	AMS	2.5 lb/a	B							
18	Authority MTZ	14 oz/a	A		51	100	49	100	4	58
18	Dual II Magnum	1 pt/a	A							
18	Marvel	7.25 fl oz/a	B							
18	Crop oil concentrate	1 % v/v	B							
19	Authority MTZ	14 oz/a	A		55	100	79	100	4	50
19	Anthem MAXX	3 fl oz/a	A							
19	Marvel	7.25 fl oz/a	B							
19	Crop oil concentrate	1 % v/v	B							
20	Valor	2 oz/a	A		80	99	86	100	12	88
20	Metribuzin	8 oz/a	A							
20	Warrant Ultra	3 pt/a	B							
20	Select Max	12 fl oz/a	B							
20	Surfactant	0.25 % v/v	B							
21	Metribuzin	5 oz/a	A		78	99	78	100	3	72
21	Dual II Magnum	1.33 pt/a	A							
21	Linex	1 pt/a	A							
21	Ultra Blazer	1.5 pt/a	B							
21	Assure II	8 fl oz/a	B							
21	Surfactant	0.25 % v/v	B							
	LSD P=.05				10.0	5.1	9.5	.	3.5	7.4
	Standard Deviation				7.1	3.6	6.8	0.0	2.5	5.2
	CV				9.71	3.88	8.5	0.0	33.44	6.72







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Pest Code	CHEAL	AMAPO	AMBEL	ABUTH		ANGR	CHEAL
Crop Code					GLXMA		
Rating Date	Jun-27-2016	Jun-27-2016	Jun-27-2016	Jun-27-2016	Jul-7-2016	Jul-7-2016	Jul-7-2016
Rating Type	control	control	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-C	14 DA-C	14 DA-C	14 DA-C	28 DA-B	28 DA-B	28 DA-B
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code							
16	Authority MTZ	14 oz/a	A		100	100	95	100	0	68	100
16	Flexstar	1 pt/a	B								
16	SelectMax	9 fl oz/a	B								
16	Crop oil concentrate	1 % v/v	B								
16	AMS	2.5 lb/a	B								
17	Authority MTZ	14 oz/a	A		100	100	96	100	0	73	100
17	Anthem MAXX	3 fl oz/a	B								
17	Flexstar	1 pt/a	B								
17	Select Max	9 fl oz/a	B								
17	Crop oil concentrate	1 % v/v	B								
17	AMS	2.5 lb/a	B								
18	Authority MTZ	14 oz/a	A		100	100	61	100	0	30	100
18	Dual II Magnum	1 pt/a	A								
18	Marvel	7.25 fl oz/a	B								
18	Crop oil concentrate	1 % v/v	B								
19	Authority MTZ	14 oz/a	A		100	100	66	100	0	23	100
19	Anthem MAXX	3 fl oz/a	A								
19	Marvel	7.25 fl oz/a	B								
19	Crop oil concentrate	1 % v/v	B								
20	Valor	2 oz/a	A		97	100	81	100	0	78	80
20	Metribuzin	8 oz/a	A								
20	Warrant Ultra	3 pt/a	B								
20	Select Max	12 fl oz/a	B								
20	Surfactant	0.25 % v/v	B								
21	Metribuzin	5 oz/a	A		96	100	75	100	0	60	88
21	Dual II Magnum	1.33 pt/a	A								
21	Linex	1 pt/a	A								
21	Ultra Blazer	1.5 pt/a	B								
21	Assure II	8 fl oz/a	B								
21	Surfactant	0.25 % v/v	B								
LSD P=.05					5.6	0.5	5.9	2.0	2.4	9.3	13.7
Standard Deviation					3.9	0.3	4.1	1.4	1.7	6.6	9.7
CV					4.24	0.34	5.21	1.49	166.82	9.83	11.08





