

University of Georgia

Goal and Bucril combinations for direct seeded onion.

Trial ID: Onion10-06
 Location: Reidsville

Study Dir.: Chris Hopkins
 Investigator: Stanley Culpepper

Reps: 4 Plots: 6 by 20 feet
 Spray vol: 40 gal/ac Mix size: 2 liters (min 1.6685)

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

- * 'Per area' calculations based on spray volume= 40 gal/ac, mix size= 2 liters (mix size basis).
- * Product amount calculations increased 25 % for overage adjustment.
- * 'Per volume' calculations use spray volume= 40 gal/ac, mix size= 2 liters.

Trial Comments

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Weed Code	ALLCE	ALLCE	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	AWM	AWM			
Trt-Eval Interval	14 DA-A	37 DA-A	37 DA-A	37 DA-A			
Trt No.	Treatment Name	Rate	Unit	1	2	3	4
1	Bucril 4EC	0.5	PT/A	14 c	15 c	23 d	100 a
2	Bucril 4EC	1.0	PT/A	20 c	34 ab	58 bc	100 a
3	Bucril 4EC Goal 2XL	0.5 0.5	PT/A PT/A	31 b	38 a	93 a	100 a
4	Bucril 4EC Goal 2XL	1.0 0.5	PT/A PT/A	50 a	43 a	96 a	100 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	Bucril 4EC COC	0.5 1	PT/A % V/V	18 c	23 bc	39 cd	100 a
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)

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Crop 1: ALLCE ONION, DRY BULB **Variety:** Century
Planting Date: Oct-17-05 **Planting Method:** seeded
Rate: _____ **Depth:** 0.25 in **Perennial Age:** _____
Row Spacing: 10 inch **Spacing Within Row:** 3 inch **Seed Bed:** 6 foot bed
Soil Temperature: _____ **Soil Moisture:** Moist **Emergence Date:** _____

SITE AND DESIGN

Plot Width, Unit: 6 FT **Plot Length, Unit:** 20 FT **Reps:** 4
Site Type: Research Station
Tillage Type: Conventional **Study Design:** RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

MAINTENANCE

Field Prep./Maintenance:

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

SOIL DESCRIPTION

% Sand: _____ **% OM:** _____ **Texture:** Loamy sand
% Silt: _____ **pH:** _____ **Soil Name:** _____
% Clay: _____ **CEC:** _____ **Fert. Level:** _____

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: _____

Closest Weather Station: _____ **Distance:** _____ **Unit:** _____

APPLICATION DESCRIPTION

	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

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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

	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