

University of Georgia

Annual bluegrass control with PowerFlex alone or mixed with Sencor. (spring applications).

Trial ID: Wheat16-11
Location: Macon County

Study Dir.: Stanley Culpepper
Investigator: Stanley Culpepper

Use 1.5 liters(s) per treatment mixture to spray 14.8 gal/ac

Plots: 6 by 30 feet

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No. By Rep			
									1	2	3	4
1	PowerFlex COC	13.1	WG L	2 1.25	oz/a % v/v	Spring Spring	A A	1.518 g/mx 18.75 ml/mx	101	210	304	401
2	PowerFlex COC	13.1	WG L	2 1.25	oz/a % v/v	Spring Spring	A A	1.518 g/mx 18.75 ml/mx	102	201	308	406
	Sencor	75	DF	1	oz/a	Spring	A	0.759 g/mx				
3	PowerFlex COC	13.1	WG L	2 1.25	oz/a % v/v	Spring Spring	A A	1.518 g/mx 18.75 ml/mx	103	204	303	408
	Sencor	75	DF	2	oz/a	Spring	A	1.518 g/mx				
4	PowerFlex COC	13.1	WG L	2 1.25	oz/a % v/v	Spring Spring	A A	1.518 g/mx 18.75 ml/mx	104	202	306	409
	Sencor	75	DF	3	oz/a	Spring	A	2.277 g/mx				
5	Sencor COC	75	DF L	1 1.25	oz/a % v/v	Spring Spring	A A	0.759 g/mx 18.75 ml/mx	105	203	309	403
6	Sencor COC	75	DF L	2 1.25	oz/a % v/v	Spring Spring	A A	1.518 g/mx 18.75 ml/mx	106	208	302	407
7	Sencor COC	75	DF L	3 1.25	oz/a % v/v	Spring Spring	A A	2.277 g/mx 18.75 ml/mx	107	209	305	404
8	Osprey MSO	4.5	WG L	4.76 1	oz/a % v/v	Spring Spring	A A	3.613 g/mx 15.0 ml/mx	108	205	310	405
9	Non-treated								109	207	301	402
10	Axiom	68	WG	6	oz/a	Spring	A	4.554 g/mx	110	206	307	410
	PowerFlex	13.1	WG	2	oz/a	Spring	A	1.518 g/mx				
	COC		L	1.25	% v/v	Spring	A	18.75 ml/mx				

Sort Order: Treatment

Trial Comments

OBJECTIVE: Determine annual bluegrass response to PowerFlex/Sencor applications when made timely.

Annual Bluegrass Response:

- Osprey was the most effective treatment providing nearly complete control.No other treatment provided greater than 71% control throughout the season.
- At 44 DAT, Sencor at 2 or 3 oz/A mixed with PowerFlex improved control by 18 to 29% compared to PowerFlex alone but control was still less than 70%.

University of Georgia

Annual bluegrass control with PowerFlex alone or mixed with Sencor.
(spring applications).

Trial ID: Wheat16-11
Location: Macon County

Study Dir.: Stanley Culpepper
Investigator: Stanley Culpepper

Weed Code	POAAN	POAAN	POAAN	POAAN
Rating Data Type	control	control	control	control
Rating Unit	%	%	%	%
Rating Date	3/5/2011	3/15/2011	4/8/2011	4/22/2011
Trt-Eval Interval	10 DA-A	20 DA-A	44 DA-A	58 DA-A

