

Common ragweed control with Cobra and Liberty tank-mixtures

Trial ID: SOY01-16 Study Dir.: Sprague, Powell, Stiles
 Conducted: Campus T-10 Investigator: Christy Sprague

Planting Date: May-9-2016 **Row Spacing:** 30 IN
Variety: CZ2312LL **No. of Reps:** 4
Population: 152000 seeds/A **% OM:** 2.8
Soil Type: SCL sandy clay loam **pH:** 7.7
Plot Size: 10 X 35 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel plowed; spring soil finish

Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	ANGR	mainly foxtail species	Annual grass
2	CHEAL	lambquarters, common	Chenopodium album
3	AMBEL	ragweed, common	Ambrosia artemisiifolia
4	SINAR	mustard, wild	Sinapis arvensis
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

Application Timing: A POST
Date Treated: Jun-13-2016
Time Treated: 11:30 AM
% Cloud Cover: 80
Air Temp., Unit: 71 F
% Relative Humidity: 45
Wind Speed/Unit/Dir: 4.5 mph S
Soil Temp, Unit: 68 F
Leaf Moist/Dew Presence (Y/N): 5
Soil Moist: 5

Crop Stage at Each Application

A
Crop 1 Name: GLXMA
Height: 7 "
Stage: V2

Weed Stage at Each Application

A
Weed 1 Name: ANGR
Height: 1-6 " (1)
Stage: 2-5L
Weed 2 Name: CHEAL
Height: 2 "
Stage: 7L
Weed 3 Name: AMBEL
Height: 1-3 " (1)
Stage: 4-6L
Weed 4 Name: SINAR
Height: 5-12 " (5)
Stage: Flower

Application Equipment

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

Comments: Dual II Magnum at 1 pt/A was applied broadcast PRE on 5/9/16. The common ragweed population at this location is ALS-resistant.

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Pest Code		ANGR	CHEAL	AMBEL	SINAR	
Crop Code	GLXMA					GLXMA
Rating Date	Jun-20-2016	Jun-20-2016	Jun-20-2016	Jun-20-2016	Jun-20-2016	Jun-27-2016
Rating Type	injury	control	control	control	control	injury
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	14 DA-A
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code						
		Rate Unit							
1	Liberty	29 fl oz/a	A	0	94	90	98	94	0
1	AMS	8.5 lb/100 gal	A						
2	Cobra	8 fl oz/a	A	21	94	92	100	97	10
2	Liberty	29 fl oz/a	A						
2	AMS	8.5 lb/100 gal	A						
3	Cobra	10 fl oz/a	A	23	95	93	100	97	13
3	Liberty	29 fl oz/a	A						
3	AMS	8.5 lb/100 gal	A						
4	Cobra	12.5 fl oz/a	A	24	92	90	100	98	14
4	Liberty	29 fl oz/a	A						
4	AMS	8.5 lb/100 gal	A						
5	Untreated			0	0	0	0	0	0
6	Cobra	8 fl oz/a	A	23	94	90	100	98	15
6	Liberty	29 fl oz/a	A						
6	Crop oil concentrate	1 % v/v	A						
6	AMS	8.5 lb/100 gal	A						
7	Flexstar	1 pt/a	A	21	94	92	100	98	8
7	Liberty	29 fl oz/a	A						
7	Crop oil concentrate	1 % v/v	A						
7	AMS	8.5 lb/100 gal	A						
8	Ultra Blazer	1 pt/a	A	21	94	97	99	98	11
8	Liberty	29 fl oz/a	A						
8	Surfactant	0.25 % v/v	A						
8	AMS	8.5 lb/100 gal	A						
LSD P=.05				3.4	2.7	6.9	1.1	1.3	2.4
Standard Deviation				2.3	1.9	4.7	0.7	0.9	1.6
CV				13.78	2.25	5.86	0.83	1.05	18.7

Could not calculate LSD (% mean diff) for columns 10,11,15 because error mean square = 0.

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Pest Code	ANGR	CHEAL	AMBEL	SINAR		ANGR
Crop Code					GLXMA	
Rating Date	Jun-27-2016	Jun-27-2016	Jun-27-2016	Jun-27-2016	Jul-11-2016	Jul-11-2016
Rating Type	control	control	control	control	injury	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	28 DA-A	28 DA-A
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code						
1	Liberty	29 fl oz/a		A	95	78	100	100	0	78
1	AMS	8.5 lb/100 gal		A						
2	Cobra	8 fl oz/a		A	98	79	100	100	0	78
2	Liberty	29 fl oz/a		A						
2	AMS	8.5 lb/100 gal		A						
3	Cobra	10 fl oz/a		A	94	81	99	100	0	78
3	Liberty	29 fl oz/a		A						
3	AMS	8.5 lb/100 gal		A						
4	Cobra	12.5 fl oz/a		A	95	80	99	100	0	77
4	Liberty	29 fl oz/a		A						
4	AMS	8.5 lb/100 gal		A						
5	Untreated				0	0	0	0	0	0
6	Cobra	8 fl oz/a		A	91	75	100	100	0	77
6	Liberty	29 fl oz/a		A						
6	Crop oil concentrate	1 % v/v		A						
6	AMS	8.5 lb/100 gal		A						
7	Flexstar	1 pt/a		A	96	78	98	100	0	78
7	Liberty	29 fl oz/a		A						
7	Crop oil concentrate	1 % v/v		A						
7	AMS	8.5 lb/100 gal		A						
8	Ultra Blazer	1 pt/a		A	98	81	94	100	0	82
8	Liberty	29 fl oz/a		A						
8	Surfactant	0.25 % v/v		A						
8	AMS	8.5 lb/100 gal		A						
	LSD P=.05				4.3	12.8	3.6	.	.	2.3
	Standard Deviation				2.9	8.7	2.4	0.0	0.0	1.5
	CV				3.47	12.63	2.81	0.0	0.0	2.25

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Pest Code	CHEAL	AMBEL	SINAR
Crop Code			
Rating Date	Jul-11-2016	Jul-11-2016	Jul-11-2016
Rating Type	control	control	control
Rating Unit	percent	percent	percent
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code			
1	Liberty	29 fl oz/a		A	75	98	100
1	AMS	8.5 lb/100 gal		A			
2	Cobra	8 fl oz/a		A	80	99	100
2	Liberty	29 fl oz/a		A			
2	AMS	8.5 lb/100 gal		A			
3	Cobra	10 fl oz/a		A	74	97	100
3	Liberty	29 fl oz/a		A			
3	AMS	8.5 lb/100 gal		A			
4	Cobra	12.5 fl oz/a		A	74	98	100
4	Liberty	29 fl oz/a		A			
4	AMS	8.5 lb/100 gal		A			
5	Untreated				0	0	0
6	Cobra	8 fl oz/a		A	76	98	100
6	Liberty	29 fl oz/a		A			
6	Crop oil concentrate	1 % v/v		A			
6	AMS	8.5 lb/100 gal		A			
7	Flexstar	1 pt/a		A	75	99	100
7	Liberty	29 fl oz/a		A			
7	Crop oil concentrate	1 % v/v		A			
7	AMS	8.5 lb/100 gal		A			
8	Ultra Blazer	1 pt/a		A	80	94	100
8	Liberty	29 fl oz/a		A			
8	Surfactant	0.25 % v/v		A			
8	AMS	8.5 lb/100 gal		A			
	LSD P=.05				9.2	2.7	.
	Standard Deviation				6.3	1.8	0.0
	CV				9.38	2.13	0.0