

University of Georgia

Cabbage tolerance to Chateau applied POST.

Trial ID: Veg24-07
 Location: LTF

Study Dir.: Stanley Culpepper
 Investigator: Stanley Culpepper

Reps: 3 Plots: 6 by 20 feet
 Spray vol: 14.8 gal/ac Mix size: 1 liters (min .46301)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code	Amt to Measure	Product Measure	Plot No. By Rep		
											1	2	3
1	No Chateau										101	205	309
2	Chateau	51		WG	1	OZ/A	DATran	A	0.506 g/mx		102	206	303
3	Chateau	51		WG	2	OZ/A	DATran	A	1.012 g/mx		103	201	304
4	Chateau	51		WG	4	OZ/A	DATran	A	2.024 g/mx		104	207	310
5	Chateau	51		WG	1	OZ/A	3DATran	B	0.506 g/mx		105	209	305
6	Chateau	51		WG	2	OZ/A	3DATran	B	1.012 g/mx		106	208	302
7	Chateau	51		WG	4	OZ/A	3DATran	B	2.024 g/mx		107	204	311
8	Chateau	51		WG	1	OZ/A	7DATran	C	0.506 g/mx		108	210	306
9	Chateau	51		WG	2	OZ/A	7DATran	C	1.012 g/mx		109	202	307
10	Chateau	51		WG	4	OZ/A	7DATran	C	2.024 g/mx		110	211	301
11	Dual Magnum	7.62		L	12	OZ/A	7DATran	C	6.334 ml/mx		111	203	308

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
13.283	g	Chateau	51	WG	
7.918	ml	Dual Magnum	7.62	L	

* '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.

Trial Comments

OBJECTIVE: Determine transplant cabbage response to Chateau applied POST over-the-top.

Visual Injury:

1. Cabbage was tolerant to Chateau applied POST on the day of transplant and at 3 d after transplant.
2. Significant injury was noted with Chateau applied 7 d after transplant.
3. Higher rates of Chateau caused greater injury only when applied at 7 d after transplant.
4. Dual Magnum did not injure the crop.

Plant Heights:

1. No treatment statistically impact plant heights at 6 weeks after transplanting.

Yield:

1. Five cabbage heads per plot were harvested with no difference among treatment.

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Weed Code	BRSOL	BRSOL	BRSOL	BRSOL	plant 1	plant 2	plant 3	plant 4		
Crop Code	BRSOL	BRSOL	BRSOL	BRSOL	BRSOL	BRSOL	BRSOL	BRSOL		
Rating Data Type	injury	injury	injury	injury	ht	ht	ht	ht		
Rating Unit	%	%	%	%	cm	cm	cm	cm		
Rating Date	Mar-26-07	Apr-05-07	Apr-24-07	May-14-07	Apr-24-07	Apr-24-07	Apr-24-07	Apr-24-07		
Assessed By	SC	SC	SC	SC						
ARM Action Codes										
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit	Unit	Unit	Unit	Unit	Unit	Unit		
		1	2	3	4	5	6	7		
		8								
1	No Chateau	0 a	0 d	0 b	0 a	51 ab	51 ab	52 a	51 a	
2	Chateau	1 OZ/A	0 a	3 cd	0 b	0 a	43 bc	48 ab	50 a	46 a
3	Chateau	2 OZ/A	0 a	4 cd	0 b	0 a	52 ab	51 ab	53 a	48 a
4	Chateau	4 OZ/A	0 a	5 c	0 b	0 a	50 abc	50 ab	36 b	47 a
5	Chateau	1 OZ/A	0 a	4 cd	0 b	0 a	54 ab	53 ab	51 a	52 a
6	Chateau	2 OZ/A	0 a	3 cd	0 b	0 a	38 c	49 ab	45 ab	48 a
7	Chateau	4 OZ/A	0 a	4 cd	0 b	0 a	57 a	53 ab	52 a	53 a
8	Chateau	1 OZ/A	0 a	13 b	7 a	0 a	44 bc	47 b	46 ab	46 a
9	Chateau	2 OZ/A	0 a	16 b	7 a	0 a	50 abc	48 ab	48 ab	42 a
10	Chateau	4 OZ/A	0 a	22 a	7 a	0 a	45 bc	59 a	48 ab	51 a
11	Dual Magnum	12 OZ/A	0 a	2 cd	0 b	0 a	53 ab	52 ab	51 a	54 a
LSD (P=.05)		0.0	4.0	1.6	0.0	10.7	9.9	11.8	14.6	
Standard Deviation		0.0	2.4	0.9	0.0	6.3	5.8	6.9	8.6	
CV		0.0	34.48	48.83	0.0	12.95	11.35	14.24	17.52	
Bartlett's X2		0.0	11.976	1.006	0.0	6.278	6.515	11.061	7.848	
P(Bartlett's X2)		.	0.215	0.605	.	0.791	0.77	0.353	0.644	

