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)

Spr	ay vol: 14.8 g	jal/ac		Mix s	ize: 1	liters (r	nin .6173	<u> </u>					
Trt	Treatment	Form	Form	Form		Rate	Grow	Appl	Amt Product	Plot N	lo. By l	Rep	
No	. Name	Conc	Unit	Type	Rate	Unit	Stg	Code	to Measure	1	2	3	4
1	Goal 2XL	2		L	2	OZ/A	POST 1	Α	1.056 ml/mx	101	203	305	403
	Prowl H2O			EC			POST 1		16.89 ml/mx				
2	Goal 2XL	2		L	2	OZ/A	POST 1	Α	1.056 ml/mx	102	205	303	401
	Prowl H2O	3.8		EC	1	QT/A	POST 1	Α	16.89 ml/mx				
	Select Max			EC	16		POST 2		8.446 ml/mx				
	NIS				0.25	% V/V	POST 2	В	2.5 ml/mx				
	Select Max	1		EC	16	OZ/A	POST 3	С	8.446 ml/mx				
	NIS				0.25	% V/V	POST 3	С	2.5 ml/mx				
	Select Max	1		EC			POST 4		8.446 ml/mx				
	NIS				0.25	% V/V	POST 4	D	2.5 ml/mx				
3	Goal 2XL	2		L	2	OZ/A	POST 1	Α	1.056 ml/mx	103	201	302	404
	Prowl H2O	3.8		EC	1	QT/A	POST 1	Α	16.89 ml/mx				
	Select Max	1		EC	16	OZ/A	POST 2	В	8.446 ml/mx				
	NIS						POST 2		2.5 ml/mx				
	AMS	100		DF		LB/A	POST 2		20.24 g/mx				
	Select Max	1		EC			POST 3		8.446 ml/mx				
	NIS						POST 3		2.5 ml/mx				
	AMS	100		DF			POST 3		20.24 g/mx				
	Select Max	1		EC			POST 4		8.446 ml/mx				
	NIS						POST 4		2.5 ml/mx				
	AMS	100		DF	2.5	LB/A	POST 4	D	20.24 g/mx				
4	Goal 2XL	2		L		OZ/A	POST 1		1.056 ml/mx	104	202	304	405
	Prowl H2O			EC		<u> </u>			16.89 ml/mx				
	Select Max			EC		OZ/A	POST 2		8.446 ml/mx				
	AMS	100		DF		LB/A	POST 2		20.24 g/mx				
	Select Max			EC		OZ/A			8.446 ml/mx				
	AMS	100		DF		LB/A	POST 3		20.24 g/mx				
	Select Max			EC		OZ/A	POST 4		8.446 ml/mx				
!	AMS	100		DF		LB/A	POST 4		20.24 g/mx				
5	Goal 2XL	2		L		OZ/A	POST 1		1.056 ml/mx	105	204	301	402
	Prowl H2O			EC	1	QT/A	POST 1		16.89 ml/mx				
	Select	2		EC	8	OZ/A	POST 2		4.223 ml/mx				
	COC	_		L	1	QT/A			16.89 ml/mx				
	Select	2		EC	8	OZ/A	POST 3		4.223 ml/mx				
	COC	^		L	1	QT/A	POST 3		16.89 ml/mx				
	Select	2		EC	8	OZ/A	POST 4		4.223 ml/mx				
	COC			L	1	QT/A	POST 4	ט	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	·

Reps: 4 Plots: 6 by 20 feet

Spray vol: 14.8 gal/ac Mix size: 1 liters (min .61734)

Trt	Tr> Form	Form	Form		Plot No. By Rep	
111	11/ 1 01111	1 01111	Form		riot No. by Nep	
No.	N> Conc	Unit	Type	Rate		
INO.	N> Conc	Ullit	1 4 6 6	1\ale		

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

Amount* | Unit | Treatment Name | Form Conc | Form Type | Lot Code

- * '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.

Onion response to clethodim mixtures.

Trial ID: Veg3-07 Study Dir.: Andrew MacRae
Location: VORF Investigator: Stanley Culpepper

