## **University of Georgia**

Pepper response to Eptam and Dual Magnum.

Trial ID: Veg4-09 Study Dir.: Stanley Culpepper Location: Ponder Farm Investigator: Stanley Culpepper

					Use	3 liters(s)		atment mixture		ay 25 g	jal/ac	
Trt No.	Treatment Name		Form Type	Rate	Rate Unit	Grow Stg	Appl	Amt Product to Measure		o. By R 2	tep 3	4
1	Pic Chlor 60 @ 21 G No herbicide No Dual POST					preplant POST			103	203	306	406
2	Pic Chlor 60 @ 21 G No herbicide Dual Magnum	7.64	L	12	oz/a	preplant POST	В	11.25 ml/mx	106	206	303	403
3	Pic Chlor 60 @ 21 G Eptam No Dual POST	7	E	3	pt/a	preplant POST	Α	45.0 ml/mx	101	201	304	404
4	Pic Chlor 60 @ 21 G Eptam Dual Magnum	7 7.64	E L	3 12	pt/a oz/a	preplant POST	A B	45.0 ml/mx 11.25 ml/mx	104	204	301	401
5	Pic Chlor 60 @ 21 G Eptam Dual Magnum No Dual POSt	7 7.64	E L	3 12	pt/a oz/a	preplant preplant		45.0 ml/mx 11.25 ml/mx	102	202	305	405
6	Pic Chlor 60 @ 21 G Eptam	7	E	3	pt/a	preplant	A	45.0 ml/mx	105	205	302	402

Sort Order: Treatment

Dual Magnum

**Dual Magnum** 

#### **Trial Comments**

11.25 ml/mx

11.25 ml/mx

OBJECTIVE: Determine transplant pepper response to Eptam/Dual herbicide systems.

oz/a preplant A

12 oz/a POST B

NOTE: PIC Chlor 60 at 21 G/A and LDPE mulch was implemented across the entire trial.

#### PEPPER RESPONSE:

- 1. Pepper were planted 26 d after fumigation and preplant herbicide applications.
  2. Injury was less than 6% with all treatments, even combinations of Eptam plus Dual.
  3. Dual POST applications were applied 5 d after transplant. No leaf injury or plant growth was impacted by these applications.

#### PEPPER YIELD:

1. Jumbo pepper fruit were harvested four times.

7.64 L

7.64 L

12

2. Treatments did not impact individual harvests or cumulative harvest.

#### 10/23/2009 (Veg4-09) AOV Means Table Page 2 of 5

# University of Georgia Pepper response to Eptam and Dual Magnum.

Trial ID: Veg4-09 Study Dir.: Stanley Culpepper Location: Ponder Farm Investigator: Stanley Culpepper

