

Commercial weed control programs in soybean

Trial ID: SOY03-16 Study Dir.: Sprague, Powell, Stiles
 Conducted: Campus T-10 Investigator: Christy Sprague

Planting Date: May-9-2016 **Row Spacing:** 30 IN
Variety: CZ2312LL/P24T05RR **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	AMBEL	ragweed, common	Ambrosia artemisiifolia
4	ABUTH	velvetleaf	Abutilon theophrasti
5	SINAR	mustard, wild	Sinapis arvensis
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

	A	B	C	D	E
Application Timing:	PRE	EPOS	POST	LPOS	LLPOS
Date Treated:	May-9-2016	Jun-3-2016	Jun-9-2016	Jun-13-2016	Jun-27-2016
Time Treated:	2:30 PM	8:45 PM	9:50 AM	10:00 AM	8:35 AM
% Cloud Cover:	60	0	90	60	0
Air Temp., Unit:	70 F	64 F	61 F	67 F	77 F
% Relative Humidity:	24	64	46	44	
Wind Speed/Unit/Dir:	5 mph E	3 mph W	5 mph SW	4 mph SE	5 mph SW
Soil Temp, Unit:	58 F	65 F	64 F	68 F	
Leaf Moist/Dew Presence (Y/N):	5	5	5	5	5
Soil Moist:	3	4	4	5	5

Crop Stage at Each Application

	A	B	C	D	E
Crop 1 Name:	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Height:		4 "	5 "	6 "	12 "
Stage:		V1	V1/V2	V2	V7

Weed Stage at Each Application

	A	B	C	D	E
Weed 1 Name:	ANGR	ANGR	ANGR	ANGR	ANGR
Height:		3-5 " (4)	1-7 " (3)	1-6 " (3)	6-8 " (7)
Stage:		4-5L	2-5L	2-5L	5-6L
Weed 2 Name:	CHEAL	CHEAL	CHEAL	CHEAL	CHEAL
Height:		1 "	2 "	3 "	3 4
Stage:		4-6L	7L	8L	16L
Weed 3 Name:	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL
Height:			1.5 "	1-4 " (2)	2-3 " (2)
Stage:		4-6L	4-6L	4-6L	6-8L
Weed 4 Name:	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Height:			1.5 "	1.5 "	3-5 " (4)
Stage:			2-4L	4L	4L
Weed 5 Name:	SINAR	SINAR	SINAR	SINAR	SINAR
Height:		1-10 " (4)		1-1.5 " (1)	6-8 " (7)
Stage:		4-9L		3-5L	many

Weed Density

	1	2	3	4	5
Date:	Jun-27-2016	Jun-27-2016	Jun-27-2016	Jun-27-2016	Jun-27-2016
Weed Name:	ANGR	CHEAL	AMBEL	ABUTH	SINAR
Density:	45 FT2	1 FT2	3 FT2	1 FT2	1 FT2

Application Equipment

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Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	Spray Volume	Carrier	Operation Pressure
A	CUB	3.8 mph	AIXR	11003	24 "	20 "	100 "	19 GAL/AC	WATER	30 PSI
B	CUB	3.8 mph	AIXR	11003	26 "	20 "	100 "	19 GAL/AC	WATER	30 PSI
C	CUB	3.8 mph	AIXR	11003	24 "	20 "	100 "	19 GAL/AC	WATER	30 PSI
D	CUB	3.8 mph	AIXR	11003	24 "	20 "	100 "	19 GAL/AC	WATER	30 PSI
E	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	ABUTH
Crop Code	GLXMA					
Rating Date	Jun-9-2016	Jun-10-2016	Jun-10-2016	Jun-10-2016	Jun-10-2016	Jun-10-2016
Rating Type	injury	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	6 DA-B	6 DA-B	6 DA-B	6 DA-B	6 DA-B	6 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate Unit	Appl Code						
1	LibertyLink soybean			3	70	96	100	69	99
1	Fierce	3 oz/a	A						
1	Liberty	29 fl oz/a	C						
1	AMS	8.5 lb/100 gal	C						
2	LibertyLink soybean			0	88	100	100	65	85
2	Boundary	1.5 pt/a	A						
2	Liberty	29 fl oz/a	C						
2	AMS	8.5 lb/100 gal	C						
3	LibertyLink soybean			0	76	100	100	85	100
3	Authority XL	3 oz/a	A						
3	Outlook	10 fl oz/a	C						
3	Liberty	29 fl oz/a	C						
3	AMS	8.5 lb/100 gal	C						
4	LibertyLink soybean			16	97	100	100	100	100
4	Prefix	1.5 pt/a	B						
4	Liberty	29 fl oz/a	B						
4	AMS	8.5 lb/100 gal	B						
4	Liberty	29 fl oz/a	E						
4	AMS	8.5 lb/100 gal	E						
5	LibertyLink Soybean			0	0	0	0	0	0
5	Untreated								
6	Prefix	2 pt/a	B	26	100	100	100	100	100
6	Roundup PowerMax	32 fl oz/a	B						
6	AMS	17 lb/100 gal	B						
7	Warrant Ultra	50 fl oz/a	B	20	99	100	100	100	100
7	Roundup PowerMax	32 fl oz/a	B						
7	AMS	17 lb/100 gal	B						
8	Flexstar GT 3.5	3.5 pt/a	B	24	99	100	100	100	100
8	Dual Magnum	1 pt/a	B						
8	MSO	0.5 % v/v	B						
8	AMS	17 lb/100 gal	B						
8	Roundup PowerMax	32 fl oz/a	E						
8	AMS	17 lb/100 gal	E						
9	Zidua PRO	4.5 fl oz/a	A	0	80	100	100	94	100
9	Roundup PowerMax	32 fl oz/a	D						
9	AMS	17 lb/100 gal	D						

