Trial ID: Veg63-06 Protocol ID: Location: Ponder farm (5141) Study Director: Stanley Culpepper Reps: 4 Plots: 6 by 50 feet Spray vol: 200 l/ha Mix size: 2 liters (min 2.2299) Trt Treatment Form Form No. Name Conc Unit Type Rate Unit Stage Color Unit Type Rate Vapam 75 G 4" A 2 Telone II 12 G 12" A Chloropicrin 100 lb 8" A Vapam 75 G 4" A 3 Telone II 12 G 12" A Chloropicrin 75 lb 8" A Vapam 75 G 4" A 4 Telone II 12 G 12" Chloropicrin 50 lb 8" A Vapam 75 G 4" A 3 Telone II 12 G 12" A Chloropicrin 50 lb 8" A Vapam 75 G 4" A 4 Telone II 12 G 12" A Chloropicrin 50 lb 8" A Vapam 75 G 4" A 4 Telone II 12 G 12" Chloropicrin 50 lb 8" A Vapam 75 G 4" A A Yapam 75 G 4" <		Determing t	he most ef	fective	rate of	E Chlor	opicr	in in a Tel	lone/I	Pic/Va	apam	syste	m.
Location: Ponder farm (5141) Study Director: Stanley Culpepper Investigator: Stanley Culpepper Reps: 4 Plots: 6 by 50 feet Spray vol: 200 l/ha Mix size: 2 liters (min 2.2299) Trt Treatment Form Form Form Form Rate Growth Appl Amt Product Plot No. By Rep Conc Unit Type Rate Unit Stage Code to Measure 1 2 3 4 1 Telone II 12 G 12" A 101 205 304 407 Chloropicrin 150 lb 8" A 101 205 304 407 2 Telone II 12 G 12" A 102 207 302 404 Chloropicrin 100 lb 8" A 102 207 302 404 Vapam 75 G 4" A 103 206 303 403 Vapam 75 G 4" A 103 206 303 403 Vapam 75 G 4" A 104 201 306 402 4 Telone II 12 G 12" A 104 201 306 402 Chloropicrin 50 lb 8" A 104 201 306 402 Vapam 75 G 4" A 104 201 306 402 File Chlor60 8" A A <td></td> <td>Trial ID: Veq63-06</td> <td></td> <td>:</td> <td>Protoco</td> <td>l ID:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		Trial ID: Veq63-06		:	Protoco	l ID:							
Investigator: Stanley Culpepper Reps: 4 Plots: 6 by 50 feet Spray vol: 200 l/ha Mix size: 2 liters (min 2.2299) Trt Treatment Form Form Rate Growth Appl Amt Product Plot No. By Rep No. Name Conc Unit Type Rate Growth Appl Amt Product Plot No. By Rep No. Name Conc Unit Type Rate Growth Appl Amt Product Plot No. By Rep No. Name Conc Unit Type Rate Unit Stage Code to Measure 1 2 3 4 1 Telone II 12 G 12" A 101 205 304 407 Chloropicrin 100 Ib 8" A 102 207 302 404 Vapam 75 G 4" A 103 206 303 403 Chloropicrin 75 Ib 8" A 103 206 303 403 Vapam 75 G 4" A 104 201 306 402 Chloropicrin 5		5	cm (5141)	Stu	dy Dire	ctor: S	tanle	y Culpepper	r				
Spray vol: 200 I/ha Mix size: 2 liters (min 2.2299) Trt Treatment Form Form Form Rate Growth Appl Amt Product Plot No. By Rep No. Name Conc Unit Type Rate Growth Appl Amt Product Plot No. By Rep 1 Telone II 12 G 12" A 101 205 304 407 Chloropicrin 150 lb 8" A A 101 205 304 407 2 Telone II 12 G 12" A A 102 207 302 404 Chloropicrin 100 lb 8" A A 102 207 302 403 Vapam 75 G 4" A A 103 206 303 403 Chloropicrin 75 lb 8" A A 103 206 303 402 Vapam 75 G 4" A A 104 201 306 402 Chloropicrin 50 lb 8" A A 104 201 306 402 </td <td></td> <td colspan="10"></td>													
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2 Telone II 12 G 12" A 102 207 302 404 Chloropicrin 100 lb 8" A A 103 206 303 403 3 Telone II 12 G 12" A 103 206 303 403 Chloropicrin 75 lb 8" A 103 206 303 403 Vapam 75 G 4" A 104 201 306 402 4 Telone II 12 G 12" A 104 201 306 402 Chloropicrin 50 lb 8" A 104 201 306 402 Vapam 75 G 4" A 104 201 306 402 5 Pic Chlor60 8" A 105 202 307 405 Pic at 100 lb and TII 12G A A 105 202 307 405 Vapam 75 G 4" A I I I I I I I I		Chloropicrin 150 lb 8"					А						
Chloropicrin 100 lb 8" A Vapam 75 G 4" A 3 Telone II 12 G 12" A Chloropicrin 75 lb 8" A Vapam 75 G 4" A 4 Telone II 12 G 12" A Chloropicrin 50 lb 8" A Vapam 75 G 4" A 101 U 2 G 12" A Chloropicrin 50 lb 8" A Vapam 75 G 4" A 5 Pic Chlor60 8" A Pic at 100 lb and TII 12G A Vapam 75 G 4" A		Vapam 75 G 4"					А						
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3 Telone II 12 G 12" A 103 206 303 403 Chloropicrin 75 lb 8" A A 104 201 306 402 4 Telone II 12 G 12" A 104 201 306 402 Chloropicrin 50 lb 8" A 104 201 306 402 Vapam 75 G 4" A 104 201 306 402 5 Pic Chlor60 8" A 105 202 307 405 Pic at 100 lb and TII 12G A A 105 202 307 405 Vapam 75 G 4" A 105 202 307 405		Chloropicrin 100 lb 8"					А						
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Vapam 75 G 4" A Image: Constraint of the second secon	3	Telone II 12 G 12"					А		103	206	303	403	
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Vapam 75 G 4" A Image: Constraint of the second secon	4	Telone II 12 G 12"					А		104	201	306	402	
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Vapam 75 G 4" A	5	Pic Chlor60 8"					А		105	202	307	405	
		Pic at 100 lb and TII 12G	ì				А						
6 Pic Chlor60 12" A 106 203 305 406		Vapam 75 G 4"					А						
	6	Pic Chlor60 12"					Α		106	203	305	406	
Pic at 100 lb and TII 12G A		Pic at 100 lb and TII 12G	ì				А						
Vapam 75 G 4" A		Vapam 75 G 4"					А						
7 Non-treated 107 204 301 401	7	Non-treated							107	204	301	401	