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Pest Code	AMAPO	AMBEL	ABUTH	GLXMA	ANGR	CHEAL	AMAPO
Crop Code							
Rating Date	Jul-7-2016	Jul-7-2016	Jul-7-2016	Aug-4-2016	Aug-4-2016	Aug-4-2016	Aug-4-2016
Rating Type	control	control	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B	56 DA-B	56 DA-B	56 DA-B	56 DA-B
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	AMAPO	AMBEL	ABUTH	GLXMA	ANGR	CHEAL	AMAPO
16	Authority MTZ	14 oz/a	A		100	89	100	0	79	100	100
16	Flexstar	1 pt/a	B								
16	SelectMax	9 fl oz/a	B								
16	Crop oil concentrate	1 % v/v	B								
16	AMS	2.5 lb/a	B								
17	Authority MTZ	14 oz/a	A		100	91	100	0	77	100	100
17	Anthem MAXX	3 fl oz/a	B								
17	Flexstar	1 pt/a	B								
17	Select Max	9 fl oz/a	B								
17	Crop oil concentrate	1 % v/v	B								
17	AMS	2.5 lb/a	B								
18	Authority MTZ	14 oz/a	A		100	48	100	0	25	100	100
18	Dual II Magnum	1 pt/a	A								
18	Marvel	7.25 fl oz/a	B								
18	Crop oil concentrate	1 % v/v	B								
19	Authority MTZ	14 oz/a	A		100	63	100	0	23	100	100
19	Anthem MAXX	3 fl oz/a	A								
19	Marvel	7.25 fl oz/a	B								
19	Crop oil concentrate	1 % v/v	B								
20	Valor	2 oz/a	A		100	75	92	0	81	81	100
20	Metribuzin	8 oz/a	A								
20	Warrant Ultra	3 pt/a	B								
20	Select Max	12 fl oz/a	B								
20	Surfactant	0.25 % v/v	B								
21	Metribuzin	5 oz/a	A		100	55	85	0	60	90	100
21	Dual II Magnum	1.33 pt/a	A								
21	Linex	1 pt/a	A								
21	Ultra Blazer	1.5 pt/a	B								
21	Assure II	8 fl oz/a	B								
21	Surfactant	0.25 % v/v	B								
	LSD P=.05				2.5	11.3	6.9	.	5.2	8.1	.
	Standard Deviation				1.7	8.0	4.9	0.0	3.7	5.7	0.0
	CV				1.83	11.0	5.18	0.0	5.47	6.54	0.0

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Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMBEL	ABUTH	GLXMA	GLXMA
Crop Code				
Rating Date	Aug-4-2016	Aug-4-2016	Oct-22-2016	Oct-22-2016
Rating Type	control	control	moisture	yield
Rating Unit	percent	percent	percent	bu/acre
Trt-Eval Interval	56 DA-B	56 DA-B	135 DA-B	at 13% M
Number of Decimals	0	0	1	1

Trt No.	Treatment Name	Rate	Unit	Appl Code	AMBEL	ABUTH	GLXMA moisture percent	GLXMA yield bu/acre
1	Valor	2.5 oz/a	A		76	100	16.5	67.4
1	Prowl H2O	2 pt/a	A					
1	Cobra	8 fl oz/a	B					
1	Select Max	12 fl oz/a	B					
1	Crop oil concentrate	0.5 % v/v	B					
1	AMS	2.5 lb/a	B					
1	Harmony SG	0.125 oz/a	D					
1	Surfactant	0.25 % v/v	D					
1	AMS	2.5 lb/a	D					
2	Fierce	3 oz/a	A		78	100	16.5	58.9
2	Cadet	0.5 fl oz/a	B					
2	Basagran	1.5 pt/a	B					
2	Select Max	12 fl oz/a	B					
2	Crop oil concentrate	0.5 % v/v	B					
2	Cobra	8 fl oz/a	D					
2	Crop oil concentrate	0.5 % v/v	D					
3	Fierce	3 oz/a	A		83	100	16.4	64.6
3	Metribuzin	6 oz/a	A					
3	Flexstar	1 pt/a	B					
3	Select Max	12 fl oz/a	B					
3	Crop oil concentrate	1 % v/v	B					
3	AMS	2.5 lb/a	B					
4	Fierce XLT	4 oz/a	A		98	100	16.4	70.3
4	Flexstar	1 pt/a	C					
4	Select Max	12 fl oz/a	C					
4	Crop oil concentrate	1 % v/v	C					
4	AMS	2.5 lb/a	C					
5	Trivence	6 oz/a	A		35	100	17.0	42.4
5	Metribuzin	1.4 oz/a	A					
5	Synchrony	0.375 oz/a	B					
5	Assure II	8 fl oz/a	B					
5	Surfactant	0.25 % v/v	B					
6	Trivence	8 oz/a	A		85	100	16.5	62.9
6	Prefix	2 pt/a	B					
6	Select Max	9 fl oz/a	B					
6	Surfactant	0.25 % v/v	B					

## Weed control in non-GMO soybean

Trial ID: SOY04-16

Location: Campus T-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMBEL	ABUTH		
Crop Code			GLXMA	GLXMA
Rating Date	Aug-4-2016	Aug-4-2016	Oct-22-2016	Oct-22-2016
Rating Type	control	control	moisture	yield
Rating Unit	percent	percent	percent	bu/acre
Trt-Eval Interval	56 DA-B	56 DA-B	135 DA-B	at 13% M
Number of Decimals	0	0	1	1