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32
 Could not calculate LSD (% mean diff) for columns 12,17,18,19,23,24,25,30 because error mean square = 0.

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Pest Code		ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code	GLXMA					
Rating Date	Jun-9-2016	Jun-10-2016	Jun-10-2016	Jun-10-2016	Jun-10-2016	Jun-10-2016
Rating Type	injury	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	6 DA-B	6 DA-B	6 DA-B	6 DA-B	6 DA-B	6 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code						
10	Zidua PRO	6 fl oz/a	A		0	84	100	100	99	100
10	Roundup PowerMax	32 fl oz/a	D							
10	AMS	17 lb/100 gal	D							
11	Canopy Blend	1.3 oz/a	A		4	69	100	100	77	100
11	Metribuzin	3 oz/a	A							
11	Abundit Extra	32 fl oz/a	D							
11	AMS	2 lb/a	D							
12	Rowel	2 oz/a	A		3	33	98	100	53	99
12	Metribuzin	4 oz/a	A							
12	Roundup PowerMax	32 fl oz/a	C							
12	AMS	17 lb/100 gal	C							
13	Fierce	3 oz/a	A		7	63	98	98	73	100
13	Roundup PowerMax	32 fl oz/a	C							
13	AMS	17 lb/100 gal	C							
14	Fierce XLT	4 oz/a	A		16	80	100	100	94	100
14	Roundup PowerMax	32 fl oz/a	D							
14	AMS	17 lb/100 gal	D							
15	Sonic	3 oz/a	A		4	70	100	100	93	100
15	Durango DMA	32 fl oz/a	D							
15	AMS (liquid)	2.5 % v/v	D							
16	Sonic	4.5 oz/a	A		3	79	100	100	86	100
16	Durango DMA	32 fl oz/a	D							
16	AMS (liquid)	2.5 % v/v	D							
17	Envive	2.5 oz/a	A		3	72	100	100	80	100
17	Abundit Extra	32 fl oz/a	D							
17	AMS	2 lb/a	D							
18	Boundary	1.5 pt/a	A		0	85	100	100	65	90
18	Flexstar GT 3.5	3.5 pt/a	D							
18	MSO	0.5 % v/v	D							
18	AMS	17 lb/100 gal	D							
19	BroadAxe XC	25 fl oz/a	A		2	91	100	100	38	100
19	Roundup PowerMax	32 fl oz/a	D							
19	AMS	17 lb/100 gal	D							
20	Prefix	2 pt/a	A		0	90	99	100	97	98
20	Roundup PowerMax	32 fl oz/a	D							
20	AMS	17 lb/100 gal	D							

