Mar-04-04 (VEG37-03) Site Description Page 1 of 4

University of Georgia

Killing pepper after harvest but prior to a second crop on plastic.

Title: Ext.weed science

Trial ID: Veg37-03 Study Director: Culpepper

Location: Ponder farm Investigator: Stanley Culpepper

General Trial Information

Study Director: Culpepper

Affiliation: University of Georgia

Postal Code: 31794

Affiliation: University of Georgia

Postal Code: 31794

Trial Location

City: TyTy Trial Status: completed State/Prov.: Ga Trial Reliability: good Postal Code: 31795 Initiation Date: Jun-30-03

Country: U.S.A.

Directions:

Objectives:

Conclusions:

Crop Description

Crop 1: CPSAN Capsicum annuum Bell pepper

Variety: Amelia

BBCH Scale: BVSO Planting Date: Mar-10-03

Planting Method: transplant Rate, Unit: 1 12 inch

Depth, Unit: 1.5 in

Row Spacing, Unit: 6 feet Spacing Within Row, Unit: 12 inch Seed Bed: plastic Soil Temperature, Unit: 85 F

Soil Moisture: drip

Site and Design

Plot Width, Unit: 6 FT Site Type: research station
Plot Length, Unit: 20 FT Tillage Type: plasticulture
Replications: 4 Study Design: Split-Plot

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

% Sand: 94 **% OM:** 1.1 **Texture:** sand

% Silt: 2 pH: 6.4 Soil Name: Tifton sandy loam

% Clay: 4

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Application Description

	A	В	С	
Application Date:	Jun-30-03	Jul-02-03	Jul-05-03	
Time of Day:	10 am	3:00pm	9:00am	
Application Method:	Broadcast	Broadcast	broadcast	
Application Timing:	bef.Vapam	Vap injec	aft.Vapam	
Application Placement:	overtop	in drip	overtop	
Applied By:	culpepper	culpepper	culpepper	
Air Temperature, Unit:	90 F	87 F	85 F	
% Relative Humidity:	55	55	61	
Wind Velocity, Unit:	2 mph	8 mph	1 mph	
Dew Presence (Y/N):	n	n	n	
Soil Temperature, Unit:	94 F	94 F	88 F	
Soil Moisture:	moist	moist	wet	
% Cloud Cover:	100	90	40	

Crop Stage At Each Application

		A		В		С
Crop 1 Code, BBCH Scale:	CPSAN	BVSO	CPSA	N BVSO	CPSAI	N BVSO
Stage Scale Used:	BBCH		ВВСН		ввсн	
Stage Majority, Percent:	posth	arv 100	post	harv 100	post	harv 100
Stage Minimum, Percent:		0		0		0
Stage Maximum, Percent:		0		0		0
Diameter, Unit:	0.		0.		0.	
Height, Unit:	24	in	24	in	24	in
Height Minimum, Maximum:	20	28	20	28	20	28

Application Equipment

	ippiiodolon iquipment					
		A	В			С
Appl. Equipment:	back	pack	drip in	jе	back	pack
Operating Pressure:	22		2.5 hou	rs	22	
Pressure Unit:	PSI				PSI	
Nozzle Type:	flat	fan			flat	fan
Nozzle Size:	11002				11002	
Nozzle Spacing, Unit:	18	inch			18	inch
Nozzles/Row:	4				4	
Boom Length, Unit:	4.5	feet			4.5	feet
Boom Height, Unit:	15	inch			15	inch
Ground Speed, Unit:	3	mph			3	mph
Carrier:	wate:	r			wate:	r
Spray Volume:	14.8				14.8	
Volume Unit:	GPA				GPA	
Propellant:	CO2				CO2	
Tank Mix (Y/N):	Y				Y	

University of Georgia

Killing pepper after harvest but prior to a second crop on plastic.