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

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Weed Code	plant 5	plant 6	plant 7	plant 8	avg ht	hav 1	harv 1			
Crop Code	BRSOL	BRSOL	BRSOL	BRSOL	BRSOL	BRSOL	BRSOL			
Rating Data Type	ht	ht	ht	ht	ht	#	wt/lbs			
Rating Unit	cm	cm	cm	cm	cm					
Rating Date	Apr-24-07	Apr-24-07	Apr-24-07	Apr-24-07	Apr-24-07	May-22-07	May-22-07			
Assessed By										
ARM Action Codes					T1					
Trt No.	Treatment Name	Rate	Unit	9	10	11	12	13	14	15
1	No Chateau			55 a	50 a	47 a	45 a	50 a	5 a	15 a
2	Chateau	1	OZ/A	44 a	44 a	41 a	43 a	45 a	5 a	10 a
3	Chateau	2	OZ/A	50 a	47 a	40 a	49 a	49 a	5 a	11 a
4	Chateau	4	OZ/A	53 a	47 a	48 a	52 a	48 a	5 a	14 a
5	Chateau	1	OZ/A	54 a	52 a	54 a	54 a	53 a	5 a	16 a
6	Chateau	2	OZ/A	49 a	49 a	44 a	50 a	47 a	5 a	13 a
7	Chateau	4	OZ/A	49 a	52 a	53 a	52 a	53 a	5 a	14 a
8	Chateau	1	OZ/A	49 a	46 a	52 a	49 a	47 a	5 a	12 a
9	Chateau	2	OZ/A	51 a	52 a	40 a	50 a	48 a	5 a	13 a
10	Chateau	4	OZ/A	52 a	50 a	53 a	51 a	51 a	5 a	15 a
11	Dual Magnum	12	OZ/A	51 a	57 a	48 a	54 a	52 a	5 a	16 a
LSD (P=.05)				11.0	12.1	14.7	10.8	7.0	0.0	8.6
Standard Deviation				6.4	7.1	8.6	6.4	4.1	0.0	5.0
CV				12.71	14.31	18.22	12.78	8.39	0.0	37.22
Bartlett's X2				11.732	7.293	7.466	13.696	14.273	0.0	8.672
P(Bartlett's X2)				0.303	0.697	0.681	0.187	0.161	.	0.563

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

Column 13: T1 = @AVG([5].[12])

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

SOIL DESCRIPTION

% Sand: 90 % OM: 6.4 Texture: sand
 % Silt: 4 pH: 1.3 Soil Name: tifton sandy loam
 % Clay: 6 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	B	C
Application Date:	Mar-15-07	Mar-19-07	Mar-26-07
Time of Day:	3 pm	2 pm	8 am
Application Method:	broadcast	broadcast	broadcast
Application Timing:	DA tran	3DA trans	7DA trans
Applic. Placement:	overtop	overtop	overtop
Air Temp., Unit:	76 f	55 f	64 f
% Relative Humidity:	48	41	56
Wind Velocity, Unit:	3 MPH	0 MPH	1 MPH
Dew Presence (Y/N):	N	N	N
Water Hardness:			
Soil Temp., Unit:	74 f	58 f	60 f
Soil Moisture:	moist	moist	moist
% Cloud Cover:	100	0	0

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	BRSOL	BRSOL	BRSOL
Stage Scale:	4 lf	5 lf	5/8 leaf
Height, Unit:	4 in	4 in	5 inch

WEED STAGE AT EACH APPLICATION

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

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APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	backpack	backpack	backpack
Operating Pressure:	24	24	24
Nozzle Type:	flat fan	flat fan	flat fan
Nozzle Size:	11002	11002	11002
Nozzle Spacing, Unit:	18 in	18 in	18 in
Nozzles/Row:	2	2	2
Band Width, Unit:			
Boom Length, Unit:	4.5 ft	4.5 ft	4.5 ft
Boom Height, Unit:	15 in	15 in	15 in
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Incorporation Equip.:			
Hours to Incorp.:			
Incorp. Depth, Unit:			
Carrier:	water	water	water
Spray Volume, Unit:	14.8 GPA	14.8 GPA	14.8 GPA
Spray pH:			
Propellant:	CO2	CO2	CO2
Tank Mix (Y/N):	Y	Y	Y

Trt No	Treatment Application Comment