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Crop Code	GLXMA					
Rating Date	Jun-9-2016	Jun-10-2016	Jun-10-2016	Jun-10-2016	Jun-10-2016	Jun-10-2016
Rating Type	injury	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	6 DA-B	6 DA-B	6 DA-B	6 DA-B	6 DA-B	6 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate Unit	Appl Code						
21	Warrant Ultra	50 fl oz/a	A	0	69	98	100	99	77
21	Roundup PowerMax	32 fl oz/a	D						
21	AMS	17 lb/100 gal	D						
22	Untreated			0	0	0	0	0	0
23	Rowel	2 oz/a	A	3	28	84	96	48	100
23	Warrant	3 pt/a	C						
23	Roundup PowerMax	32 fl oz/a	C						
23	AMS	17 lb/100 gal	C						
24	Rowel FX	4 oz/a	A	13	73	100	100	89	100
24	Warrant	3 pt/a	D						
24	Roundup PowerMax	32 fl oz/a	D						
24	AMS	17 lb/100 gal	D						
25	Valor	2.5 oz/a	A	3	33	92	100	61	100
25	Cobra	8 fl oz/a	C						
25	Roundup PowerMax	32 fl oz/a	C						
25	AMS	17 lb/100 gal	C						
26	Fierce	3 oz/a	A	7	66	97	100	76	100
26	Cobra	8 fl oz/a	C						
26	Roundup PowerMax	32 fl oz/a	C						
26	AMS	17 lb/100 gal	C						
	LSD P=.05			2.2	6.7	3.3	1.5	10.8	11.7
	Standard Deviation			1.6	4.8	2.3	1.1	7.7	8.3
	CV			26.46	6.91	2.57	1.19	10.27	9.23

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Pest Code	SINAR		ANGR	CHEAL	AMBEL	SINAR
Crop Code		GLXMA				
Rating Date	Jun-10-2016	Jun-17-2016	Jun-17-2016	Jun-17-2016	Jun-17-2016	Jun-17-2016
Rating Type	control	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	6 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	Rate	Unit	Appl Code						
1	LibertyLink soybean				100	0	94	100	100	100
1	Fierce	3 oz/a		A						
1	Liberty	29 fl oz/a		C						
1	AMS	8.5 lb/100 gal		C						
2	LibertyLink soybean				97	0	96	100	99	100
2	Boundary	1.5 pt/a		A						
2	Liberty	29 fl oz/a		C						
2	AMS	8.5 lb/100 gal		C						
3	LibertyLink soybean				99	0	95	100	100	100
3	Authority XL	3 oz/a		A						
3	Outlook	10 fl oz/a		C						
3	Liberty	29 fl oz/a		C						
3	AMS	8.5 lb/100 gal		C						
4	LibertyLink soybean				99	14	95	98	99	100
4	Prefix	1.5 pt/a		B						
4	Liberty	29 fl oz/a		B						
4	AMS	8.5 lb/100 gal		B						
4	Liberty	29 fl oz/a		E						
4	AMS	8.5 lb/100 gal		E						
5	LibertyLink Soybean				0	0	0	0	0	0
5	Untreated									
6	Prefix	2 pt/a		B	100	18	98	100	100	100
6	Roundup PowerMax	32 fl oz/a		B						
6	AMS	17 lb/100 gal		B						
7	Warrant Ultra	50 fl oz/a		B	100	16	96	100	99	100
7	Roundup PowerMax	32 fl oz/a		B						
7	AMS	17 lb/100 gal		B						
8	Flexstar GT 3.5	3.5 pt/a		B	100	19	96	100	99	100
8	Dual Magnum	1 pt/a		B						
8	MSO	0.5 % v/v		B						
8	AMS	17 lb/100 gal		B						
8	Roundup PowerMax	32 fl oz/a		E						
8	AMS	17 lb/100 gal		E						
9	Zidua PRO	4.5 fl oz/a		A	100	0	80	100	96	100
9	Roundup PowerMax	32 fl oz/a		D						
9	AMS	17 lb/100 gal		D						

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Crop Code		GLXMA				
Rating Date	Jun-10-2016	Jun-17-2016	Jun-17-2016	Jun-17-2016	Jun-17-2016	Jun-17-2016
Rating Type	control	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	6 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	Rate Unit	Appl Code						
10	Zidua PRO	6 fl oz/a	A	100	0	84	100	99	100
10	Roundup PowerMax	32 fl oz/a	D						
10	AMS	17 lb/100 gal	D						
11	Canopy Blend	1.3 oz/a	A	100	0	64	100	81	100
11	Metribuzin	3 oz/a	A						
11	Abundit Extra	32 fl oz/a	D						
11	AMS	2 lb/a	D						
12	Rowel	2 oz/a	A	91	0	96	100	86	100
12	Metribuzin	4 oz/a	A						
12	Roundup PowerMax	32 fl oz/a	C						
12	AMS	17 lb/100 gal	C						
13	Fierce	3 oz/a	A	100	3	97	100	93	100
13	Roundup PowerMax	32 fl oz/a	C						
13	AMS	17 lb/100 gal	C						
14	Fierce XLT	4 oz/a	A	100	6	83	100	95	100
14	Roundup PowerMax	32 fl oz/a	D						
14	AMS	17 lb/100 gal	D						
15	Sonic	3 oz/a	A	100	0	58	100	83	100
15	Durango DMA	32 fl oz/a	D						
15	AMS (liquid)	2.5 % v/v	D						
16	Sonic	4.5 oz/a	A	100	0	73	100	83	100
16	Durango DMA	32 fl oz/a	D						
16	AMS (liquid)	2.5 % v/v	D						
17	Envive	2.5 oz/a	A	100	0	60	100	80	100
17	Abundit Extra	32 fl oz/a	D						
17	AMS	2 lb/a	D						
18	Boundary	1.5 pt/a	A	93	19	92	100	100	100
18	Flexstar GT 3.5	3.5 pt/a	D						
18	MSO	0.5 % v/v	D						
18	AMS	17 lb/100 gal	D						
19	BroadAxe XC	25 fl oz/a	A	94	0	97	100	45	100
19	Roundup PowerMax	32 fl oz/a	D						
19	AMS	17 lb/100 gal	D						
20	Prefix	2 pt/a	A	100	0	92	100	96	100
20	Roundup PowerMax	32 fl oz/a	D						
20	AMS	17 lb/100 gal	D						

