Ryegrass response to low rates of clethodim and Sandea to suppress growth.

Trial ID: Veg24-08 Study Dir.: Stanley Culpepper Location: Ponder farm Investigator: Stanley Culpepper

Reps: 8 Plots: 3 by 200 feet

Spray vol: 14.8 gal/ac Mix size: 3 gallons (min 1.6309)

Trt	Treatment	Form Form	Form		Rate	Grow	Appl	Amt Product	Plot N	lo. By F	₹ер					
No.	Name	Conc Unit	Type	Rate	Unit	Stg	Code	to Measure	1	2	3	4	5	6	7	8
1	Select	2	EC	3	OZ/A	RM	Α	17.98 ml/mx	101	203	302	401	503	601	702	801
	NIS		L	0.25	% V/V	RM	Α	28.39 ml/mx								
	Sandea	75	DF	0.75	OZ/A	RM	Α	4.31 g/mx								
2	Select	2	EC	6	OZ/A	RM	Α	35.97 ml/mx	102	201	303	402	501	602	703	802
	NIS		L	0.25	% V/V	RM	Α	28.39 ml/mx								
	Sandea	75	DF	0.75	OZ/A	RM	Α	4.31 g/mx								
3	Non-treated								103	202	301	403	502	603	701	803

Sort Order: Treatment

Product quantities required for listed treatments and applications in one trial:

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
67.440	ml	Select	2	EC	
70.969	ml	NIS		L	
10.775	g	Sandea	75	DF	

^{* &#}x27;Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 3 gallons (mix size basis).

Trial Comments

OBJECTIVE: Determine the rate of clethodim needed to apply over planted ryegrass to slow growth but not kill the crop.

Ryegrass Response:

- 1. Select at 3 oz/A plus NIS provided 60 to 70% control. Most ryegrass continued to live but did not grow.
- 2. Select at 6 oz/A plus NIS provided at least 80% control.

Radish Response:

1. Sandea provided complete control of wild radish.

^{*} Product amount calculations increased 25 % for overage adjustment.

^{* &#}x27;Per volume' calculations use spray volume= 14.8 gal/ac, mix size= 3 gallons.

Ryegrass response to low rates of clethodim and Sandea to suppress growth.

Trial ID: Veg24-08 Study Dir.: Stanley Culpepper Location: Ponder farm Investigator: Stanley Culpepper

Wee	ed Code			LOLPE	LOLPE	RAPRA	RAPRA
Rating Data Type		control	control	control	control		
Rati	ing Unit			percent	percent	percent	percent
Rati	ng Date			Apr-30-08	May-14-08	Apr-30-08	May-14-08
Trt-E	Eval Interval			13 DA-A	27 DA-A	13 DA-A	27 DA-A
Trt	Treatment		Rate				
No.	Name	Rate	Unit	1	2	3	4
1	Select	3	OZ/A	69 b	65 b	99 a	99 a
	NIS	0.25	% V/V				
	Sandea	0.75	OZ/A				
2	Select	6	OZ/A	80 a	81 a	99 a	99 a
	NIS	0.25	% V/V				
	Sandea	0.75	OZ/A				
3	Non-treated			0 c	0 с	0 b	0 b
LSD	(P=.05)			4.3	3.8	0.0	0.0
Standard Deviation			4.0	3.5	0.0	0.0	
CV			8.09	7.25	0.0	0.0	
Bartlett's X2			1.824	0.085	0.0	0.0	
P(Ba	artlett's X2)			0.177	0.771		

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

	Ryegrass res	ponse to low rate	es of clethodim and Sandea t	to suppress growth.
Trial ID: Veg2	24-08	Stud	ly Dir.: Stanley Culpepper	
Location: Pond	der farm	Invest	igator: Stanley Culpepper	
		GENERAL TRIAL INF		
Study Director			Title: Ext. Weed	Gai an an
_	-		iicie: Ext. Weed	Science
Affiliation:		or Georgia		
Postal Code:	31794			
Investigator:	Ctaplan Cu	lnonnox	Title: Ext. Weed	Caionao
Affiliation:			iicie: Ext. Weed	Science
		or Georgia		
Postal Code:	31/94			
		TRIAL LOCAT	TON	
City:	ГълТъл	IKIAL LOCAI		completed
State/Prov.: (good
Postal Code: 3			Initiation Date:	Apr-17-08
Country:			Planned Completion Date:	=
			N-Latitude of LL Corner °:	
			Angle y-axis to North °:	
Directions:	Corner:	01110:	Angle y-axis to North -:	
Directions.				
		COOPERATOR/LAN	DOWNER	
Cooperator:		,		
Org:			Phone No:	
Address 1:			Fax No:	
Address 2:				
City:				
State/Prov:				
Postal Code:				
_				
Conducted Unde	er GLP (Y/N):	N Con	ducted Under GEP (Y/N): N	
			ion:	
Objective:				
Conclusions:				
	(CROP AND WEED DES	CRIPTION	
Weed Code	Common Name	Scientific	c Name	
1. LOLMG Rye	grass, annual	Lolium multiflo	rum gaudini	
2. RAPRA wil	d radish	Raphanus raphan	istrum	
Crop 1: .			Variety: .	
Planting Date:		Plantin	g Method:	
Rate:		Depth:	Perennial Age:	
			w: Seed Bed: _	
Soil Temperatu	re:	Soil Moisture: _	Emergence Date	:
		SITE AND DES	IGN	
Plot Width, Un	it: 3 FT	Plot Length	, Unit: 200 FT Reps:	8
Site Type:	Ponder Resear	ch Farm		
Tillage Type:	Plastic row m	niddles Study 1	Design: RANDOMIZED COMPLETE	BLOCK
Trial Initiati	on Comments:			
Previous	s Crops	Pre	evious Pesticides	Year

MAINTENANCE

Field Prep./Maintenance:

		Maintenance	Form	Form	Form		Rate
No.	Date	Treatment Name	Conc	Unit	Type	Rate	Unit
1.							

SOIL DESCRIPTION

% Sand: 94 **% OM:** 1.3 **Texture:** sand

% Silt: 2 pH: 6.4 Soil Name: Tifton sandy loam

% Clay: 4 CEC: ____ Fert. Level: _

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Туре	Interval	Unit
1.							

Overall Moisture Conditions: fair

Closest Weather Station: _____ Distance: ____ Unit: __

APPLICATION DESCRIPTION

	A
Application Date:	Apr-17-08
Time of Day:	9:00 am
Application Method:	broadcast
Application Timing:	RM
Applic. Placement:	overtop
Air Temp., Unit:	50 F
% Relative Humidity:	47
Wind Velocity, Unit:	0 mph
Dew Presence (Y/N):	У
Water Hardness:	
Soil Temp., Unit:	45 F
Soil Moisture:	dry
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	
Stage Scale:	
Height, Unit:	

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	LOLMG POST
Stage Scale:	6-8 in
Density, Unit:	20 ydsq
Weed 2 Code, Stage:	RAPRA POST
Stage Scale:	12-20 in
Density, Unit:	1 ydsq

APPLICATION EQUIPMENT

	A
Appl. Equipment:	backpack
Operating Pressure:	24
Nozzle Type:	flat fan
Nozzle Size:	11002
Nozzle Spacing, Unit:	18 inch
Nozzles/Row:	2
Band Width, Unit:	
Boom Length, Unit:	4.5 ft
Boom Height, Unit:	15 inch
Ground Speed, Unit:	3 МРН
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	water
Spray Volume, Unit:	15 GPA
Spray pH:	
Propellant:	CO2
Tank Mix (Y/N):	Y

Trt No	Treatment Application Comment