



# University of Georgia

Transplant onion response to Dual Magnum, Outlook, Chateau, Goal, and Prowl.

Trial ID: Onion5-08

Study Dir.: Jona Edwards

Location: Vidalia Onion Farm

Investigator: Stanley Culpepper

## Trial Comments

OBJECTIVE: Determine transplant onion response to Dual, Outlook, and Chateau.

### Transplant Onion Response:

1. Injury from Dual, Outlook, and Goal was minor and insignificant.
2. Injury from Chateau was severe. Mixing Prowl H2O with Chateau did not increase injury; however, mixing Dual Magnum with Chateau nearly doubled the degree of injury.
3. Plant stand was reduced by all treatments including Chateau at 1.0 oz/A or greater. No other treatment impacted plant stand.

### Weed Response:

1. Swinecress control was excellent with all programs except Dual Mag at 1 pt/A and Prowl H2O at 2 pt/A.
2. Radish control was greater than 90% with all systems except Dual Magnum or Outlook at 16 oz/A.

### GENERAL COMMENTS:

1. 5/Dec/2007: planted
2. 6/Dec/2007: watered
3. 7/Dec/2007: sprayed

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Weed Code		ALLCE	ALLCE	COPSS	COPSS	RAPRA	RAPRA	ALLCE	ALLCE	
Crop Code		injury	injury	control	control	control	control	Stand count	Stand count	
Rating Data Type								Left	Right	
Rating Unit										
Rating Date		Jan-03-08	Feb-05-08	Feb-05-08	Mar-28-08	Feb-05-08	Mar-28-08	Feb-05-08	Feb-05-08	
Trt-Eval Interval		27 DA-A	60 DA-A	60 DA-A	112 DA-A	60 DA-A	112 DA-A	60 DA-A	60 DA-A	
Trt No.	Treatment Name	Rate								
		Rate Unit	1	2	3	4	5	6	7	
									8	
1	Dual Magnum	16 OZ/A	2 c	4 ef	90 c	83 b	90 b	87 bc	11 ab	10 ab
2	Dual Magnum	32 OZ/A	3 c	9 ef	92 bc	95 a	96 a	96 a	10 ab	10 abc
3	Dual Magnum	16 OZ/A	0 c	2 ef	99 a	99 a	99 a	99 a	10 ab	10 ab
	Goal Tender	16 OZ/A								
4	Dual Magnum	32 OZ/A	0 c	5 ef	99 a	99 a	99 a	99 a	11 ab	11 a
	Goal Tender	16 OZ/A								
5	Outlook	16 OZ/A	0 c	3 ef	94 abc	98 a	83 c	85 c	11 ab	10 ab
6	Outlook	32 OZ/A	3 c	8 ef	98 a	98 a	96 a	95 ab	10 ab	11 a
7	Non-treated		0 c	0 f	0 d	0 d	0 d	0 d	11 a	10 ab
8	Outlook	16 OZ/A	0 c	3 ef	99 a	99 a	99 a	96 a	10 ab	10 abc
	Goal Tender	16 OZ/A								
9	Outlook	32 OZ/A	3 c	8 ef	99 a	99 a	99 a	99 a	10 ab	9 abc
	Goal Tender	16 OZ/A								
10	Prowl H20	32 OZ/A	2 c	3 ef	92 bc	72 c	95 ab	94 ab	10 ab	11 a
11	Goal Tender	16 OZ/A	3 c	5 ef	99 a	99 a	99 a	99 a	10 ab	11 a
12	Prowl H20	32 OZ/A	2 c	0 f	99 a	99 a	99 a	99 a	10 ab	10 abc
	Goal Tender	16 OZ/A								
13	Chateau	0.5 OZ/A	18 c	22 de	99 a	95 a	99 a	96 a	9 ab	10 abc
14	Chateau	1.0 OZ/A	40 b	47 bc	97 ab	95 a	99 a	98 a	8 b	7 bc
15	Chateau	1.5 OZ/A	57 ab	63 ab	99 a	99 a	99 a	99 a	3 d	3 d
16	Non-treated		0 c	0 f	0 d	0 d	0 d	0 d	11 ab	9 abc
17	Chateau	1.0 OZ/A	41 b	31 cd	99 a	98 a	99 a	95 ab	6 c	7 c
	Prowl H20	32 OZ/A								
18	Chateau	1.0 OZ/A	73 a	73 a	99 a	98 a	99 a	99 a	3 d	4 d
	Dual Magnum	16 OZ/A								
LSD (P=.05)			17.3	17.1	5.3	10.2	5.6	8.1	2.2	2.7
Standard Deviation			10.4	10.3	3.2	6.1	3.4	4.8	1.3	1.6
CV			75.73	64.57	3.71	7.21	3.93	5.67	14.69	18.34
Bartlett's X2			24.57	41.305	6.646	22.162	1.515	8.716	21.042	26.749
P(Bartlett's X2)			0.011*	0.001*	0.248	0.002*	0.824	0.367	0.224	0.044*

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



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## MAINTENANCE

Field Prep./Maintenance:

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

### SOIL DESCRIPTION

% Sand: 86	% OM: 5.8	Texture: loamy sand
% Silt: 10	pH: 0.47	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: \_\_\_\_\_

Closest Weather Station: \_\_\_\_\_ Distance: \_\_\_\_\_ Unit: \_\_\_\_\_

### APPLICATION DESCRIPTION

	A
Application Date:	Dec-07-07
Time of Day:	3:30 pm
Application Method:	broadcast
Application Timing:	transplan
Applic. Placement:	overtop
Air Temp., Unit:	60 f
% Relative Humidity:	73
Wind Velocity, Unit:	1 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	59 f
Soil Moisture:	moist
% Cloud Cover:	0

### CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	ALLCE Transplan
Stage Scale:	3-4 leaf
Height, Unit:	4 inch

### WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	COPSS PRE
Stage Scale:	not up
Density, Unit:	5 ydsq
Weed 2 Code, Stage:	RAPRA PRE
Stage Scale:	not up
Density, Unit:	5 ydsq

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## 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 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):	Y

Trt No	Treatment Application Comment