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Crop Code		GLXMA				
Rating Date	Jun-10-2016	Jun-17-2016	Jun-17-2016	Jun-17-2016	Jun-17-2016	Jun-17-2016
Rating Type	control	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	6 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	Rate Unit	Appl Code						
21	Warrant Ultra	50 fl oz/a	A	100	0	69	100	99	100
21	Roundup PowerMax	32 fl oz/a	D						
21	AMS	17 lb/100 gal	D						
22	Untreated			0	0	0	0	0	0
23	Rowel	2 oz/a	A	86	5	97	100	80	100
23	Warrant	3 pt/a	C						
23	Roundup PowerMax	32 fl oz/a	C						
23	AMS	17 lb/100 gal	C						
24	Rowel FX	4 oz/a	A	100	6	63	100	94	100
24	Warrant	3 pt/a	D						
24	Roundup PowerMax	32 fl oz/a	D						
24	AMS	17 lb/100 gal	D						
25	Valor	2.5 oz/a	A	93	25	95	100	91	100
25	Cobra	8 fl oz/a	C						
25	Roundup PowerMax	32 fl oz/a	C						
25	AMS	17 lb/100 gal	C						
26	Fierce	3 oz/a	A	99	23	96	100	94	100
26	Cobra	8 fl oz/a	C						
26	Roundup PowerMax	32 fl oz/a	C						
26	AMS	17 lb/100 gal	C						
	LSD P=.05			7.2	3.6	6.7	1.4	11.4	.
	Standard Deviation			5.1	2.6	4.8	1.0	8.1	0.0
	CV			5.63	43.47	6.02	1.07	9.59	0.0

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Pest Code		ANGR	CHEAL	AMBEL	ABUTH	SINAR
Crop Code	GLXMA					
Rating Date	Jun-22-2016	Jun-22-2016	Jun-22-2016	Jun-22-2016	Jun-22-2016	Jun-22-2016
Rating Type	injury	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	13 DA-C	13 DA-C	13 DA-C	13 DA-C	13 DA-C	13 DA-C
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code						
1	LibertyLink soybean				0	84	100	100	100	100
1	Fierce	3 oz/a		A						
1	Liberty	29 fl oz/a		C						
1	AMS	8.5 lb/100 gal		C						
2	LibertyLink soybean				0	97	100	98	100	100
2	Boundary	1.5 pt/a		A						
2	Liberty	29 fl oz/a		C						
2	AMS	8.5 lb/100 gal		C						
3	LibertyLink soybean				0	93	100	100	100	100
3	Authority XL	3 oz/a		A						
3	Outlook	10 fl oz/a		C						
3	Liberty	29 fl oz/a		C						
3	AMS	8.5 lb/100 gal		C						
4	LibertyLink soybean				6	90	96	96	100	100
4	Prefix	1.5 pt/a		B						
4	Liberty	29 fl oz/a		B						
4	AMS	8.5 lb/100 gal		B						
4	Liberty	29 fl oz/a		E						
4	AMS	8.5 lb/100 gal		E						
5	LibertyLink Soybean				0	0	0	0	0	0
5	Untreated									
6	Prefix	2 pt/a		B	8	96	98	99	100	100
6	Roundup PowerMax	32 fl oz/a		B						
6	AMS	17 lb/100 gal		B						
7	Warrant Ultra	50 fl oz/a		B	7	97	95	99	100	100
7	Roundup PowerMax	32 fl oz/a		B						
7	AMS	17 lb/100 gal		B						
8	Flexstar GT 3.5	3.5 pt/a		B	14	94	99	99	100	100
8	Dual Magnum	1 pt/a		B						
8	MSO	0.5 % v/v		B						
8	AMS	17 lb/100 gal		B						
8	Roundup PowerMax	32 fl oz/a		E						
8	AMS	17 lb/100 gal		E						
9	Zidua PRO	4.5 fl oz/a		A	0	99	100	100	100	100
9	Roundup PowerMax	32 fl oz/a		D						
9	AMS	17 lb/100 gal		D						