Sort Order: Treatment

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

Amount* Unit Treatment Name Form Conc Form Type Lot Code

* 'Per area' calculations based on spray volume= 200 l/ha, mix size= 2 liters (mix size basis).
* Product amount calculations increased 25 % for overage adjustment.

Trial Comments

OBJECTIVE: 1) Determine how the Pic rate in the 3-way fumigant system impacts weed control and 2) to see how the depth impacts control by Pic.

VISUAL NUTSEDGE CONTROL:

1. Early in the season, Pic rate in the 3 way had no impact on nutsedge control. By late-season, the 50 lb rate of Pic was less effective than the 150 lb rate in the system.

2. Pic Chlor (100 lb of Pic plus Telone applied in combination) applied 8 inches deep followed by Vapam was as effective as the sequential treatment of Telone followed by Pic at 100 lb followed by Vapam.

3. Late in the season, control with Pic Chlor applied 12 inches deep was 30% less effective than when applied 8 inches deep.

NUTSEDGE EMERGENCE:

1. Nutsedge emerging through the entire plot were counted.

2. Pic rate had little impact on nutsedge emergence in the 3 way.

3. Applying Pic Chlor 12 inches had 5 times the number of nutsedge as applying the same fumigant 8 inches deep.

RUNNER LENGTH:

1. Cucumber runner lengths during mid-season were not impacted by fumigant system. Cucumber in treated plots were at least 16% larger than the non-treated control.

CUCUMBER HARVEST:

1. Cucumber were harvested 7 times by a hired experienced labor crew. Cucumber were harvested as slicers and culls were removed prior to counting fruit or weighing fruit.

2. The non-treated control produced about half the number and weight of fruit produced by the 3 way with 150 lb of Pic.

3. A trend for lower yields as the Pic rate decreased was noted, however this needs to be studied much more closely to see exactly what pest may be causing this trend as nutsedge control did not vary much with Pic rate.

4. Yields from the Pic Chlor program applied 12 inches deep were 18% less than the same program applied at 8 inches which was likely a response to nutsedge control.

CONCLUSION:

1. The three way combination provided marginal control of nutsedge by late-season, likely in response to the severe infestation in this field and the fact that this was a fall application into 93 degree soil. This system should be adopted in fields with moderate to low levels of nutsedge or other weedy pest in the spring, until additional data is developed.

2. The combination of Pic and Telone was similarly effective as the sequential applications as long as Pic was applied at 8 inches in depth.

3. Pic should not be applied at a 12 inch depth for weed control..

GENERAL COMMENTS:

1. July 18: fumigants were applied, beds were formed and mulch was laid. Soil and air reached 95 at 4 inches and 91 at 8 inches while applying fumigants, moisture was ideal at 17%. PIC was applied with the super bedder at 8 inches. Pic Chlor was applied either 8 or 12 inch deep with the super bedder. The super bedder had 3 knives on a 32 inch bedtop. Vapam was injected 4 inches deep into the final bed with the injection knives 4 inches apart. Telone II was injected 12 inches deep with a Yetter applicator.

2. Transplant holes were poked and cucumber was planted on August 4.

3. Plot size was 1 bed by 50 feet long with one row per plot. The entire plot was used to make all measurements including harvest.