Crop Code	Hocacion: voi						beamicy
Rating Unit Rating Date Crop Stage Assessed By Trit-Eval Interval Trit Treatment No. Name Rate Unit 1 Goal 2XL 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 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 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 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 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 W/V AMS 2.5 LB/A Select Max 16 OZ/A NIS 0.25 W/V AMS 2.5 LB/A Select Max 16 OZ/A NIS 0.25 W/V AMS 2.5 LB/A Select Max 16 OZ/A AMS 2.5 LB/A Select Max 3 Da-B 4 Da-C 5 Peb-17-07 7 leaf ADD 4 DA D 6 D A 0 D A 0	Crop Code			ALLCE	ALLCE	ALLCE	ALLCE
Rating Unit Rating Date Crop Stage Assessed By Trit-Eval Interval Trit Treatment No. Name Rate Unit 1 Goal 2XL 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 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 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 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 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 W/V AMS 2.5 LB/A Select Max 16 OZ/A NIS 0.25 W/V AMS 2.5 LB/A Select Max 16 OZ/A NIS 0.25 W/V AMS 2.5 LB/A Select Max 16 OZ/A AMS 2.5 LB/A Select Max 3 Da-B 4 Da-C 5 Peb-17-07 7 leaf ADD 4 DA D 6 D A 0 D A 0	Rating Data Typ	е		Injury	Injury	Injury	Injury
Rating Date Jan-09-07 Jan-20-07 Feb-17-07 Apr-03-07 Crop Stage Assessed By Trt-Eval Interval Trt Treatment Rate No. Name Rate Unit 1 2 3 4 1 Goal 2XL 2 OZ/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 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 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 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 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 Select Max 16 OZ/A AMS							
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Trt-Eval Interval							
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No. Name	Trt-Eval Interval			3 DA-B	14 DA-B	4 DA-C	5 DA-D
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COC 1 QT/A							
LCD (D- 05)	COC	1	QT/A				
#LODUE= US)	LSD (P=.05)			0.0	0.0	0.0	0.0
Standard Deviation 0.0 0.0 0.0 0.0		ion					
		1011					
Bartlett's X2 0.0 0.0 0.0 0.0				0.0	0.0	0.0	0.0
P(Bartlett's X2)	P(Bartlett's X2)						

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

		<u> </u>	
	Onio	on response to clethodim mixtures.	
Trial ID: Veg3-0	17	Study Dir.: Andrew MacRae	
Location: VORF	, ,	Investigator: Stanley Culpepper	
	GENERAL TR	IAL INFORMATION	
Study Director:		Title: Ext. Weed	Science
_	Univ. of Georgia		
Postal Code:	_		
_	Stanley Culpepper	Title: Ext. Weed	Science
Affiliation:	Univ. of Georgia		
Postal Code:	31794		
	mp r a	I LOGATION	
City: Vic		L LOCATION Trial Status:	completed
State/Prov.: GA	alla		excellent
Postal Code:			Oct-11-06
Country: USA		Planned Completion Date:	
_		N-Latitude of LL Corner °:	
		: Angle y-axis to North °:	
Directions:			
	COOPERA	TOR/LANDOWNER	
Cooperator:		Country:	
Org:		Phone No:	
Address 1:		Fax No:	
Address 2:			
City:			
Postal Code:			
Conducted Under	CT.P (V/N) · N	Conducted Under GEP (Y/N): N	
		escription:	
	Guideline D		
Objective: To	determine onion tole:	rance to topical applications of c	lethodim.
Conclusions: No	injury was observed :	from any treatment.	
	CROP AND WE	EED DESCRIPTION	
Weed Code	Common Name	Scientific Name	
1			
_	ONION, DRY BULB	Variety: Century	
Planting Date: (oct-11-06	Planting Method: SEEDED .25 IN Perennial Age:	
Rate: 87120 S/	A Depth: 0.	.25 IN Perennial Age:	
		chin Row: 4 IN Seed Bed: CO	
Soil Temperature	: 79 F Soil Moist	ture: Moist Emergence Date:	Oct-18-06
	OTES 1	AND DECTON	
Die width		AND DESIGN	1
Plot Width, Unit	dalia Onion Research	Length, Unit: 20 FT Reps:	4
	onventional	Study Design: RANDOMIZED COMPLETE	RI.OCK
rrrage Type: Co	ALV CITC TOTIQ I	Design. Mandomized Computite	PHOCK

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

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			rm Form nc Unit		Rate	Rate Unit	
1.								

SOIL DESCRIPTION

%	Sand:	86	% OM:	0.47	Texture: 1	oamy sand
%	silt:	10	pH:	5.9	Soil Name:	
%	Clay:	4	CEC:		Fert. Level: _	

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Туре	Interval	Unit
1.							

		conditions:	IIIIgateu	Orcen		
Closest	Weather	Station:			Distance:	Unit:

APPLICATION DESCRIPTION

		A		В	(C])
Application Date:	Nov-29-06		Jan-06-07		Feb-13-07		Mar-29-07	
Time of Day:	10:0	0	17:00		10:00		09:00	
Application Method:	SPRA	Y	SPRAY		SPRAY		SPRAY	
Application Timing:	POST	-21f	POST	-41f	POST-	-71f	POST-	-111f
Applic. Placement:	Weed	S	Crop		Crop		Crop	
Air Temp., Unit:	85	F	69	F	51	F	65	F
<pre>% Relative Humidity:</pre>	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	В	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

WEED STAGE AT EACH APPLICATION

	A	В	С	D
Weed 1 Code, Stage:				
Stage Scale:				
Density, Unit:				

APPLICATION EQUIPMENT

	A	В	С	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