Cro Rati Rati Rati	Weed Code Crop Code Rating Data Type Rating Unit Rating Date ARM Action Codes			CPSAN injury % 3/24/2009		CPSAN injury % 3/31/2009		CPSAN injury % 4/27/2009			CPSAN HARVEST 1 #/PLOT 6/10/2009		CPSAN HARVEST 1 WT/LBS 6/10/2009		CPSAN HARVEST 2 #/PLOT 6/18/2009		CPSAN HARVEST WT/LBS 6/18/2009	<del>-</del> 2
	Treatment	D-4-	Rate			0		0			_		•		-		0	
NO.	Name	Rate	Unit	1		2		3		4	5		6		7		8	
1	Pic Chlor 60 @ 21 G No herbicide No Dual POST			0.0	С	0.0	а	0.0	а		5.8	а	3.83	а	12.5	а	6.20	а
2	Pic Chlor 60 @ 21 G No herbicide			1.5	bc	0.0	а	0.0	а		8.5	а	5.13	а	18.3	а	8.90	а
3	Dual Magnum Pic Chlor 60 @ 21 G Eptam No Dual POST	12 3	oz/a pt/a	3.8	abc	0.0	а	0.0	а		9.5	а	5.33	а	14.8	а	7.58	а
4	Pic Chlor 60 @ 21 G Eptam Dual Magnum	3 12	pt/a oz/a	1.3	bc	0.0	а	0.0	а		5.3	а	2.75	а	12.3	а	6.05	а
5	Pic Chlor 60 @ 21 G Eptam Dual Magnum No Dual POSt	3 12	pt/a oz/a	6.3	а	0.0	а	0.0	а		4.3	а	2.80	а	13.8	а	7.13	a
6	Pic Chlor 60 @ 21 G Eptam Dual Magnum Dual Magnum	3 12 12	pt/a oz/a oz/a	5.0	ab	0.0	а	0.0	а		2.3	а	1.08	а	11.8	а	5.15	a
Star CV Bart	0 (P=.05) ndard Deviation tlett's X2 artlett's X2)			3.82 2.39 80.76 7.371 0.118		0.00 0.00 0.0 0.0		0.00 0.00 0.0 0.0		-	4.67 2.92 49.36 9.092 0.105		3.057 1.911 54.86 9.682 0.085		12.13 7.59 54.67 8.182 0.146		6.910 4.320 63.22 11.332 0.045*	
Rep Trea	olicate F olicate Prob(F) olicatment F olicatment Prob(F)			13.36 0.001 4.124 0.031	2	0.000 1.0000 0.000 1.0000		0.000 1.0000 0.000 1.0000			4.489 0.0345 3.397 0.0533		5.258 0.0228 2.850 0.0819		8.422 0.0056 0.403 0.8354		5.945 0.0161 0.375 0.8536	

Means followed by same letter do not significantly differ (P=.05, LSD) Mean separations are based on the complete error term.

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

### AOV Means Table Page 3 of 5 10/23/2009 (Veg4-09) **University of Georgia**

Weed Code Crop Code Rating Data Type Rating Unit Rating Date ARM Action Codes				CPSAN HARVEST #/PLOT 6/24/2009	CPSAN HARVEST 3 WT/LBS 6/24/2009		CSPAN HARVEST #/PLOT 7/1/2009	CPSAN HARVEST WT/LBS 7/1/2009		TOTAL CSPAN HARV 1-4 #/PLOT 7/1/2009 T1		TOTAL CSPAN HARV 1-4 WT/LBS 7/1/2009 T2				
	Treatment Name	Rate	Rate Unit	9		10		11		12		13	14		15	
1	Pic Chlor 60 @ 21 G No herbicide No Dual POST			18.3	а	8.30	а	41.0	а	16.10	а		77.5	а	34.43	a
2	Pic Chlor 60 @ 21 G No herbicide			17.8	а	8.00	а	35.0	а	13.73	а		79.5	а	35.75	а
3	Dual Magnum Pic Chlor 60 @ 21 G Eptam No Dual POST	12 3	oz/a pt/a	24.0	а	9.68	а	37.0	а	14.43	а		85.3	а	37.00	a
4	Pic Chlor 60 @ 21 G Eptam Dual Magnum	3 12	pt/a oz/a	25.0	а	10.25	а	36.3	а	14.23	а		78.8	а	33.28	a
5	Pic Chlor 60 @ 21 G Eptam Dual Magnum	3	pt/a oz/a	22.8	а	9.55	а	33.8	а	12.53	а		74.5	а	32.00	a
6	No Dual POSt Pic Chlor 60 @ 21 G Eptam Dual Magnum Dual Magnum	3 12 12	pt/a oz/a oz/a	25.8	а	10.83	а	41.3	а	16.43	а		81.0	а	33.48	a
LSD (P=.05) Standard Deviation CV Bartlett's X2 P(Bartlett's X2)			9.85 6.16 27.68 3.142 0.678		4.526 2.830 30.0 4.612 0.465		15.47 9.67 25.88 4.534 0.475		6.617 4.137 28.39 3.882 0.567			26.89 16.81 21.17 8.577 0.127		13.955 8.724 25.42 8.723 0.121		
Replicate F Replicate Prob(F) Treatment F Treatment Prob(F)				0.382 0.7684 1.252 0.3618		0.473 0.7088 0.601 0.7016		2.851 0.0973 0.413 0.8283		1.982 0.1873 0.506 0.7658			0.817 0.5161 0.184 0.9617		1.083 0.4047 0.173 0.9663	

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

Mean separations are based on the complete error term.