University of Georgia

Determing the most effective rate of Chloropicrin in a Telone/Pic/Vapam system.									
Trial ID: Veq63-06	Pi	rotocol II):						
Location: Ponder farm (5141)	Study	y Director	: Stanley	Culpeppe	r				
	Inv	vestigator	: Stanley	^r Culpeppe	r				
Pest Type	W Weed			W Weed					
Pest Code	CYPRO	CYPRO	CYPRO	CYPRO	CYPRO	CYPRO	CYPRO		
BBCH Scale Part Rated	Р	Р	Р	Р	Р	Р	Б		
Rating Date			-	г Sep-30-06	-	-	۲ Sep-08-06		
Rating Data Type	control	-	control	-	emerged pla	•	emerged pla		
Rating Unit	percent		percent	percent	#	#	#		
Assessed By	SC	' AD	SC	SC	AD	AD	AD		
Days After First/Last Applic.	17	37	58	74	8	15	52		
Trt-Eval Interval	17 DA-A	37 DA-A	58 DA-A	74 DA-A	8 DA-A	15 DA-A	52 DA-A		
ARM Action Codes									
Trt Treatment Rate				_	_		_		
No. Name Rate Unit	1	2	3	4	5	6	7		
1 Telone II 12 G 12 "	93 a	84 a	84 a	84 a	4 b	12 c	29 c		
Chloropicrin 150 lb 8"									
Vapam 75 G 4" 2 Telone II 12 G 12"	00 -	00.0	00 0	70 -	4 6	45 -	22 62		
Chloropicrin 100 lb 8"	89 a	83 a	82 a	79 a	4 b	15 c	33 bc		
Vapam 75 G 4"									
3 Telone II 12 G 12"	90 a	86 a	82 a	76 a	3 b	16 c	33 bc		
Chloropicrin 75 lb 8"	30 a	00 a	02 a	70 a	5.5	10 0	33 50		
Vapam 75 G 4"									
4 Telone II 12 G 12"	88 a	85 a	83 a	74 a	2 b	15 c	35 bc		
Chloropicrin 50 lb 8"									
Vapam 75 G 4"									
5 Pic Chlor60 8"	93 a	86 a	83 a	76 a	1 b	7 с	21 c		
Pic at 100 lb and TII 12G									
Vapam 75 G 4"									
6 Pic Chlor60 12"	81 b	60 b	60 b	48 b	14 b	56 b	101 b		
Pic at 100 lb and TII 12G									
Vapam 75 G 4"									
7 Non-treated	0 c	0 c	0 c	0 c	139 a	248 a	308 a		
LSD (P=.05)	6.2	7.2	5.3	9.9	15.8	35.5	-		
Standard Deviation	4.1	4.9	3.6	6.6	10.6	23.9	43.4		
	5.44	7.05	5.31	10.67	44.8	45.49	54.37		
Bartlett's X2	12.684	8.254	2.862	10.464	42.186	44.913	36.767		
P(Bartlett's X2)	0.027*	0.143	0.721	0.063	0.001*	0.001*	0.001*		

