

University of Georgia

Controlling the previous bell pepper crop while preparing for a 2nd crop on mulch.

Trial ID: Veg31-14

Study Dir.: A. Stanley Culpepper

Location: UGA Ponder Farm

Investigator: Stanley Culpepper

Use 1 liters(s) per treatment mixture to spray 14.8 gal/ac
Plots: 6 by 30 feet

Trt No.	Treatment Name	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No. By Rep				
						1	2	3	4	5
1	Dominus 4 GPA		preplant	A		101	202	304	402	501
2	Dominus 7 GPA		preplant	A		102	205	303	401	502
3	Dominus 10 GPA		preplant	A		103	201	302	403	503
4	Vapam 60 GPA		preplant	A		104	203	305	404	504
5	Non-treated					105	204	301	405	505

Sort Order: Treatment

Trial Comments

OBJECTIVE: Compare Dominus to Vapam for the control of a previous pepper crop while preparing for a second crop on mulch.

VISUAL CONTROL:

1. At 4 DAT, Vapam controlled pepper at least 17% more than any Dominus treatment.
2. At 12 DAT, Vapam was 20, 33, 57% more effective controlling bell pepper than Dominus at 10, 7, or 4 GPA, respectively.
3. By 31 DAT, Vapam was the only system providing complete control. At this time, Dominus at 4, 7, and 10 GPA controlled bell pepper 33, 46, and 74%, respectively.
3. Little changes occurred between 31 and 46 DAT.

GENERAL COMMENTS:

1. Treatments included 5 beds (32") bed top that were 60 feet long. Thus the treated area was 13.33 feet wide and 60 feet long equalling 800 square feet.
2. Prior to injection beds were watered an hr once a day for a week ensuring good moisture.
3. For the 4 gal/A rate of Dominus: 278 mls of Dominus was injected from 2:50 through 4:25 pm (95 min) followed by a 60 minute flush out.
4. From 5:27 through 6:59 (93 min) 487 mls of Dominus was injected as the 7 GPA rate followed by 51 minutes of flush out.
5. From 7:53 through 9:37 (105 min) 695 mls of Dominus was injected as the 10 GPA rate followed by 50 minutes of flush out.
6. At 10:35 pm through 11:26 (61 min) Vapam at 4170 mls was injected as the 60 GPA rate followed by 59 minutes of flush out.

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Crop Code	CPSAN	CPSAN	CPSAN	CPSAN
Rating Data Type	control	control	control	control
Rating Unit	%	%	%	%
Rating Date	7/15/2014	7/23/2014	8/11/2014	8/26/2014
Trt-Eval Interval	4 DA-A	12 DA-A	31 DA-A	46 DA-A

Trt No.	Treatment Name	Rate Unit	1	2	3	4
1	Dominus 4 GPA		12.0	c 33.0	d 33.0	d 26.0
2	Dominus 7 GPA		16.0	c 57.0	c 46.0	c 42.0
3	Dominus 10 GPA		25.2	b 70.0	b 74.0	b 70.0
4	Vapam 60 GPA		42.0	a 90.2	a 100.0	a 100.0
5	Non-treated		0.0	d 0.0	e 0.0	e 0.0

LSD (P=.05)	4.77	5.77	8.51	6.65
Standard Deviation	3.56	4.30	6.34	4.96
CV	18.69	8.6	12.54	10.43
Bartlett's X2	3.133	5.765	1.926	2.689
P(Bartlett's X2)	0.372	0.124	0.382	0.261

Replicate F	1.543	6.030	1.714	2.599
Replicate Prob(F)	0.2374	0.0037	0.1960	0.0756
Treatment F	97.358	327.709	182.584	305.137
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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GENERAL TRIAL INFORMATION

Study Director: Stanley Culpepper

Title: Ext. Weed Science

Affiliation: Univ. of Georgia

Postal Code: 31794

Investigator: Stanley Culpepper

Title: Ext. Weed Science

Affiliation: Univ. of Georgia

Postal Code: 31794

TRIAL LOCATION

City: TyTy

Trial Status: completed

State/Prov.: GA

Trial Reliability: excellent

Postal Code: 31795

Initiation Date: 7/11/2014

Country: USA

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Code Common Name Scientific Name

1. CPSAN bell pepper

SITE AND DESIGN

Plot Width, Unit: 6 FT

Plot Length, Unit: 30 FT Reps: 5

Site Type: UGA Ponder Farm

Tillage Type: Plasticulture

Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 88 % OM: 0.79

Texture: loamy sand

% Silt: 7 pH: 6.2

% Clay: 5

Overall Moisture Conditions: DRIP IRRIGATION

Closest Weather Station: www.griffin.uga.edu/aemn/

Distance: 250 Unit: yd

APPLICATION DESCRIPTION

A

Application Date: 7/11/2014

Time of Day: see

Application Method: comment

Application Timing: section

Applic. Placement: drip tape

Air Temp., Unit: 93 F

% Relative Humidity: 62

Wind Velocity, Unit: 7 mph

Dew Presence (Y/N): n

Soil Temp., Unit: 98 F

Soil Moisture: moist

% Cloud Cover: 0

WEED STAGE AT EACH APPLICATION

A

Weed 1 Code, Stage: CPSAN

Stage Scale: 30 inch

Density, Unit: 2 ft

APPLICATION EQUIPMENT

A

Appl. Equipment: See

Operating Pressure: comments