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Pest Code		ANGR	CHEAL	AMBEL	ABUTH	SINAR
Crop Code	GLXMA					
Rating Date	Jun-22-2016	Jun-22-2016	Jun-22-2016	Jun-22-2016	Jun-22-2016	Jun-22-2016
Rating Type	injury	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	13 DA-C	13 DA-C	13 DA-C	13 DA-C	13 DA-C	13 DA-C
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code					
10	Zidua PRO	6 fl oz/a		A	0	100	100	100	100
10	Roundup PowerMax	32 fl oz/a		D					
10	AMS	17 lb/100 gal		D					
11	Canopy Blend	1.3 oz/a		A	0	99	100	99	100
11	Metribuzin	3 oz/a		A					
11	Abundit Extra	32 fl oz/a		D					
11	AMS	2 lb/a		D					
12	Rowel	2 oz/a		A	0	100	100	99	100
12	Metribuzin	4 oz/a		A					
12	Roundup PowerMax	32 fl oz/a		C					
12	AMS	17 lb/100 gal		C					
13	Fierce	3 oz/a		A	0	99	100	100	100
13	Roundup PowerMax	32 fl oz/a		C					
13	AMS	17 lb/100 gal		C					
14	Fierce XLT	4 oz/a		A	0	100	100	100	100
14	Roundup PowerMax	32 fl oz/a		D					
14	AMS	17 lb/100 gal		D					
15	Sonic	3 oz/a		A	0	100	100	100	100
15	Durango DMA	32 fl oz/a		D					
15	AMS (liquid)	2.5 % v/v		D					
16	Sonic	4.5 oz/a		A	0	100	100	100	100
16	Durango DMA	32 fl oz/a		D					
16	AMS (liquid)	2.5 % v/v		D					
17	Envive	2.5 oz/a		A	0	99	100	97	100
17	Abundit Extra	32 fl oz/a		D					
17	AMS	2 lb/a		D					
18	Boundary	1.5 pt/a		A	11	100	100	100	100
18	Flexstar GT 3.5	3.5 pt/a		D					
18	MSO	0.5 % v/v		D					
18	AMS	17 lb/100 gal		D					
19	BroadAxe XC	25 fl oz/a		A	0	100	100	95	100
19	Roundup PowerMax	32 fl oz/a		D					
19	AMS	17 lb/100 gal		D					
20	Prefix	2 pt/a		A	0	100	100	100	100
20	Roundup PowerMax	32 fl oz/a		D					
20	AMS	17 lb/100 gal		D					

Commercial weed control programs in soybean

Trial ID: SOY03-16

Location: Campus T-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code		ANGR	CHEAL	AMBEL	ABUTH	SINAR
Crop Code	GLXMA					
Rating Date	Jun-22-2016	Jun-22-2016	Jun-22-2016	Jun-22-2016	Jun-22-2016	Jun-22-2016
Rating Type	injury	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	13 DA-C	13 DA-C	13 DA-C	13 DA-C	13 DA-C	13 DA-C
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code					
21	Warrant Ultra	50 fl oz/a		A	0	99	99	100	100
21	Roundup PowerMax	32 fl oz/a		D					
21	AMS	17 lb/100 gal		D					
22	Untreated				0	0	0	0	0
23	Rowel	2 oz/a		A	0	100	99	100	100
23	Warrant	3 pt/a		C					
23	Roundup PowerMax	32 fl oz/a		C					
23	AMS	17 lb/100 gal		C					
24	Rowel FX	4 oz/a		A	0	100	100	99	100
24	Warrant	3 pt/a		D					
24	Roundup PowerMax	32 fl oz/a		D					
24	AMS	17 lb/100 gal		D					
25	Valor	2.5 oz/a		A	10	96	100	98	100
25	Cobra	8 fl oz/a		C					
25	Roundup PowerMax	32 fl oz/a		C					
25	AMS	17 lb/100 gal		C					
26	Fierce	3 oz/a		A	11	96	100	99	100
26	Cobra	8 fl oz/a		C					
26	Roundup PowerMax	32 fl oz/a		C					
26	AMS	17 lb/100 gal		C					
	LSD P=.05				3.0	3.6	2.1	3.3	.
	Standard Deviation				2.1	2.5	1.5	2.4	0.0
	CV				82.25	2.81	1.64	2.59	0.0