Crop Code BBCH ScaleCUMSA BW/T <th></th> <th></th> <th></th> <th></th> <th><u> </u></th> <th></th> <th></th> <th></th>					<u> </u>			
Crop Code BBCH ScaleCUMSA BW/T <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
BBCH Scale BVVT C								Plant 7
Part Rated C <th<< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>CUMSA</td></th<<>								CUMSA
Rating Date Aug-21-06 Aug-21-06 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>BVVT</td>								BVVT
Rating Data Type Rating Unit Assessed By Days After First/Last Applic.runner lgth runner (CM CM ADrunner lgth runner (CM CM ADrunner lgth (CM CM AD ADrunner lgth (CM AD ADrunner lgth (CM AD AD ADrunner lgth (CM ADA		-	-	-	-	-	-	C
Rating Unit cm		0						
Assessed By Days After First/Last Applic. AD		•	•	-	-	•	•	runner lgth
Days After First/Last Applic. 34								cm
Tri-Eval Interval ARM Action Codes 34 DA-A 34 DA-A <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>AD 34</td>	· · · · · · · · · · · · · · · · · · ·							AD 34
ARM Action Codes Image: constraint of the second secon								34 34 DA-A
Trt Treatment Rate 9 10 11 12 13 14 1 Telone II 12 G 12 " Chloropicrin 150 lb 8" Vapam 75 G 4" 19 a 18 b 20 a 18 a 19 a 23 a 23 2 Telone II 12 G 12" Chloropicrin 100 lb 8" Vapam 75 G 4" 22 a 21 ab 21 a 22 a 24 a 23 a 24 3 Telone II 12 G 12" Chloropicrin 75 lb 8" Vapam 75 G 4" 21 a 18 b 19 a 22 a 21 a 22 a 21 a 22 a 24 a 23 a 24 4 Telone II 12 G 12" Chloropicrin 75 lb 8" Vapam 75 G 4" 21 a 18 b 19 a 22 a 21 a 22 a 21 a 22 a 24 a 23 a 24 4 Telone II 12 G 12" Chloropicrin 50 lb 8" Vapam 75 G 4" 21 a 19 ab 22 a 20 a 21 a 21 a 22 a 24 22 a 24 a 22 a 24 a <td< td=""><td></td><td>34 DA-A</td><td>34 DA-A</td><td>34 DA-A</td><td>34 DA-A</td><td>34 DA-A</td><td>34 DA-A</td><td>34 DA-A</td></td<>		34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A
No. Name Rate Unit 8 9 10 11 12 13 14 1 Telone II 12 G 12" 19 a 18 b 20 a 18 a 19 a 23 a 23 a 23 a 23 a 23 a 24								
1Telone II 12 G 12"19 a18 b20 a18 a19 a23 a23 a2Telone II 12 G 12"22 a21 ab21 a22 a24 a23 a24 a2Telone II 12 G 12"22 a21 ab21 a22 a24 a23 a24 a3Telone II 12 G 12"21 a18 b19 a22 a21 a22 a24 a23 a24 a3Telone II 12 G 12"21 a18 b19 a22 a21 a22 a21 a22 a21 a4Telone II 12 G 12"21 a19 ab22 a20 a21 a21 a22 a21 a22 a4Telone II 12 G 12"21 a19 ab22 a20 a21 a21 a22 a4Telone II 12 G 12"21 a19 ab22 a20 a21 a21 a22 a4Telone II 12 G 12"21 a19 ab22 a20 a21 a21 a22 a5Pic Chloropicrin 50 lb 8"22 a24 a22 a23 a25 a22 a24 a5Pic Chlor60 8"22 a24 a23 ab23 a17 a22 a22 a24 a23 a6Pic Chlor60 12"24 a23 ab23 a17 a22 a22 a24 a24 a			9	10	11	12	13	14
Vapam 75 G 4" 2 21 ab 21 a 22 a 24 a 23 a 24 a 24 a 23 a 24 a <td></td> <td>19 a</td> <td>18 b</td> <td>20 a</td> <td>18 a</td> <td>19 a</td> <td>23 a</td> <td>23 a</td>		19 a	18 b	20 a	18 a	19 a	23 a	23 a
2 Telone II 12 G 12" Chloropicrin 100 lb 8" Vapam 75 G 4" 22 a 21 ab 21 a 22 a 24 a 23 a 24 a 24 a 23 a 24 a 2	Chloropicrin 150 lb 8"							
Chloropicrin 100 lb 8" Vapam 75 G 4" 21 a 18 b 19 a 22 a 21 a 22 a 21 a 22 a 22 a 22 a 21 a 22 a 22 a 21 a 21 a 22 a 22 a 21 a 21 a 22 a 22 a 21 a 21 a 21 a 21 a 22 a 22 a 21 a 21 a 21 a 22	Vapam 75 G 4"							
Chloropicrin 100 lb 8" Vapam 75 G 4" 21 18 19 22 21 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 2	2 Telone II 12 G 12"	22 a	21 ab	21 a	22 a	24 a	23 a	24 a
Vapam 75 G 4" Image: Constraint of the second s	Chloropicrin 100 lb 8"							
Chloropicrin 75 lb 8" Vapam 75 G 4"Image: Chloropicrin 75 lb 8" Vapam 75 G 4"Image: Chloropicrin 50 lb 8" 	•							
Chloropicrin 75 lb 8" Vapam 75 G 4" 21 19 ab 22 a 21 a 22 a 22 a 22 a 22 a 22 a<	3 Telone II 12 G 12"	21 a	18 b	19 a	22 a	21 a	22 a	20 ab
Vapam 75 G 4" Image: Constraint of the second s								
4 Telone II 12 G 12" 21 a 19 ab 22 a 20 a 21 a 21 a 22 a Chloropicrin 50 lb 8" Vapam 75 G 4" 22 a 22 a 23 a 21 a 21 a 22 a 5 Pic Chlor60 8" 22 a 22 a 24 a 22 a 23 a 25 a 22 a 22 a Vapam 75 G 4" 24 a 23 ab 23 a 17 a 22 a 22 a 24 a 6 Pic Chlor60 12" 24 a 23 ab 23 a 17 a 22 a 22 a 24 a Pic at 100 lb and TII 12G 24 a 23 ab 23 a 17 a 22 a 22 a 24 a								
Chloropicrin 50 lb 8" Vapam 75 G 4" 22 a 24 a 22 a 23 a 25 a 22 a 23 a 5 Pic Chlor60 8" Pic at 100 lb and TII 12G Vapam 75 G 4" 22 a 24 a 22 a 23 a 25 a 22 a 23 a 6 Pic Chlor60 12" Pic at 100 lb and TII 12G 24 a 23 ab 23 a 17 a 22 a 22 a 24 a		21 a	19 ab	22 a	20 a	21 a	21 a	22 a
Vapam 75 G 4" Image: Children of the second sec								
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Pic at 100 lb and TII 12G Image: Chic of the second se		22 a	24 a	22 a	23 a	25 a	22 a	23 a
Vapam 75 G 4"								
6 Pic Chlor60 12" 24 a 23 ab 23 a 17 a 22 a 22 a 24 a Pic at 100 lb and TII 12G 24 a 23 ab 23 a 17 a 22 a 24 a 24 a 24 a 23 ab 24 a								
Pic at 100 lb and TII 12G		24 a	23 ab	23 a	17 a	22 a	22 a	25 a
	Pic at 100 lb and TII 12G							
Vapam 75 G 4"	Vapam 75 G 4"							
7 Non-treated 19 a 18 b 18 a 17 a 18 a 20 a 18	7 Non-treated	19 a	18 b	18 a	17 a	18 a	20 a	15 b
LSD (P=.05) 4.5 4.8 6.1 6.1 6.7 5.5	LSD (P=.05)	4.5	4.8	6.1	6.1	6.7	5.5	5.4
Standard Deviation 3.0 3.2 4.1 4.1 4.5 3.7								3.7
	CV		16.02	19.66	21.1	21.15	17.21	16.89
	Bartlett's X2	9.602			8.812	3.412	4.366	4.85
P(Bartlett's X2) 0.142 0.61 0.215 0.184 0.756 0.627 0	P(Bartlett's X2)	0.142	0.61	0.215	0.184	0.756	0.627	0.563