Trt No.	Treatment Name	Rate	Rate Unit	1	2	3	4				
1	PowerFlex	2	oz/a	26.3	ab	50.0	c	37.5	c	23.8	e
	COC	1.25	% v/v								
2	PowerFlex	2	oz/a	18.8	bc	49.0	c	36.3	c	30.0	de
	COC	1.25	% v/v								
	Sencor	1	oz/a								
3	PowerFlex	2	oz/a	33.8	ab	67.0	ab	54.5	b	45.0	c
	COC	1.25	% v/v								
	Sencor	2	oz/a								
4	PowerFlex	2	oz/a	36.3	a	70.3	a	65.8	b	56.3	b
	COC	1.25	% v/v								
	Sencor	3	oz/a								
5	Sencor	1	oz/a	5.0	c	16.3	d	38.8	c	32.5	d
	COC	1.25	% v/v								
6	Sencor	2	oz/a	8.8	c	20.0	d	37.5	c	35.0	d
	COC	1.25	% v/v								
7	Sencor	3	oz/a	30.0	ab	56.3	bc	63.8	b	50.0	bc
	COC	1.25	% v/v								
8	Osprey	4.76	oz/a	36.3	a	65.0	ab	92.5	a	93.8	a
	MSO	1	% v/v								
9	Non-treated			5.0	c	0.0	e	0.0	d	0.0	f
10	Axiom	6	oz/a	27.5	ab	56.3	bc	58.8	b	51.3	bc
	PowerFlex	2	oz/a								
	COC	1.25	% v/v								

LSD (P=.05)	16.11	12.72	11.87	7.94
Standard Deviation	11.11	8.77	8.18	5.47
CV	48.82	19.48	16.86	13.1
Bartlett's X2	12.09	5.572	10.136	3.931
P(Bartlett's X2)	0.208	0.591	0.256	0.788

Replicate F	0.020	0.008	0.209	1.588
Replicate Prob(F)	0.9960	0.9990	0.8889	0.2153
Treatment F	5.099	30.603	36.156	80.536
Treatment Prob(F)	0.0005	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

University of Georgia

Annual bluegrass control with PowerFlex alone or mixed with Sencor.
(spring applications).

Trial ID: Wheat16-11
Location: Macon County

Study Dir.: Stanley Culpepper
Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

Study Director: Stanley Culpepper	Title: Ext. Weed Science
Affiliation: University of Georgia	
Postal Code: 31795	
Investigator: Stanley Culpepper	Title: Ext. Weed Science
Affiliation: University of Georgia	
Postal Code: 31795	

TRIAL LOCATION

City: Macon County	Trial Status: completed
State/Prov.: GA	Trial Reliability: good
	Initiation Date: 2/23/2011
Country: USA	

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1. POAAN	Annual bluegrass	Poa annua

Crop 1: none no crop

SITE AND DESIGN

Plot Width, Unit: 6 FT	Plot Length, Unit: 30 FT	Reps: 4
Site Type: On Farm		
Tillage Type: No-till	Study Design: RANDOMIZED COMPLETE BLOCK	

SOIL DESCRIPTION

% Sand: 82	% OM: 2	Texture: loamy sand
% Silt: 14	pH: 6.1	
% Clay: 4		

Overall Moisture Conditions: dry

APPLICATION DESCRIPTION

A

Application Date:	2/23/2011
Time of Day:	1:00 pm
Application Method:	broadcast
Application Timing:	Fall
Applic. Placement:	overtop
Air Temp., Unit:	51 F
% Relative Humidity:	62
Wind Velocity, Unit:	3 mph
Dew Presence (Y/N):	N
Soil Temp., Unit:	48 F
Soil Moisture:	moist
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage: none

WEED STAGE AT EACH APPLICATION

A

Weed 1 Code, Stage:	POAAN
Stage Scale:	2.5"diame
Density, Unit:	35 ydsq

APPLICATION EQUIPMENT

A

Appl. Equipment:	backpack
Operating Pressure:	25
Nozzle Type:	flat fan
Nozzle Size:	11002
Nozzle Spacing, Unit:	18 in
Nozzles/Row:	2
Boom Length, Unit:	4.5 ft
Boom Height, Unit:	15 in
Ground Speed, Unit:	3 mph
Carrier:	water
Spray Volume, Unit:	15 GPA

Propellant: CO2
Tank Mix (Y/N): Y