Commercial weed control programs in soybean

Trial ID: SOY03-16

Location: Campus T-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ANGR	CHEAL	AMBEL	ABUTH	SINAR	GLXMA
Crop Code	GLXMA					GLXMA
Rating Date	Jul-7-2016	Jul-7-2016	Jul-7-2016	Jul-7-2016	Jul-7-2016	Aug-4-2016
Rating Type	injury	control	control	control	control	injury
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	24 DA-D	24 DA-D	24 DA-D	24 DA-D	24 DA-D	52 DA-D
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	0	76	96	98	100	100	0
1	LibertyLink soybean				0	76	96	98	100	100	0
1	Fierce	3 oz/a		A							
1	Liberty	29 fl oz/a		C							
1	AMS	8.5 lb/100 gal		C							
2	LibertyLink soybean				0	84	100	90	100	100	0
2	Boundary	1.5 pt/a		A							
2	Liberty	29 fl oz/a		C							
2	AMS	8.5 lb/100 gal		C							
3	LibertyLink soybean				0	83	100	98	100	100	0
3	Authority XL	3 oz/a		A							
3	Outlook	10 fl oz/a		C							
3	Liberty	29 fl oz/a		C							
3	AMS	8.5 lb/100 gal		C							
4	LibertyLink soybean				0	100	100	100	100	100	0
4	Prefix	1.5 pt/a		B							
4	Liberty	29 fl oz/a		B							
4	AMS	8.5 lb/100 gal		B							
4	Liberty	29 fl oz/a		E							
4	AMS	8.5 lb/100 gal		E							
5	LibertyLink Soybean				0	0	0	0	0	0	0
5	Untreated										
6	Prefix	2 pt/a		B	0	83	93	100	100	100	0
6	Roundup PowerMax	32 fl oz/a		B							
6	AMS	17 lb/100 gal		B							
7	Warrant Ultra	50 fl oz/a		B	0	84	70	98	100	100	0
7	Roundup PowerMax	32 fl oz/a		B							
7	AMS	17 lb/100 gal		B							
8	Flexstar GT 3.5	3.5 pt/a		B	0	100	100	100	100	100	0
8	Dual Magnum	1 pt/a		B							
8	MSO	0.5 % v/v		B							
8	AMS	17 lb/100 gal		B							
8	Roundup PowerMax	32 fl oz/a		E							
8	AMS	17 lb/100 gal		E							
9	Zidua PRO	4.5 fl oz/a		A	0	93	100	100	100	100	0
9	Roundup PowerMax	32 fl oz/a		D							
9	AMS	17 lb/100 gal		D							

Commercial weed control programs in soybean

Trial ID: SOY03-16

Location: Campus T-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ANGR	CHEAL	AMBEL	ABUTH	SINAR	GLXMA
Crop Code	GLXMA					GLXMA
Rating Date	Jul-7-2016	Jul-7-2016	Jul-7-2016	Jul-7-2016	Jul-7-2016	Aug-4-2016
Rating Type	injury	control	control	control	control	injury
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	24 DA-D	24 DA-D	24 DA-D	24 DA-D	24 DA-D	52 DA-D
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	ANGR	CHEAL	AMBEL	ABUTH	SINAR	GLXMA
21	Warrant Ultra	50 fl oz/a		A	0	96	96	100	100	100
21	Roundup PowerMax	32 fl oz/a		D						
21	AMS	17 lb/100 gal		D						
22	Untreated				0	0	0	0	0	0
23	Rowel	2 oz/a		A	0	93	98	98	100	100
23	Warrant	3 pt/a		C						
23	Roundup PowerMax	32 fl oz/a		C						
23	AMS	17 lb/100 gal		C						
24	Rowel FX	4 oz/a		A	0	95	100	100	100	100
24	Warrant	3 pt/a		D						
24	Roundup PowerMax	32 fl oz/a		D						
24	AMS	17 lb/100 gal		D						
25	Valor	2.5 oz/a		A	0	76	100	99	100	100
25	Cobra	8 fl oz/a		C						
25	Roundup PowerMax	32 fl oz/a		C						
25	AMS	17 lb/100 gal		C						
26	Fierce	3 oz/a		A	0	81	100	94	100	100
26	Cobra	8 fl oz/a		C						
26	Roundup PowerMax	32 fl oz/a		C						
26	AMS	17 lb/100 gal		C						
	LSD P=.05				.	12.8	8.8	5.0	.	.
	Standard Deviation				0.0	9.1	6.2	3.6	0.0	0.0
	CV				0.0	11.1	6.88	3.94	0.0	0.0