						<u> </u>			
Pest Type									
Pest Code			Plant 8	Plant 9	Plant 10	Plant 11	Plant 12	Plant 13	Plant 14
Crop Code			CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
BBCH Scale			BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT
Part Rated			С	С	С	С	С	С	С
Rating Date			Aug-21-06	Aug-21-06	Aug-21-06	Aug-21-06	Aug-21-06	Aug-21-06	Aug-21-06
Rating Data Ty	/pe		runner lgth	runner lgth	runner lgth	runner lgth	runner lgth	runner lgth	runner lgth
Rating Unit			cm	cm	cm		cm	cm	cm
Assessed By			AD	AD	AD		AD	AD	AD
Days After First/Last Applic.			34	34	34	-	34	34	34
Trt-Eval Interva			34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A
ARM Action Co									
Trt Treatmen	ıt	Rate							
No. Name		Rate Unit	15	16	17	18	19	20	21
1 Telone II	12 G 12 "		22 ab	22 a	20 a	22 ab	19 ab	20 ab	22 ab
	rin 150 lb 8"								
Vapam 75	5 G 4"								
2 Telone II	12 G 12"		22 ab	22 a	21 a	22 ab	25 a	23 ab	24 a
Chloropic	rin 100 lb 8"								
Vapam 75	5 G 4"								
3 Telone II	12 G 12"		22 ab	23 a	22 a	20 ab	23 ab	22 ab	22 ab
Chloropic	rin 75 lb 8"								
Vapam 75	5 G 4"								
4 Telone II	12 G 12"		20 ab	19 a	20 a	22 ab	22 ab	22 ab	20 ab
	rin 50 lb 8"								
Vapam 75									
5 Pic Chlor			21 ab	25 a	23 a	22 ab	20 ab	23 ab	21 ab
) Ib and TII 12G		2. 6.0	20 %	20 0	~~	20 0.0	20 0.0	
Vapam 75									
6 Pic Chlor			24 a	20 a	22 a	23 a	24 ab	25 a	20 ab
	b and TII 12G		2.4	20 4	u	20 u	2.45	20 u	20 00
Vapam 75									
7 Non-treat			17 b	19 a	19 a	18 b	18 b	18 b	17 b
LSD (P=.05)			5.2	6.0	5.3		6.0	4.7	5.6
LSD (P=.05) Standard Devi	ation		5.2 3.5	6.0 4.1	5.3 3.6		6.0 4.0	4.7	5.6 3.8
CV	auon		3.5 16.9	4.1 19.05	3.0 17.15		4.0 18.63	3.2 14.59	3.0 18.22
Bartlett's X2			0.309	5.739	3.827	6.009	10.001	6.268	
P(Bartlett's X2))		0.309	0.453	0.70		0.125	0.208	
	1		0.333	0.400	0.70	0.722	0.125	0.004	0.720