Trial ID: Veg37-03

Study Director: Culpepper Investigator: Stanley Culpepper Location: Ponder farm

PEPPER Rating Date PEPER Rating Date PEPPER Rating Date PEPER Rating Date PEPPER Rating Date PEPER Retain Date PEPER Rating Date PEPER Retain PEPPER Retain PEPPER Retain PEPPER Retai		ation: Ponder	farm	l			estigator:	
Rating Data Type Rating Unit Percent P					PEPPER	PEPPER	PEPPER	PEPPER
Rating Unit								
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Before Vapam			Rate		1	2	3	4
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Before Vapam WeatherMax 25 g/a 92.3 90.3 93.3 96.3				J				
WeatherMax 21.3 oz/a 92.5 91.3 95.3 95.3 95.3 WeatherMax 25 g/a 90.0 84.5 84.5 88.0 WeatherMax 21.3 oz/a Aim 1 oz/a 25 g/a 86.3 82.0 83.0 78.8 20.3 oz/a Aim 2 oz/a 20.3 o	2		25	n/a	92.3	90.3	93.3	96.3
Sefore Vapam WeatherMax 25 g/a 92.5 91.3 95.3 95.3 95.3					32.0	30.0	30.0	30.0
WeatherMax	3				02.5	01.3	05.3	05.3
A Before Vapam	5				92.5	91.5	90.0	90.0
WeatherMax	1				00.0	015	015	99 N
Aim	4				90.0	04.5	04.5	00.0
5 Before Vapam Weather/Max Aim 25 g/a 20 zo/a 86.3 82.0 83.0 78.8 6 Before Vapam Gramxone Max NIS 25 g/a 20 ya 20 zo/a 91.5 79.5 78.5 80.5 7 No Fumigant None 0.25 % v/v 0.0 0.0 0.0 0.0 0.0 8 No Fumigant WeatherMax 21.3 oz/a 32.5 25.0 25.0 22.5 9 No Fumigant WeatherMax 21.3 oz/a Aim 64.5 63.8 38.8 33.0 10 No Fumigant WeatherMax Aim 21.3 oz/a Aim 62.5 54.3 42.5 38.8 11 No Fumigant Gramxone Max Aim 20 oz/a 85.3 74.5 42.5 36.3 12 No Fumigant Gramxone Max Aim 32 oz/a Aim 87.8 90.3 90.0 74.5 13 After Vapam WeatherMax Aim 21.3 oz/a Aim 87.8 90.3 90.0 74.5 16 After Vapam WeatherMax Aim 21.3 oz/a Aim 88.8 90.5 89.5 92.5 17 After Vapam WeatherMax Aim 21.3 oz/a Aim 96.3 97.8 97.5 99.8								
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WeatherMax 32 oz/a 16 After Vapam 88.8 90.5 89.5 92.5 WeatherMax 21.3 oz/a 96.3 97.8 97.5 99.8 17 After Vapam 96.3 97.8 97.5 99.8 WeatherMax 21.3 oz/a 95.0 95.5 98.0 95.3 18 After Vapam 95.0 95.5 98.0 95.3 Gramxone Max 32 oz/a 95.0 95.5 98.0 95.3 LSD (P=.05) 11.60 11.59 10.12 10.60 Standard Deviation 8.20 8.19 7.15 7.50 CV 10.9 11.23 10.15 10.96 Bartlett's X2 39.277 35.592 31.303 31.79	15				85.8	89.8	92.0	92.3
16 After Vapam WeatherMax Aim 21.3 oz/a 1 oz/a 88.8 90.5 89.5 92.5 17 After Vapam WeatherMax Aim 96.3 97.8 97.5 99.8 18 After Vapam Gramxone Max NIS 95.0 95.5 98.0 95.3 LSD (P=.05) Standard Deviation CV 11.60 11.59 10.12 10.60 Standard Deviation Bartlett's X2 8.20 8.19 7.15 7.50 Bartlett's X2 39.277 35.592 31.303 31.79			32	oz/a				
WeatherMax Aim 21.3 oz/a 1 oz/a 17 After Vapam WeatherMax Aim 96.3 97.8 97.5 99.8 18 After Vapam Gramxone Max NIS 95.0 95.5 98.0 95.3 LSD (P=.05) Standard Deviation CV Bartlett's X2 11.60 11.59 10.12 10.60 11.23 10.15 10.96 10.96 11.23 10.15 10.96 10.96 11.23 10.15 10.96 11.23 10.15 10.96 10.96 11.23 10.15 10.96 10.	16				88.88	90.5	89.5	92.5
Aim 1 oz/a 17 After Vapam WeatherMax Aim 96.3 97.8 97.5 99.8 18 After Vapam Gramxone Max NIS 95.0 95.5 98.0 95.3 LSD (P=.05) Standard Deviation CV 11.60 11.59 10.12 10.60 Standard Deviation CV 8.20 8.19 7.15 7.50 Bartlett's X2 39.277 35.592 31.303 31.79	.5		21.3	07/2	55.5	55.0	55.5	32.0