Commercial weed control programs in soybean

Trial ID: SOY03-16

Location: Campus T-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ANGR	CHEAL	AMBEL	ABUTH	SINAR	GLXMA	GLXMA
Crop Code							
Rating Date	Aug-4-2016	Aug-4-2016	Aug-4-2016	Aug-4-2016	Aug-4-2016	Oct-22-2016	Oct-22-2016
Rating Type	control	control	control	control	control	moisture	yield
Rating Unit	percent	percent	percent	percent	percent	percent	bu/acre
Trt-Eval Interval	52 DA-D	52 DA-D	52 DA-D	52 DA-D	52 DA-D	131 DA-D	at 13% M
Number of Decimals	0	0	0	0	0	1	1

Trt No.	Treatment Name	Rate Unit	Appl Code	ANGR	CHEAL	AMBEL	ABUTH	SINAR	GLXMA moisture percent	GLXMA yield bu/acre at 13% M
1	LibertyLink soybean			50	96	94	100	100	17.3	58.1
1	Fierce	3 oz/a	A							
1	Liberty	29 fl oz/a	C							
1	AMS	8.5 lb/100 gal	C							
2	LibertyLink soybean			56	100	88	80	100	17.1	62.4
2	Boundary	1.5 pt/a	A							
2	Liberty	29 fl oz/a	C							
2	AMS	8.5 lb/100 gal	C							
3	LibertyLink soybean			59	100	96	100	100	17.0	64.0
3	Authority XL	3 oz/a	A							
3	Outlook	10 fl oz/a	C							
3	Liberty	29 fl oz/a	C							
3	AMS	8.5 lb/100 gal	C							
4	LibertyLink soybean			96	98	100	100	100	16.8	71.6
4	Prefix	1.5 pt/a	B							
4	Liberty	29 fl oz/a	B							
4	AMS	8.5 lb/100 gal	B							
4	Liberty	29 fl oz/a	E							
4	AMS	8.5 lb/100 gal	E							
5	LibertyLink Soybean			0	0	0	0	0	18.3	13.5
5	Untreated									
6	Prefix	2 pt/a	B	48	56	99	94	100	16.6	63.0
6	Roundup PowerMax	32 fl oz/a	B							
6	AMS	17 lb/100 gal	B							
7	Warrant Ultra	50 fl oz/a	B	51	44	97	96	100	16.4	67.6
7	Roundup PowerMax	32 fl oz/a	B							
7	AMS	17 lb/100 gal	B							
8	Flexstar GT 3.5	3.5 pt/a	B	99	100	100	100	100	16.4	70.7
8	Dual Magnum	1 pt/a	B							
8	MSO	0.5 % v/v	B							
8	AMS	17 lb/100 gal	B							
8	Roundup PowerMax	32 fl oz/a	E							
8	AMS	17 lb/100 gal	E							
9	Zidua PRO	4.5 fl oz/a	A	84	100	100	100	100	16.6	71.3
9	Roundup PowerMax	32 fl oz/a	D							
9	AMS	17 lb/100 gal	D							

Commercial weed control programs in soybean

Trial ID: SOY03-16

Location: Campus T-10

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ANGR	CHEAL	AMBEL	ABUTH	SINAR	GLXMA	GLXMA
Crop Code							
Rating Date	Aug-4-2016	Aug-4-2016	Aug-4-2016	Aug-4-2016	Aug-4-2016	Oct-22-2016	Oct-22-2016
Rating Type	control	control	control	control	control	moisture	yield
Rating Unit	percent	percent	percent	percent	percent	percent	bu/acre
Trt-Eval Interval	52 DA-D	52 DA-D	52 DA-D	52 DA-D	52 DA-D	131 DA-D	at 13% M
Number of Decimals	0	0	0	0	0	1	1