$ \begin{array}{ccccc} Crop Code \\ BBCH Scale \\ BHCH Scale \\ BVT $						<u> </u>			
$\begin{array}{cccc} Crop Code \\ BBCH Scale \\ BCH Sca$	Pest Type								
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Pest Code		Plant 15	Plant 16	Plant 17	Plant 18	Plant 19	Plant 20	Avg20pla
Part Rated Rating Data Rating Data Type C Aug-21-06 runner Igth runner Igth runn	Crop Code				CUMSA	CUMSA			
Rating Date Aug-21-06 Aug-21 Au	BBCH Scale		BVVT						
Rating Data Type runner lgth runner lgth<	Part Rated		С	С	С	С	С	С	С
Rating Unit m <th< td=""><td>0</td><td></td><td>Aug-21-06</td><td>Aug-21-06</td><td>Aug-21-06</td><td></td><td></td><td></td><td></td></th<>	0		Aug-21-06	Aug-21-06	Aug-21-06				
Assessed By AD			runner lgth						
Days After First/Last Applic. 34							-	cm	
Tri-Eval Interval ARM Action Codes 34 DA-A 34 DA-A <td></td> <td></td> <td></td> <td></td> <td></td> <td>AD</td> <td>AD</td> <td>AD</td>						AD	AD	AD	
ARM Action Codes T1 Trt Treatment Rate 22 23 24 25 26 27 28 1 Telone II 12 G 12" 21 a 21 ab 21 ab 21 ab 20 a 19 ab 22 a 20 a 2 Telone II 12 G 12" 20 a 22 ab 21 ab 21 ab 21 ab 23 a 25 a 23 a 22 a 20 a 2 Telone II 12 G 12" 20 a 22 ab 21 ab 21 ab 23 a 25 a 23 a 22 a 22 a 3 Telone II 12 G 12" 20 a 23 a 19 ab 21 ab 21 ab 19 ab 21 a 21 ab 19 a 21 a 3 Telone II 12 G 12" 23 a 21 ab 19 ab 21 a 21 ab 19 a 21 a 21 a 22 a 22 a 21 a 4 Telone II 12 G 12" 23 a 21 ab 22 a 22 a 21 a 22 a							-		34
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			34 DA-A						
No. Name Rate Unit 22 23 24 25 26 27 28 1 Telone II 12 G 12" Chloropicrin 150 lb 8" Vapam 75 G 4" 21 a 21 ab 21 ab 21 ab 20 a 19 ab 22 a 20 a 2 Telone II 12 G 12" Chloropicrin 100 lb 8" Vapam 75 G 4" 20 a 22 ab 21 ab 23 a 25 a 23 a 22 a 3 Telone II 12 G 12" Vapam 75 G 4" 23 a 19 ab 19 ab 21 ab 21 ab 19 a 21 ab 19 a 21 ab 22 a 24 a 22 a <	ARM Action Codes								T1
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Trt Treatment	Rate							
Chloropicrin 150 lb 8" Vapam 75 G 4" 20 a 22 ab 21 ab 23 a 25 a 23 a 22 ab 2 Telone II 12 G 12" Vapam 75 G 4" 20 a 22 ab 21 ab 23 a 25 a 23 a 22 ab 3 Telone II 12 G 12" Chloropicrin 75 lb 8" Vapam 75 G 4" 23 a 19 ab 19 ab 21 a 21 ab 19 a 21 a 4 Telone II 12 G 12" Chloropicrin 50 lb 8" Vapam 75 G 4" 23 a 21 ab 22 ab 22 a 24 a 22 a 21 a 5 Pic Chlor60 8" Pic at 100 lb and TII 12G Vapam 75 G 4" 21 a 19 ab 21 ab 23 a 22 ab 22 a 22 ab 22 a 22 a </td <td>No. Name R</td> <td>Rate Unit</td> <td>22</td> <td>23</td> <td>24</td> <td>25</td> <td>26</td> <td>27</td> <td>28</td>	No. Name R	Rate Unit	22	23	24	25	26	27	28
Vapan 75 G 4" 20 20 22 a 21 ab 23 a 25 a 23 a 22 a 2 Telone II 12 G 12" Chloropicrin 100 lb 8" Vapam 75 G 4" 20 a 22 ab 21 ab 23 a 25 a 23 a 22 a 3 Telone II 12 G 12" Vapam 75 G 4" 23 a 19 ab 19 ab 21 a 21 ab 19 a 21 a 4 Telone II 12 G 12" Vapam 75 G 4" 23 a 21 ab 22 ab 22 a 24 a 22 a 21 a 5 Pic Chlor60 8" Vapam 75 G 4" 21 a 19 ab 21 ab 23 a 22 ab 22 a	1 Telone II 12 G 12 "		21 a	21 ab	21 ab	20 a	19 ab	22 a	20 a
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Chloropicrin 150 lb 8"								
Chloropicrin 100 lb 8" Vapam 75 G 4" 23 a 19 ab 19 ab 21 a 21 ab 19 ab 21 a 3 Telone II 12 G 12" Chloropicrin 75 lb 8" Vapam 75 G 4" 23 a 19 ab 19 ab 21 a 21 ab 21 ab 19 ab 21 a 21 ab 21 a 21 a 4 Telone II 12 G 12" Vapam 75 G 4" 23 a 21 ab 22 ab 22 a 24 a 22 a 21 a 5 Pic Chlor60 8" Vapam 75 G 4" 21 a 19 ab 21 ab 23 a 22 ab 22 a 22	Vapam 75 G 4"								
Chloropicrin 100 lb 8" Vapam 75 G 4" 23 a 19 ab 19 ab 21 a 21 ab 19 ab 21 a 3 Telone II 12 G 12" Chloropicrin 75 lb 8" Vapam 75 G 4" 23 a 19 ab 19 ab 21 a 21 ab 21 ab 19 ab 21 a 21 ab 21 ab 21 a 4 Telone II 12 G 12" Vapam 75 G 4" 23 a 21 ab 22 ab 22 a 24 a 22 a 21 a 5 Pic Chlor60 8" Vapam 75 G 4" 21 a 19 ab 21 ab 23 a 22 ab 22 a 22	2 Telone II 12 G 12"		20 a	22 ab	21 ab	23 a	25 a	23 a	22 a
Vapam 75 G 4" Image: Child of the second									
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$									
Chloropicrin 75 lb 8" Vapam 75 G 4" 23 a 21 ab 22 ab 22 a 24 a 22 a 21 ab 4 Telone II 12 G 12" Chloropicrin 50 lb 8" Vapam 75 G 4" 23 a 21 ab 22 ab 22 a 24 a 22 a 21 a 5 Pic Chlor60 8" Pic at 100 lb and TII 12G Vapam 75 G 4" 21 a 19 ab 21 ab 23 a 22 a 24 a 22 a 24 a 22 a 24 a			23 a	19 ab	19 ab	21 a	21 ab	19 a	21 a
Vapam 75 G 4" 23 a 21 ab 22 ab 22 a 24 a 22 a 21 a 4 Telone II 12 G 12" Chloropicrin 50 lb 8" Vapam 75 G 4" 23 a 21 ab 22 ab 22 a 24 a 22 a 21 a 5 Pic Chlor60 8" Pic at 100 lb and TII 12G Vapam 75 G 4" 21 a 19 ab 21 ab 23 a 22 a 24 a 22 a 24 a <t< td=""><td></td><td></td><td>_0 u</td><td></td><td>10 40</td><td> u</td><td>2. 6.0</td><td></td><td></td></t<>			_0 u		10 40	u	2. 6.0		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $									
Chloropicrin 50 lb 8" Vapam 75 G 4" Image: Chloropic of the second s	•		23 a	21 ab	22 ah	22 a	24 a	22 a	21 a
Vapam 75 G 4" Image: Chioreon grad with the constraint of the constraint o			20 0	21 00	22 00	22 u	24 0	22 u	21 0
5 Pic Chlor60 8" Pic at 100 lb and TII 12G Vapam 75 G 4" 21 a 19 ab 21 ab 23 a 22 ab 22 a 22 a 6 Pic Chlor60 12" Pic at 100 lb and TII 12G Vapam 75 G 4" 22 a 23 a 24 a 22 a 22 ab 24 a 22 a 22 a 22 a 7 Non-treated 17 a 16 b 15 b 19 a 17 b 19 a 18 b LSD (P=.05) 6.6 6.1 6.4 6.5 4.7 6.4 2.1 Standard Deviation 4.5 4.1 4.3 4.4 3.2 4.3 1.4 CV 21.35 20.62 21.39 20.47 15.01 20.35 6.62 Bartlett's X2 3.98 3.095 7.361 9.572 4.429 2.417 2.19									
Pic at 100 lb and TII 12G Vapam 75 G 4" Image: Constraint of the second			21.0	10. ab	21 ab	22.0	22 ab	22.0	22 0
Vapam 75 G 4" Image: Mark and the second			21 a	19 au	21 au	25 a	22 au	22 a	22 a
6 Pic Chlor60 12" 22 a 23 a 24 a 22 a 22 a 24 a 22 a 22 a 24 a 22									
Pic at 100 lb and TII 12G Vapam 75 G 4"Image: Second seco			00 -		04 -	00 -	00 at	04 -	00 -
Vapam 75 G 4" Image: Marcon Sector Image: Marcon Se			22 a	23 a	24 a	22 a	22 ab	24 a	22 a
7 Non-treated17 a16 b15 b19 a17 b19 a18 bLSD (P=.05)6.66.16.46.54.76.42.1Standard Deviation4.54.14.34.43.24.31.4CV21.3520.6221.3920.4715.0120.356.62Bartlett's X23.983.0957.3619.5724.4292.4172.19									
LSD (P=.05)6.66.16.46.54.76.42.1Standard Deviation4.54.14.34.43.24.31.4CV21.3520.6221.3920.4715.0120.356.62Bartlett's X23.983.0957.3619.5724.4292.4172.19	· · · · · · · · · · · · · · · · · · ·								
Standard Deviation4.54.14.34.43.24.31.4CV21.3520.6221.3920.4715.0120.356.62Bartlett's X23.983.0957.3619.5724.4292.4172.19			17 a	16 b	15 b			19 a	
CV21.3520.6221.3920.4715.0120.356.62Bartlett's X23.983.0957.3619.5724.4292.4172.19				6.1		6.5			2.1
Bartlett's X2 3.98 3.095 7.361 9.572 4.429 2.417 2.19						4.4			1.4
				20.62		-	15.01	20.35	
P(Bartlett's X2) 0.679 0.797 0.289 0.144 0.619 0.878 0.901									2.19
	P(Bartlett's X2)		0.679	0.797	0.289	0.144	0.619	0.878	0.901

