

Weed control with soil-applied Enlite and Envive plus reduced rates of Afforia

Trial ID: SOY11-16 Study Dir.: Sprague, Powell, Stiles
 Conducted: Campus T-14 Investigator: Christy Sprague

Planting Date: May-17-2016 **Row Spacing:** 30 IN
Variety: AG2433 **No. of Reps:** 4
Population: 155000 seeds/A **% OM:** 3.0
Soil Type: SCL sandy clay loam **pH:** 6.4
Plot Size: 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel plowed; spring 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

Application Timing: A
 PRE
Date Treated: May-18-2016
Time Treated: 9:15 AM
% Cloud Cover: 0
Air Temp., Unit: 55 F
% Relative Humidity: 44
Wind Speed/Unit/Dir: 5 mph NE
Soil Temp, Unit: 51 F
Leaf Moist/Dew Presence (Y/N): 5
Soil Moist: 5

Crop Stage at Each Application

A
Crop 1 Name: GLXMA
Height:
Stage:

Weed Stage at Each Application

A
Weed 1 Name: ANGR
Height:
Stage:
Weed 2 Name: CHEAL
Height:
Stage:
Weed 3 Name: AMAPO
Height:
Stage:
Weed 4 Name: AMBEL
Height:
Stage:
Weed 5 Name: ABUTH
Height:
Stage:

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	22 "	20 "	100 "	19 GAL/AC	WATER	30 PSI

Comments:

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Pest Code		CHEAL	AMAPO	ABUTH		CHEAL	AMAPO	AMBEL
Crop Code	GLXMA				GLXMA			
Rating Date	Jun-8-2016	Jun-8-2016	Jun-8-2016	Jun-8-2016	Jun-15-2016	Jun-15-2016	Jun-15-2016	Jun-15-2016
Rating Type	injury	control	control	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A
Number of Decimals	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Code								
1	Enlite	2.8 oz/a	A		5	90	100	100	0	85	100	70
1	Afforia	1.25 oz/a	A									
2	Enlite	2.8 oz/a	A		2	77	93	100	0	65	90	73
2	Afforia	0.625 oz/a	A									
3	Enlite	2.8 oz/a	A		4	86	100	100	0	83	100	88
3	Valor	1 oz/a	A									
4	Enlite	2.8 oz/a	A		3	83	100	100	0	78	100	84
5	Untreated				0	0	0	0	0	0	0	0
6	Envive	3.5 oz/a	A		5	81	100	100	0	81	100	85
6	Afforia	1.25 oz/a	A									
7	Envive	3.5 oz/a	A		3	84	100	100	0	80	100	93
7	Afforia	0.625 oz/a	A									
8	Envive	3.5 oz/a	A		5	82	100	100	0	75	100	80
8	Valor	1 oz/a	A									
9	Envive	3.5 oz/a	A		4	70	98	100	0	75	96	75
10	Afforia	1.25 oz/a	A		0	38	76	100	0	20	86	71
LSD P=.05					2.2	7.7	6.4	.	.	8.7	10.2	15.7
Standard Deviation					1.5	5.3	4.4	0.0	0.0	6.0	7.0	10.8
CV					50.14	7.68	5.1	0.0	0.0	9.31	8.06	15.09

Could not calculate LSD (% mean diff) for columns 4,5,10 because error mean square = 0.

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Pest Code	ABUTH		CHEAL	AMAPO	AMBEL	ABUTH
Crop Code		GLXMA				
Rating Date	Jun-15-2016	Jun-29-2016	Jun-29-2016	Jun-29-2016	Jun-29-2016	Jun-29-2016
Rating Type	control	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	28 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Code	ABUTH	GLXMA	CHEAL	AMAPO	AMBEL	ABUTH
1	Enlite	2.8 oz/a	A		98	0	80	100	76	90
1	Afforia	1.25 oz/a	A							
2	Enlite	2.8 oz/a	A		98	0	65	87	75	90
2	Afforia	0.625 oz/a	A							
3	Enlite	2.8 oz/a	A		95	0	76	96	89	86
3	Valor	1 oz/a	A							
4	Enlite	2.8 oz/a	A		95	0	77	100	79	88
5	Untreated				0	0	0	0	0	0
6	Envive	3.5 oz/a	A		85	0	74	100	78	90
6	Afforia	1.25 oz/a	A							
7	Envive	3.5 oz/a	A		95	0	72	100	85	93
7	Afforia	0.625 oz/a	A							
8	Envive	3.5 oz/a	A		96	0	71	100	73	89
8	Valor	1 oz/a	A							
9	Envive	3.5 oz/a	A		90	0	63	93	65	84
10	Afforia	1.25 oz/a	A		100	0	18	70	57	64
LSD P=.05					10.8	.	6.8	8.4	14.9	13.0
Standard Deviation					7.4	0.0	4.7	5.8	10.3	9.0
CV					8.72	0.0	7.85	6.87	15.18	11.63