Goal and Buctril combinations for direct seeded onion.

Trial ID: Onion10-06 Study Dir.: Chris Hopkins
Location: Reidsville Investigator: Stanley Culpepper

Reps: 4 Plots: 6 by 20 feet

Spray vol: 40 gal/ac Mix size: 2 liters (min 1.6685)

Trt	Treatment	Form	Form	Form		Rate	Grow	Appl	Amt Product	Plot N	o. By F	₹ер	
No.	Name	Conc	Unit	Type	Rate	Unit	Stg	Code	to Measure	1	2	3	4
1	Buctril 4EC	4	LB/GAL	EC	0.5	PT/A	4-5 leaf	Α	3.125 ml/mx	101	208	301	403
2	Buctril 4EC	4	LB/GAL	EC	1.0	PT/A	4-5 leaf	Α	6.249 ml/mx	102	205	305	402
3	Buctril 4EC	4	LB/GAL	EC	0.5	PT/A	4-5 leaf	Α	3.125 ml/mx	103	202	308	408
	Goal 2XL	2	LB/GAL	EC	0.5	PT/A	4-5 leaf	Α	3.125 ml/mx				
4	Buctril 4EC	4	LB/GAL	EC	1.0	PT/A	4-5 leaf	Α	6.249 ml/mx	104	201	302	404
	Goal 2XL	2	LB/GAL	EC	0.5	PT/A	4-5 leaf	Α	3.125 ml/mx				
5	Goal 2XL	2	LB/GAL	EC	0.5	PT/A	4-5 leaf	Α	3.125 ml/mx	105	206	304	407
6	Goal 2XL	2	LB/GAL	EC	0.75	PT/A	4-5 leaf	Α	4.687 ml/mx	106	204	303	401
7	Buctril 4EC	4	LB/GAL	EC	0.5	PT/A	4-5 leaf	Α	3.125 ml/mx	107	203	306	406
	COC				1	% V/V	4-5 leaf	Α	20.0 ml/mx				
8	Non-treated									108	207	307	405

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
27.341	ml	Buctril 4EC	4	EC	
17.576	ml	Goal 2XL	2	EC	
24.997	ml	COC			

^{* &#}x27;Per area' calculations based on spray volume= 40 gal/ac, mix size= 2 liters (mix size basis).

Trial Comments

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

^{* &#}x27;Per volume' calculations use spray volume= 40 gal/ac, mix size= 2 liters.

Goal and Buctril combinations for direct seeded onion.

Trial ID: Onion10-06 Study Dir.: Chris Hopkins
Location: Reidsville Investigator: Stanley Culpepper

HOCACION RCHABVI				ocigacoi.	beame, c
Weed Code				OEOLA	COPSS
Crop Code		ALLCE	ALLCE		
Rating Data Type		Injury	Injury	Control	Control
Rating Unit		%	%	%	%
Rating Date		Feb-09-06	Mar-04-06	Mar-04-06	Mar-04-06
Assessed By		AWM		AWM	
Trt-Eval Interval		14 DA-A	37 DA-A	37 DA-A	37 DA-A
Trt Treatment	Rate				
No. Name Rate	Unit	1	2	3	4
1 Buctril 4EC 0.5	PT/A	14 c	15 c	23 d	100 a
2 Buctril 4EC 1.0	PT/A	20 c	34 ab	58 bc	100 a
3 Buctril 4EC 0.5	PT/A	31 b	38 a	93 a	100 a
Goal 2XL 0.5	PT/A				
4 Buctril 4EC 1.0	PT/A	50 a	43 a	96 a	100 a
Goal 2XL 0.5	PT/A				
5 Goal 2XL 0.5	PT/A	15 c	15 c	75 ab	100 a
6 Goal 2XL 0.75	PT/A	14 c	18 c	92 a	100 a
7 Buctril 4EC 0.5	PT/A	18 c	23 bc	39 cd	100 a
COC	% V/V				
8 Non-treated		0 d	0 d	0 e	0 b
LSD (P=.05)		7.6	14.1	19.3	0.0
Standard Deviation		5.2	9.6	13.1	0.0
CV		25.77	41.79	22.1	0.0
Bartlett's X2		6.423	9.609	13.876	0.0
P(Bartlett's X2)		0.378	0.142	0.031*	