Trt No.	Treatment Name	Rate	Unit	Appl Code				
7	Sonic	6 oz/a	A		99	100	16.5	79.0
7	Boundary	1.5 pt/a	A					
7	Flexstar	1 pt/a	C					
7	Select Max	12 fl oz/a	C					
7	Crop oil concentrate	1 % v/v	C					
7	AMS	2.5 lb/a	C					
8	Zidua PRO	6 fl oz/a	A		96	100	16.5	72.6
8	Cobra	8 fl oz/a	C					
8	Select Max	12 fl oz/a	C					
8	Crop oil concentrate	0.5 % v/v	C					
9	BroadAxe XC	32 fl oz/a	A		5	100	17.7	39.5
9	FirstRate	0.3 oz/a	B					
9	Select Max	9 fl oz/a	B					
9	Surfactant	0.25 % v/v	B					
9	AMS	2.5 lb/a	B					
10	Boundary	2.4 pt/a	A		82	100	16.5	71.2
10	Flexstar	1 pt/a	B					
10	SelectMax	12 fl oz/a	B					
10	Crop oil concentrate	1 % v/v	B					
10	AMS	2.5 lb/a	B					
11	Prefix	2 pt/a	A		97	93	16.4	75.4
11	Metribuzin	6 oz/a	A					
11	Cobra	8 fl oz/a	C					
11	Fusilade DX	12 fl oz/a	C					
11	Crop oil concentrate	0.5 % v/v	C					
11	AMS	2.5 lb/a	C					
12	Warrant Ultra	50 fl oz/a	A		73	100	17.0	61.6
12	Metribuzin	6 oz/a	A					
12	Select Max	9 fl oz/a	B					
12	Crop oil concentrate	1 % v/v	B					
12	Cadet	0.9 fl oz/a	C					
12	Crop oil concentrate	1 % v/v	C					
13	Untreated				0	0	17.8	16.6
14	Afforia	2.5 oz/a	A		61	100	17.6	42.9
14	Metribuzin	5 oz/a	A					
14	Synchrony	0.375 oz/a	B					
14	Assure II	8 fl oz/a	B					
14	Surfactant	0.25 % v/v	B					
15	Authority MTZ	14 oz/a	A		5	100	17.7	30.4
15	SelectMax	9 fl oz/a	B					
15	Crop oil concentrate	1 % v/v	B					
15	AMS	2.5 lb/a	B					



## Weed control in non-GMO soybean

Trial ID: SOY04-16

Location: Campus T-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMBEL	ABUTH	GLXMA	GLXMA
Crop Code				
Rating Date	Aug-4-2016	Aug-4-2016	Oct-22-2016	Oct-22-2016
Rating Type	control	control	moisture	yield
Rating Unit	percent	percent	percent	bu/acre
Trt-Eval Interval	56 DA-B	56 DA-B	135 DA-B	at 13% M
Number of Decimals	0	0	1	1

Trt No.	Treatment Name	Rate	Unit	Appl Code				
16	Authority MTZ	14 oz/a	A		76	95	16.6	69.2
16	Flexstar	1 pt/a	B					
16	SelectMax	9 fl oz/a	B					
16	Crop oil concentrate	1 % v/v	B					
16	AMS	2.5 lb/a	B					
17	Authority MTZ	14 oz/a	A		82	100	16.8	69.6
17	Anthem MAXX	3 fl oz/a	B					
17	Flexstar	1 pt/a	B					
17	Select Max	9 fl oz/a	B					
17	Crop oil concentrate	1 % v/v	B					
17	AMS	2.5 lb/a	B					
18	Authority MTZ	14 oz/a	A		23	100	17.6	30.0
18	Dual II Magnum	1 pt/a	A					
18	Marvel	7.25 fl oz/a	B					
18	Crop oil concentrate	1 % v/v	B					
19	Authority MTZ	14 oz/a	A		59	100	16.7	38.0
19	Anthem MAXX	3 fl oz/a	A					
19	Marvel	7.25 fl oz/a	B					
19	Crop oil concentrate	1 % v/v	B					
20	Valor	2 oz/a	A		72	95	16.7	61.7
20	Metribuzin	8 oz/a	A					
20	Warrant Ultra	3 pt/a	B					
20	Select Max	12 fl oz/a	B					
20	Surfactant	0.25 % v/v	B					
21	Metribuzin	5 oz/a	A		55	88	16.8	47.0
21	Dual II Magnum	1.33 pt/a	A					
21	Linex	1 pt/a	A					
21	Ultra Blazer	1.5 pt/a	B					
21	Assure II	8 fl oz/a	B					
21	Surfactant	0.25 % v/v	B					
	LSD P=.05				8.5	8.0	0.70	8.46
	Standard Deviation				6.0	5.7	0.50	5.98
	CV				9.43	6.03	2.95	10.72