University of Georgia

Grass response to clethodim alone or mixed with adjuvants.

Trial ID: C56-09 Study Director: Stanley Culpepper
Location: Ponder Farm Investigator: Stanley Culpepper

Use 1 liters(s) per treatment mixture to spray 14.8 gal/ac
Plots: 6 by 20 feet

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	Appl Code	Amt Product to Measure	Plot No. By Rep 1	2	3
1	SelectMax	1	L	12	oz/a	POST	A	6.334 ml/mx	101	204	301
2	SelectMax	1	L	12	oz/a	POST	A	6.334 ml/mx	102	201	304
	NIS		L	0.25	% v/v	POST	A	2.5 ml/mx			
3	Select	2	L	6	oz/a	POST	A	3.167 ml/mx	103	206	305
4	Select	2	L	6	oz/a	POST	A	3.167 ml/mx	104	203	306
	NIS		L	0.25	% v/v	POST	A	2.5 ml/mx			
5	Select	2	L	6	oz/a	POST	A	3.167 ml/mx	105	202	303
	COC		L	1	% v/v	POST	A	9.999 ml/mx			
6	Non-treated								106	205	302

Sort Order: Treatment

Trial Comments

OBJECTIVE: Determine how effective SelectMax is on grasses without an adjuvant.

LARGE CRABGRASS RESPONSE:
1. Crabgrass was 5 inches at time of application.
2. SelectMax alone or mixed with a surfactant provided at least 98% control at 22 DAT.
3. Select mixed with no adjuvant, NIS, or COC provided 30, 75, and 93% control, respectively.

CONCLUSION:

1. This study needs to be conducted with other grass species before a final recommendation decision can be made; however, this research strongly suggest UGA's grass control recommendations should be SelectMax with no additional adjuvant in vegetables.
2. In cotton, Select plus COC or SelectMax plus NIS will continue to be recommended.

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Trt No.	Treatment Name	Rate	Rate Unit	1		2		3	
	Pest Type			W Weed		W Weed		W Weed	
	Pest Code			DIGSA		DIGSA		DIGSA	
	Rating Date			6/20/2009		6/27/2009		7/3/2009	
	Rating Data Type			control		control		control	
	Rating Unit			%		%		%	
	Days After Last Applic.			9		16		22	
	Trt-Eval Interval			9 DA-A		16 DA-A		22 DA-A	
1	SelectMax	12	oz/a	90.0	a	98.3	a	97.3	a
2	SelectMax	12	oz/a	90.0	a	98.0	a	99.0	a
	NIS	0.25	% v/v						
3	Select	6	oz/a	40.0	c	36.7	d	30.0	c
4	Select	6	oz/a	66.7	b	71.7	c	75.0	b
	NIS	0.25	% v/v						
5	Select	6	oz/a	88.3	a	88.3	b	92.7	a
	COC	1	% v/v						
6	Non-treated			0.0	d	0.0	e	0.0	d
	LSD (P=.05)			10.10		6.44		10.34	
	Standard Deviation			5.55		3.54		5.69	
	CV			8.88		5.4		8.66	
	Bartlett's X2			2.884		5.826		2.698	
	P(Bartlett's X2)			0.237		0.213		0.441	
	Replicate F			2.838		1.330		0.062	
	Replicate Prob(F)			0.1056		0.3075		0.9404	
	Treatment F			128.622		374.136		157.996	
	Treatment Prob(F)			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.

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General Trial Information

Study Director: Stanley Culpepper **Title:** Ext. Weed Scinece
Affiliation: Univ. of Georgia
Postal Code: 31794
Investigator: Stanley Culpepper **Title:** Ext. Weed Science
Affiliation: Univ. of Georgia
Postal Code: 31794

Trial Location

City: TyTy **Trial Status:** completed
State/Prov.: GA **Trial Reliability:** good
Postal Code: 31795 **Initiation Date:** 6/4/2009
Country: USA
Directions:

Objectives:

Conclusions:

Crop Description

Crop 1: NONE fallow
Variety: .

Pest Description

Pest 1 Type: W **Code:** DIGSA Digitaria sanguinalis
Common Name: Large crabgrass

Site and Design

Plot Width, Unit: 6 FT **Site Type:** Ponder research farm
Plot Length, Unit: 20 FT **Tillage Type:** conventional
Replications: 3 **Study Design:** Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

% Sand: 90 **% OM:** 1.3 **Texture:** loamy sand
% Silt: 4 **pH:** 6.0
% Clay: 6

Moisture Conditions

Overall Moisture Conditions: moist, irrigated
Closest Weather Station: on site **Distance:** 250 **Unit:** yd

Application Description

	A
Application Date:	6/11/2009
Time of Day:	8:00 am
Application Method:	broadcast
Application Timing:	POST
Application Placement:	overtop
Applied By:	Culpepper
Air Temperature, Unit:	80 F
% Relative Humidity:	66
Wind Velocity, Unit:	3 mph
Dew Presence (Y/N):	Y
Soil Temperature, Unit:	81 F
Soil Moisture:	moist
% Cloud Cover:	0

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	NONE
Stage Scale Used:	.
Stage Minimum, Percent:	.

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Pest Stage At Each Application

	A	
Pest 1 Code, Disc., Scale:	DIGSA	W .
Stage Majority, Percent:	5 inch	100
Stage Minimum, Percent:	5 inch	100
Stage Maximum, Percent:	5 inch	100
Height, Unit:	5	in
Height Minimum, Maximum:	4	5
Density, Unit:	8	ydsq
Coverage, Unit:	100	%

Application Equipment

	A	
Appl. Equipment:	backpack	
Operating Pressure:	24	
Pressure Unit:	psi	
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:	15	
Volume Unit:	GAL/AC	
Propellant:	CO2	
Tank Mix (Y/N):	Y	