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

Column 28: T1 = @AVG([C8].[C27])

						<u> </u>			
Pest Type									
Pest Cod			Har1	Har1	Har2				Har4
Crop Cod	le		CUMSA						
BBCH Sc	ale		BVVT						
Part Rate	d		С	С	С	C	С	С	С
Rating Da			Sep-06-06	Sep-06-06	Sep-08-06	Sep-08-06	Sep-11-06	Sep-11-06	Sep-13-06
Rating Da			fruit/plot						
Rating Ur			#	lb	#	lb	#	lb	#
Assessed By			AD						
	er First/Last Applic.		50	50	52	52	55	55	57
Trt-Eval Ir			50 DA-A	50 DA-A	52 DA-A	52 DA-A	55 DA-A	55 DA-A	57 DA-A
ARM Action									
Trt Trea		Rate							
No. Nam	1e	Rate Unit	29	30	31	32	33	34	35
1 Telo	ne II 12 G 12 "		33 a	20 a	32 a	19 a	77 a	53 a	42 a
Chlo	ropicrin 150 lb 8"								
Vapa	am 75 G 4"								
2 Telo	ne II 12 G 12"		39 a	26 a	24 ab	12 ab	68 ab	47 a	33 ab
Chlo	ropicrin 100 lb 8"								
Vapa	am 75 G 4"								
3 Telo	ne II 12 G 12"		38 a	24 a	34 a	20 a	47 b	32 b	47 a
	ropicrin 75 lb 8"						_		
	am 75 G 4"								
	ne II 12 G 12"		31 a	20 a	29 ab	17 a	63 ab	42 ab	31 ab
	ropicrin 50 lb 8"		01 u	20 4	20 45		00 40	12 00	01 45
	am 75 G 4"								
	Chlor60 8"		30 a	21 a	30 a	18 a	65 ab	45 a	43 a
	at 100 lb and TII 12G		00 a	21 0	00 a	10 4	00 00	40 u	40 u
	am 75 G 4"								
	Chlor60 12"		27 ab	18 a	30 ab	19 a	47 b	31 b	26 ab
	at 100 lb and TII 12G		27 80	10 a	50 ab	15 a	47.0	51.0	20 ab
	am 75 G 4"								
			13 b	7 h	16 b	9 b	40 h	21 h	17 h
7 Non-				7 b			49 b	31 b	17 b
LSD (P=.	/		15.0	10.5	12.9	7.4	21.6	12.0	19.7
	Deviation		10.1	7.1	8.7	5.0	14.6	8.1	13.3
CV			33.78	36.43		30.6	24.51	20.1	39.08
Bartlett's			4.233	4.815	2.681	2.45	11.753	10.436	14.915
P(Bartlett	'S X2)		0.645	0.568	0.848	0.874	0.068	0.107	0.021*

