

Evaluation of BAS 851 for burndown applications in no-till soybean

Trial ID: NTS02-21 Study Dir.: Sprague, Stiles, Powell
 Conducted: Campus, C-13 Investigator: Christy Sprague

Planting Date: 5-18-21 **Row Spacing:** 30 IN
Variety: AG24XF1 **No. of Reps:** 4
Population: 155000 seeds/A **% OM:** 2.9
Soil Type: CL clay loam **pH:** 7.2
Plot Size: 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: No-tilled into standing corn stubble
Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	STEME	common chickweed	Stellaria media
2	TAROF	dandelion	Taraxacum officinale

Crop	Code	Common Name
1	GLXMA	Soybean

Application Description

Application Timing: A EPP
Date Treated: 4-27-21
Time Treated: 7:55 AM
% Cloud Cover: 70
Air Temp., Unit: F
% Relative Humidity: 72
Wind Speed/Unit/Dir: 3 MPH SW
Soil Temp, Unit: 48 F
Leaf Moist/Dew Presence (Y/N): N
Soil Moist: 4

Crop Stage at Each Application

A
Crop 1 Name: GLXMA
Height:
Stage:

Weed Stage at Each Application

A
Weed 1 Name: STEME
Height: 5-8 " (6)
Stage: MAT
Weed 2 Name: TAROF
Height: 3-4 " (3.5)
Stage: 6L-10L (8L)

Weed Density

	1	2
Date:	4-27-21	4-27-21
Weed Name:	STEME	TAROF
Density:	10 FT2	1 FT2

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	25.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	30 PSI

Comments:

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Pest Code	STEME	TAROF	STEME	TAROF	STEME	TAROF	STEME	TAROF	STEME	TAROF	STEME	TAROF	C, GLXMA
Crop Type, Code	4-30-21	4-30-21	5-4-21	5-4-21	5-11-21	5-11-21	5-18-21	5-18-21	5-25-21	5-25-21	5-25-21	5-25-21	6-14-21
Rating Date	control	control	control	control	control	control	control	control	control	control	control	control	injury
Rating Type	%	%	%	%	%	%	%	%	%	%	%	%	%
Rating Unit	3 DA-A	3 DA-A	7 DA-A	7 DA-A	14 DA-A	14 DA-A	21 DA-A	21 DA-A	21 DA-A	28 DA-A	28 DA-A	28 DA-A	48 DA-A
Trt-Eval Interval													

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	3 DA-A	3 DA-A	7 DA-A	7 DA-A	14 DA-A	14 DA-A	21 DA-A	21 DA-A	21 DA-A	28 DA-A	28 DA-A	28 DA-A	48 DA-A
1	Untreated				0	0	0	0	0	0	0	0	0	0	0	0	0
2	Sharpen	1 fl oz/a		A	41	69	76	100	71	100	73	89	50	69			3
	2 MSO	1 % v/v		A													
	2 AMS	8.5 lb/100 gal		A													
3	BAS 85101H	0.7 fl oz/a		A	36	63	79	100	66	95	71	83	51	65			0
	3 MSO	1 % v/v		A													
	3 AMS	8.5 lb/100 gal		A													
4	BAS 85101H	1 fl oz/a		A	41	66	84	100	70	100	83	79	66	60			0
	4 MSO	1 % v/v		A													
	4 AMS	8.5 lb/100 gal		A													
5	BAS 85101H	1.4 fl oz/a		A	40	80	81	100	72	100	74	84	45	60			0
	5 MSO	1 % v/v		A													
	5 AMS	8.5 lb/100 gal		A													
6	BAS 85101H	2.8 fl oz/a		A	41	84	84	100	75	100	79	95	66	80			0
	6 MSO	1 % v/v		A													
	6 AMS	8.5 lb/100 gal		A													
7	Gramoxone SL 3.0	2 pt/a		A	79	76	77	43	75	23	89	49	78	66			0
	7 Crop oil concentrate	1 % v/v		A													
	7 AMS	8.5 lb/100 gal		A													
8	Reviton	1 fl oz/a		A	21	81	53	100	43	100	45	100	33	85			0
	8 MSO	1 % v/v		A													
	8 AMS	8.5 lb/100 gal		A													
9	Reviton	2 fl oz/a		A	11	76	53	98	45	100	60	90	40	86			3
	9 MSO	1 % v/v		A													
	9 AMS	8.5 lb/100 gal		A													
LSD P=.05					4.2	7.7	4.6	3.6	5.2	3.6	8.7	10.1	10.3	11.0			1.9
Standard Deviation					2.9	5.3	3.2	2.5	3.5	2.5	6.0	6.9	7.1	7.5			1.3
CV					8.38	7.96	4.88	3.04	6.15	3.08	9.35	9.3	14.8	11.88			229.13

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Pest Code
 Crop Type, Code C, GLXMA
 Rating Date 6-14-21
 Rating Type stand count
 Rating Unit /10' ft
 Trt-Eval Interval 48 DA-A

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	
1	Untreated				82
2	Sharpen	1 fl oz/a		A	81
2	MSO	1 % v/v		A	
2	AMS	8.5 lb/100 gal		A	
3	BAS 85101H	0.7 fl oz/a		A	84
3	MSO	1 % v/v		A	
3	AMS	8.5 lb/100 gal		A	
4	BAS 85101H	1 fl oz/a		A	84
4	MSO	1 % v/v		A	
4	AMS	8.5 lb/100 gal		A	
5	BAS 85101H	1.4 fl oz/a		A	83
5	MSO	1 % v/v		A	
5	AMS	8.5 lb/100 gal		A	
6	BAS 85101H	2.8 fl oz/a		A	83
6	MSO	1 % v/v		A	
6	AMS	8.5 lb/100 gal		A	
7	Gramoxone SL 3.0	2 pt/a		A	86
7	Crop oil concentrate	1 % v/v		A	
7	AMS	8.5 lb/100 gal		A	
8	Reviton	1 fl oz/a		A	84
8	MSO	1 % v/v		A	
8	AMS	8.5 lb/100 gal		A	
9	Reviton	2 fl oz/a		A	77
9	MSO	1 % v/v		A	
9	AMS	8.5 lb/100 gal		A	

LSD P=.05 8.7
 Standard Deviation 5.9
 CV 7.18