

University of Georgia

Onion response to clethodim mixtures.

Trial ID: Veg3-07

Study Dir.: Andrew MacRae

Location: VORF

Investigator: Stanley Culpepper

Reps: 4

Plots: 6 by 20 feet

Spray vol: 14.8 gal/ac

Mix size: 1 liters (min .61734)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Grow Stg	Appl Code	Amt Product to Measure	Plot No. By Rep			
									1	2	3	4
1	Goal 2XL	2	L		2 OZ/A	POST 1	A	1.056 ml/mx	101	203	305	403
	Prowl H2O	3.8	EC		1 QT/A	POST 1	A	16.89 ml/mx				
2	Goal 2XL	2	L		2 OZ/A	POST 1	A	1.056 ml/mx	102	205	303	401
	Prowl H2O	3.8	EC		1 QT/A	POST 1	A	16.89 ml/mx				
	Select Max	1	EC		16 OZ/A	POST 2	B	8.446 ml/mx				
	NIS				0.25 % V/V	POST 2	B	2.5 ml/mx				
	Select Max	1	EC		16 OZ/A	POST 3	C	8.446 ml/mx				
	NIS				0.25 % V/V	POST 3	C	2.5 ml/mx				
3	Goal 2XL	2	L		2 OZ/A	POST 1	A	1.056 ml/mx	103	201	302	404
	Prowl H2O	3.8	EC		1 QT/A	POST 1	A	16.89 ml/mx				
	Select Max	1	EC		16 OZ/A	POST 2	B	8.446 ml/mx				
	NIS				0.25 % V/V	POST 2	B	2.5 ml/mx				
	AMS	100	DF		2.5 LB/A	POST 2	B	20.24 g/mx				
	Select Max	1	EC		16 OZ/A	POST 3	C	8.446 ml/mx				
4	Goal 2XL	2	L		2 OZ/A	POST 1	A	1.056 ml/mx	104	202	304	405
	Prowl H2O	3.8	EC		1 QT/A	POST 1	A	16.89 ml/mx				
	Select Max	1	EC		16 OZ/A	POST 2	B	8.446 ml/mx				
	AMS	100	DF		2.5 LB/A	POST 2	B	20.24 g/mx				
	Select Max	1	EC		16 OZ/A	POST 3	C	8.446 ml/mx				
	AMS	100	DF		2.5 LB/A	POST 3	C	20.24 g/mx				
5	Goal 2XL	2	L		2 OZ/A	POST 1	A	1.056 ml/mx	105	204	301	402
	Prowl H2O	3.8	EC		1 QT/A	POST 1	A	16.89 ml/mx				
	Select	2	EC		8 OZ/A	POST 2	B	4.223 ml/mx				
	COC		L		1 QT/A	POST 2	B	16.89 ml/mx				
	Select	2	EC		8 OZ/A	POST 3	C	4.223 ml/mx				
	COC		L		1 QT/A	POST 3	C	16.89 ml/mx				

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
6.598	ml	Goal 2XL	2	L	
105.563	ml	Prowl H2O	3.8	EC	
95.017	ml	Select Max	1	EC	
18.748	ml	NIS			
151.807	g	AMS	100	DF	
15.836	ml	Select	2	EC	
63.338	ml	COC		L	

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Reps: 4

Plots: 6 by 20 feet

Spray vol: 14.8 gal/ac

Mix size: 1 liters (min .61734)

Trt No.	Tr> N>	Form Conc	Form Unit	Form Type	Rate	Plot No. By Rep
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Product quantities required for listed treatments and applications in one trial:

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
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- * 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1 liters (mix size basis).
- * Product amount calculations increased 25 % for overage adjustment.
- * 'Per volume' calculations use spray volume= 14.8 gal/ac, mix size= 1 liters.

Trial Comments

OBJECTIVE: To determine onion tolerance to topical applications of clethodim.

No injury was observed from any treatment.