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

Feb-21-07 (Onion10-06) Site Description Page 3 of 5

University of Georgia

Goal and Buctril combinations for direct seeded onion.							
Trial ID: Onion		Study Dir.: Chris Hopkins					
Location: Reids	ville Inv	Investigator: Stanley Culpepper					
	GENERAL TRIAL	INFORMATION					
Study Director: Affiliation: Postal Code:	Chris Hopkins University of Georgia	Title: Pub Serv Rep - CES					
Investigator: Affiliation: Postal Code:	Stanley Culpepper University of Georgia 31794	Title: Ext. Weed Science					
	TRIAL LO	CATION					
_		Trial Status: completed					
State/Prov.: GA		Trial Reliability: good					
Postal Code:		Initiation Date: Jan-26-06					
Country: USA	I Cornor 9.	Planned Completion Date: N-Latitude of LL Corner °:					
		Angle y-axis to North °:					
Org:		Country: Phone No: Fax No:					
Guidelines:	Guideline Descr	Conducted Under GEP (Y/N): N ription: onion tolerance and weed efficacy of Goal and Buctril					
2) Buctril treat 3) Goal 2XL alor 4) Goal 2XL plus Onion:	ts provided 100% control tments provided 22 to 58% ne provided 75 to 92% con s Buctril provided 93 to	of swinecress 5 weeks after treatment (WAT). s control of cutleaf evening primrose, 5 WAT. strol of cutleaf evening primrose, 5 WAT. 96% control of cutleaf evening primrose, 5 WAT. COC caused 14 to 20% injury to onions 2 WAT and 15 to 34%					
injury 5 WAT. 2) Goal 2XL alon	ne caused 14 to 15% injur	ry to onions 2 WAT and 15 to 18% injury 5 WAT. 1% injury to onions 2 WAT and 38 to 42% injury 5 WAT.					
cutleaf evening 2) Increasing th	primrose. ne rate of Goal 2XL from	greatly increased injury to onions while increasing control of 80z/A to 12 oz/A did not increase onion injury while providing evening primrose that the addition of Buctril provided.					

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.			

Plan Rate Row	1: ALLCE ting Date: : Spacing: 10 Temperatur	Oct-17-0	05 De n Spac	epth:	Vithin Ro	ow: 3	od: seed Pereni inch	ded nial A See	d Bed: 6	foot	 bed	_
Site	Width, Uni Type: R	Research	Station	Plo		n, Unit			Reps:		ζ	
Tria	l Initiatio		nts:		Pr	evious	Pestici	ldes			Year	
1. Fiel	d Prep./Mai	ntenance	e:	ΜZ	AINTENANC	CE						
			Mainter			Form		Form			Rate	
No. 1.	Date		Treatmer	it Nar	ne	Conc	Unit	Type	Rate		Unit	
% Si	nd: lt: ay:	pH:		: S	DESCRIF	Lo e: vel:						
	-	Element		ONAL	MEASUREI	ntity		: .				
		22 Cangill		f∩T S™	JRE CONDI							
	Date	Time	Amount		JRE CONDI	CITONS	Type			Ir	nterval	Unit
1.							-22					
	all Moistur est Weather		n:					Dista	nce:	Uı	nit:	

	A
Application Date:	Jan-26-06
Time of Day:	4:30 pm
Application Method:	Broadcast
Application Timing:	5 leaf
Applic. Placement:	4 inches
Air Temp., Unit:	59 F
% Relative Humidity:	26
Wind Velocity, Unit:	2 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	64 F
Soil Moisture:	Dry
% Cloud Cover:	5

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	ALLCE
Stage Scale:	5 leaf
Height, Unit:	

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	
Stage Scale:	
Density, Unit:	

APPLICATION EQUIPMENT

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

Trt No	Treatment Application Comment