Trt No.	Treatment Name	Rate Unit	Appl Code	ANGR	CHEAL	AMBEL	ABUTH	SINAR	GLXMA	GLXMA
10	Zidua PRO	6 fl oz/a	A	87	100	100	100	100	16.5	73.1
10	Roundup PowerMax	32 fl oz/a	D							
10	AMS	17 lb/100 gal	D							
11	Canopy Blend	1.3 oz/a	A	59	100	100	100	100	16.4	68.3
11	Metribuzin	3 oz/a	A							
11	Abundit Extra	32 fl oz/a	D							
11	AMS	2 lb/a	D							
12	Rowel	2 oz/a	A	46	97	95	100	100	16.9	57.4
12	Metribuzin	4 oz/a	A							
12	Roundup PowerMax	32 fl oz/a	C							
12	AMS	17 lb/100 gal	C							
13	Fierce	3 oz/a	A	60	100	100	100	100	16.7	67.8
13	Roundup PowerMax	32 fl oz/a	C							
13	AMS	17 lb/100 gal	C							
14	Fierce XLT	4 oz/a	A	70	100	99	100	100	16.4	70.9
14	Roundup PowerMax	32 fl oz/a	D							
14	AMS	17 lb/100 gal	D							
15	Sonic	3 oz/a	A	62	100	98	100	100	16.7	70.1
15	Durango DMA	32 fl oz/a	D							
15	AMS (liquid)	2.5 % v/v	D							
16	Sonic	4.5 oz/a	A	70	100	100	100	100	16.4	75.1
16	Durango DMA	32 fl oz/a	D							
16	AMS (liquid)	2.5 % v/v	D							
17	Envive	2.5 oz/a	A	65	100	100	100	100	16.6	70.0
17	Abundit Extra	32 fl oz/a	D							
17	AMS	2 lb/a	D							
18	Boundary	1.5 pt/a	A	70	98	100	93	100	16.3	72.3
18	Flexstar GT 3.5	3.5 pt/a	D							
18	MSO	0.5 % v/v	D							
18	AMS	17 lb/100 gal	D							
19	BroadAxe XC	25 fl oz/a	A	83	100	97	100	100	16.5	70.8
19	Roundup PowerMax	32 fl oz/a	D							
19	AMS	17 lb/100 gal	D							
20	Prefix	2 pt/a	A	86	100	100	96	100	16.6	68.3
20	Roundup PowerMax	32 fl oz/a	D							
20	AMS	17 lb/100 gal	D							

Commercial weed control programs in soybean

Trial ID: SOY03-16

Location: Campus T-10

**Investigator: Christy Sprague
Study Director: Sprague, Powell, Stiles**

Pest Code	ANGR	CHEAL	AMBEL	ABUTH	SINAR	GLXMA	GLXMA
Crop Code							
Rating Date	Aug-4-2016	Aug-4-2016	Aug-4-2016	Aug-4-2016	Aug-4-2016	Oct-22-2016	Oct-22-2016
Rating Type	control	control	control	control	control	moisture	yield
Rating Unit	percent	percent	percent	percent	percent	percent	bu/acre
Trt-Eval Interval	52 DA-D	52 DA-D	52 DA-D	52 DA-D	52 DA-D	131 DA-D	at 13% M
Number of Decimals	0	0	0	0	0	1	1

Trt No.	Treatment Name	Rate Unit	Appl Code	ANGR	CHEAL	AMBEL	ABUTH	SINAR	GLXMA moisture percent	GLXMA yield bu/acre at 13% M
21	Warrant Ultra	50 fl oz/a	A	73	99	100	100	100	16.5	74.5
21	Roundup PowerMax	32 fl oz/a	D							
21	AMS	17 lb/100 gal	D							
22	Untreated			0	0	0	0	0	17.1	13.3
23	Rowel	2 oz/a	A	73	98	99	100	100	16.6	73.8
23	Warrant	3 pt/a	C							
23	Roundup PowerMax	32 fl oz/a	C							
23	AMS	17 lb/100 gal	C							
24	Rowel FX	4 oz/a	A	76	100	100	100	100	16.4	74.3
24	Warrant	3 pt/a	D							
24	Roundup PowerMax	32 fl oz/a	D							
24	AMS	17 lb/100 gal	D							
25	Valor	2.5 oz/a	A	39	100	90	100	100	16.8	52.8
25	Cobra	8 fl oz/a	C							
25	Roundup PowerMax	32 fl oz/a	C							
25	AMS	17 lb/100 gal	C							
26	Fierce	3 oz/a	A	51	100	89	96	100	16.6	62.1
26	Cobra	8 fl oz/a	C							
26	Roundup PowerMax	32 fl oz/a	C							
26	AMS	17 lb/100 gal	C							
LSD P=.05				14.9	11.6	5.1	6.7	.	0.47	10.60
Standard Deviation				10.5	8.2	3.6	4.8	0.0	0.33	7.51
CV				17.02	9.33	4.0	5.26	0.0	1.98	11.78