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Crop Code	ALLCE	ALLCE	ALLCE	ALLCE			
Rating Data Type	Injury	Injury	Injury	Injury			
Rating Unit	%	%	%	%			
Rating Date	Jan-09-07	Jan-20-07	Feb-17-07	Apr-03-07			
Crop Stage	4 leaf	5 leaf	7 leaf	11 leaf			
Assessed By	AWM	AWM	AWM	AWM			
Trt-Eval Interval	3 DA-B	14 DA-B	4 DA-C	5 DA-D			
Trt No.	Treatment Name	Rate	Unit	1	2	3	4
1	Goal 2XL	2	OZ/A	0 a	0 a	0 a	0 a
	Prowl H2O	1	QT/A				
2	Goal 2XL	2	OZ/A	0 a	0 a	0 a	0 a
	Prowl H2O	1	QT/A				
	Select Max	16	OZ/A				
	NIS	0.25	% V/V				
	Select Max	16	OZ/A				
	NIS	0.25	% V/V				
	Select Max	16	OZ/A				
	NIS	0.25	% V/V				
3	Goal 2XL	2	OZ/A	0 a	0 a	0 a	0 a
	Prowl H2O	1	QT/A				
	Select Max	16	OZ/A				
	NIS	0.25	% V/V				
	AMS	2.5	LB/A				
	Select Max	16	OZ/A				
	NIS	0.25	% V/V				
	AMS	2.5	LB/A				
	Select Max	16	OZ/A				
	NIS	0.25	% V/V				
	AMS	2.5	LB/A				
4	Goal 2XL	2	OZ/A	0 a	0 a	0 a	0 a
	Prowl H2O	1	QT/A				
	Select Max	16	OZ/A				
	AMS	2.5	LB/A				
	Select Max	16	OZ/A				
	AMS	2.5	LB/A				
	Select Max	16	OZ/A				
	AMS	2.5	LB/A				
5	Goal 2XL	2	OZ/A	0 a	0 a	0 a	0 a
	Prowl H2O	1	QT/A				
	Select	8	OZ/A				
	COC	1	QT/A				
	Select	8	OZ/A				
	COC	1	QT/A				
	Select	8	OZ/A				
	COC	1	QT/A				
LSD (P=.05)		0.0		0.0	0.0	0.0	0.0
Standard Deviation		0.0		0.0	0.0	0.0	0.0
CV		0.0		0.0	0.0	0.0	0.0
Bartlett's X2		0.0		0.0	0.0	0.0	0.0
P(Bartlett's X2)	

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

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MAINTENANCE

Field Prep./Maintenance: Irrigation was applied 2 days prior to the land being rototilled and the beds being formed. Following bed forming, onions were immediately seeded using a Monosem vacuum assisted planter. Dacthal at 4 pts/A was applied immediately following seeding. Irrigation (0.25 inches) was applied within 2 hours of planting. Irrigation was applied twice daily at a rate of 0.25 inches per application. A second application of Dacthal at 4pts/A was made 9 days later (10-20-06) followed by irrigation. Goal 2XL at 2 oz/A was applied to 1 lf onion on 6-10-06 to control the cutleaf evening primrose that escaped the Dacthal treatments.

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

SOIL DESCRIPTION

% Sand: 86 % OM: 0.47 Texture: loamy sand
 % Silt: 10 pH: 5.9 Soil Name: _____
 % Clay: 4 CEC: _____ Fert. Level: _____

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

No.	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: Irrigated Often

Closest Weather Station: _____ Distance: _____ Unit: _____

APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	Nov-29-06	Jan-06-07	Feb-13-07	Mar-29-07
Time of Day:	10:00	17:00	10:00	09:00
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	POST-2lf	POST-4lf	POST-7lf	POST-11lf
Applic. Placement:	Weeds	Crop	Crop	Crop
Air Temp., Unit:	85 F	69 F	51 F	65 F
% Relative Humidity:	59	57	68	62
Wind Velocity, Unit:	2 mph	3 mph	0 mph	2 mph
Dew Presence (Y/N):	N	N	N	N
Water Hardness:				
Soil Temp., Unit:	71 F	69 F	47 F	61 F
Soil Moisture:	Moist	Moist	Moist	Moist
% Cloud Cover:	70	50	30	40

CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	ALLCE .	ALLCE .	ALLCE .	ALLCE .
Stage Scale:	2 leaf	4 leaf	7 leaf	11 leaf
Height, Unit:	3 IN	6 IN	12 IN	18 IN

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WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code, Stage:
Stage Scale:
Density, Unit:

APPLICATION EQUIPMENT

	A	B	C	D
Appl. Equipment:	CO2 Spray	CO2 Spray	CO2 Spray	CO2 Spray
Operating Pressure:	23 psi	23 psi	23 psi	23 psi
Nozzle Type:	TeeJet	TeeJet	TeeJet	TeeJet
Nozzle Size:	11002XR	11002XR	11002XR	11002XR
Nozzle Spacing, Unit:	18 in	18 in	18 in	18 in
Nozzles/Row:	2	2	2	2
Band Width, Unit:	6 ft	6 ft	6 ft	6 ft
Boom Length, Unit:	54 in	54 in	54 in	54 in
Boom Height, Unit:	15 in	15 in	15 in	15 in
Ground Speed, Unit:	3 mph	3 mph	3 mph	3 mph
Incorporation Equip.:				
Hours to Incorp.:				
Incorp. Depth, Unit:				
Carrier:	water	water	water	water
Spray Volume, Unit:	14.8 gpa	14.8 gpa	14.8 gpa	14.8 gpa
Spray pH:				
Propellant:	CO2	CO2	CO2	CO2
Tank Mix (Y/N):	N	N	N	N

Trt No	Treatment Application Comment