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

#### 10/23/2009 (Veg4-09) Site Description Page 4 of 5

## **University of Georgia**

Pepper response to Eptam and Dual Magnum.

Trial ID: Veg4-09 Study Dir.: Stanley Culpepper Location: Ponder Farm Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

Study Director: Stanley Culpepper Title: Ext. Weed Science

**Affiliation:** Univ. of Georgia

Postal Code: 31795

Investigator: Stanley Culpepper Title: Ext. Weed Science

Affiliation: Univ. of Georgia
Postal Code: 31795

TRIAL LOCATION

ТуТу completed Trial Status: Citv: good 2/17/2009 State/Prov.: GA Trial Reliability: Postal Code: 31794 Initiation Date:

Country: USA

Conducted Under GLP (Y/N): N Conducted Under GEP (Y/N):  $\mathbb{N}$ 

CROP AND WEED DESCRIPTION

Weed Code Common Name Scientific Name

1. .

Crop 1: CPSAN PEPPER (TRANSPLANTS) Variety: ARISTOTLE

Planting Date: 3/12/2009 Planting Method: TRANSPLANT
Rate: 1 ft Depth: 2 in

Rate: 1 ft Depth: 2 in

Row Spacing: 15 IN Spacing Within Row: 12 IN Seed Bed: raised, mulcl

Soil Temperature: 78 F Soil Moisture: MOIST Emergence Date: 3/12/2009 Seed Bed: raised, mulch

SITE AND DESIGN

Plot Width, Unit: 6 FT Plot Length, Unit: 20 FT Reps: 4

Site Type: Ponder research farm

Tillage Type: conventional Study Design: SPLIT-PLOT

Texture: Tifton sandy loam

% Clay: 6

Overall Moisture Conditions: drip irrigation

Closest Weather Station: Ponder Research Farm Distance: 100 Unit: yd

APPLICATION DESCRIPTION

 
 Application Date:
 2/17/2009
 3/18/2009

 Time of Day:
 8:00 AM
 2:00 PM

 Application Method:
 BAND
 BROADCAST
 Application Timing: PREPLANT POST Applic. Placement: soil surf OVERTOP Air Temp., Unit: 45 F 77 F Relative Humidity: 65 55 Wind Velocity, Unit: 0 MPH 3 MPH Wind Velocity, ....

Dew Presence (Y/N): N

Thit: 50 F N Soil Temp., Unit: 84 F WET MOIST

Soil Moisture: % Cloud Cover:

CROP STAGE AT EACH APPLICATION

В

Crop 1 Code, Stage: CPSAN . CPSAN . Stage Scale: preplant
Height, Unit: 0 in 6-7 LF 4 IN

Α

WEED STAGE AT EACH APPLICATION

В

Weed 1 Code, Stage: . Stage Scale:

Density, Unit:

## 10/23/2009 (Veg4-09) Site Description Page 5 of 5

# **University of Georgia**

## APPLICATION EQUIPMENT

	A		В	
Appl. Equipment:	SUPE	R BED	BACK	PACK
Operating Pressure:	26 P	SI	24 P	SI
Nozzle Type:	FLAT	FAN	FLAT	FAN
Nozzle Size:	1100	15	1100	2
Nozzle Spacing, Unit:	8	IN	8	IN
Nozzles/Row:	5		2	
Boom Length, Unit:	5	FT	4.5	FT
Boom Height, Unit:	8	IN	15	IN
Ground Speed, Unit:	3	MPH	3	MPH
Carrier:	wate:	r	wate	r
Spray Volume, Unit:	25	GPA	15	GPA
Propellant:	CO2		CO2	
Tank Mix (Y/N):	Y		Υ	