17 After Vapam WeatherMax Aim 96.3 97.8 97.5 99.8 18 After Vapam Gramxone Max NIS 95.0 95.5 98.0 95.3 LSD (P=.05) Standard Deviation CV 11.60 11.59 10.12 10.60 Standard Deviation Bartlett's X2 8.20 8.19 7.15 7.50 Bartlett's X2 39.277 35.592 31.303 31.79				-				
WeatherMax Aim 21.3 oz/a 2 oz/a 18 After Vapam Gramxone Max NIS 95.0 95.5 98.0 95.3 LSD (P=.05) Standard Deviation CV Bartlett's X2 11.60 11.59 10.12 10.60 11.59 7.15 7.50 10.96 11.23 10.15 10.96 11.23	17			o_ru	96.3	97.8	97.5	99.8
Aim 2 oz/a 18 After Vapam 95.0 95.5 98.0 95.3 Gramxone Max NIS 0.25 % v/v	''		21 2	07/2	30.0	31.0	31.3	33.0
18 After Vapam 95.0 95.5 98.0 95.3 Gramxone Max NIS 0.25 % v/v 0.25 % v								
Gramxone Max NIS 32 oz/a 0.25 % v/v 11.60 11.59 10.12 10.60 LSD (P=.05) 11.60 11.59 7.15 7.50 Standard Deviation 8.20 8.19 7.15 7.50 CV 10.9 11.23 10.15 10.96 Bartlett's X2 39.277 35.592 31.303 31.79	40			UZIA	OF O	OF F	00.0	05.3
NIS 0.25 % v/v LSD (P=.05) 11.60 11.59 10.12 10.60 Standard Deviation 8.20 8.19 7.15 7.50 CV 10.9 11.23 10.15 10.96 Bartlett's X2 39.277 35.592 31.303 31.79	18	Anter vapam		/-	95.0	90.5	98.0	95.3
LSD (P=.05) 11.60 11.59 10.12 10.60 Standard Deviation 8.20 8.19 7.15 7.50 CV 10.9 11.23 10.15 10.96 Bartlett's X2 39.277 35.592 31.303 31.79								
Standard Deviation 8.20 8.19 7.15 7.50 CV 10.9 11.23 10.15 10.96 Bartlett's X2 39.277 35.592 31.303 31.79			0.25	% V/V				
CV 10.9 11.23 10.15 10.96 Bartlett's X2 39.277 35.592 31.303 31.79								
Bartlett's X2 39.277 35.592 31.303 31.79		ndard Deviation						
P(Bartlett's X2) 0.001* 0.003* 0.012* 0.011*								
	P(Ba	artlett's X2)			0.001*	0.003*	0.012*	0.011*

University of Georgia

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Crop Code	PEPPER	PEPPER	PEPPER	PEPPER
Rating Date	Jul-13-03	Jul-20-03	Aug-08-03	Aug-26-03
Rating Data Type	injury	injury	injury	injury
Rating Unit	percent	percent	percent	percent
Days After Last Applic.	8	15	34	52
Trt-Eval Interval				57 DA-A

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

Trial Comments

OBJECTIVE: Determine the most effective fumigant application/herbicide option to kill pepper after harvest.

VISUAL CONTROL:

- 1. Vapam alone was more effective than any of the herbicide options applied alone.
- 2. With WeatherMax, it did not matter if it was applied before or after the Vapam application.
- 3. Mixing Aim with WeatherMax did not improve control and tended to reduce control if the glyphosate plus Aim was applied prior to the Vapam (36 or 54 d after injecting Vapam).
- 4. There was a Gramoxone by Vapam timing interaction. By 17 DAT, control was greater when Gramoxone was applied after the Vapam injection as compared to being applied before the Vapam injection. Control from Gramoxone before Vapamwas no better than Vapam alone.
- 5. By 36 to 54 DAT, the most effective treatments were WeatherMax applied before or after Vapam or Vapam followed by any herbicide application.