_						<u> </u>			
Pes	t Type								
Pes	t Code		Har4	Har5	Har5	Har6	Har6	Har7	Har7
Cro	p Code		CUMSA						
BBC	CH Scale		BVVT						
Par	Rated		С	C	С	С	С	С	С
Rat	ng Date		Sep-13-06	Sep-16-06	Sep-16-06	Sep-18-06	Sep-18-06	Sep-20-06	Sep-20-06
Rat	ng Data Type		fruit/plot						
Rat	ing Unit		lb	#	lb	#	lb	#	lb
Assessed By			AD						
Days After First/Last Applic.			57	60	60	62	62	64	64
	Eval Interval		57 DA-A	60 DA-A	60 DA-A	62 DA-A	62 DA-A	64 DA-A	64 DA-A
AR	Action Codes								
Trt	Treatment	Rate							
No.	Name	Rate Unit	36	37	38	39	40	41	42
1	Telone II 12 G 12 "		33 a	22 a	15 ab	41 a	24 a	43 ab	25 ab
	Chloropicrin 150 lb 8"								
	Vapam 75 G 4"								
2	Telone II 12 G 12"		27 ab	18 a	12 ab	41 a	25 a	55 a	31 a
	Chloropicrin 100 lb 8"								
	Vapam 75 G 4"								
3	Telone II 12 G 12"		36 a	22 a	16 a	43 a	25 a	36 bc	19 bc
Ũ	Chloropicrin 75 lb 8"		00 0	~			20 0		
	Vapam 75 G 4"								
4	Telone II 12 G 12"		23 ab	16 a	10 ab	41 a	24 a	44 ab	23 abc
- T	Chloropicrin 50 lb 8"		20 00	10 0	10 45	-, τ u	24 u	-+- ub	20 000
	Vapam 75 G 4"								
5	Pic Chlor60 8"		33 a	14 a	10 ab	36 a	22 a	48 ab	27 ab
5	Pic at 100 lb and TII 12G		55 a	14 a	10 ab	30 a	22 a	40 ab	27 ab
	Vapam 75 G 4"								
e	Pic Chlor60 12"		21 ab	16 a	11 ab	40 a	23 a	27 oho	21 abc
0	Pic at 100 lb and TII 12G		∠ i ab	io a		40 a	25 a	37 abc	
	Vapam 75 G 4"								
-	-		10.1	10			10		10
	Non-treated		12 b	10 a	7 b	26 a	16 a	23 c	13 c
	0 (P=.05)		15.3	10.9	7.8	21.1	11.2	17.2	10.3
	ndard Deviation		10.3	7.3	5.2	14.2	7.5	11.6	6.9
CV			39.05	43.7	44.7	37.12	32.94	28.47	30.21
	lett's X2		14.446	9.61	7.574	9.85	7.579	11.682	18.02
P(B	artlett's X2)		0.025*	0.142	0.271	0.131	0.271	0.069	0.006*

	_			<u>. g.a</u>
Pest Type				
Pest Code	Har1-3	Har1-3		Har1-7
Crop Code	CUMSA			CUMSA
BBCH Scale	BVVT	BVVT	BVVT	BVVT
Part Rated	C	C C	C	C
Rating Date	Sep-20-06		Sep-20-06	
Rating Data Type	fruit/plot #		fruit/plot #	fruit/plot
Rating Unit Assessed By	#	lb	#	lb
Days After First/Last Applic.	64	64	64	64
Trt-Eval Interval	64 DA-A	64 DA-A	64 DA-A	64 DA-A
ARM Action Codes	T2	T3	T4	T5
Trt Treatment Rate				
No. Name Rate Unit	43	44	45	46
1 Telone II 12 G 12 "	141 a	92 a	289 a	189 a
Chloropicrin 150 lb 8"				
Vapam 75 G 4"				
2 Telone II 12 G 12"	130 ab	85 ab	277 ab	181 a
Chloropicrin 100 lb 8"				
Vapam 75 G 4"				
3 Telone II 12 G 12"	119 ab	76 bc	266 ab	173 ab
Chloropicrin 75 lb 8"				
Vapam 75 G 4"				
4 Telone II 12 G 12"	123 ab	79 abc	255 b	160 bc
Chloropicrin 50 lb 8"				
Vapam 75 G 4"				
5 Pic Chlor60 8"	124 ab	84 ab	264 ab	176 ab
Pic at 100 lb and TII 12G				
Vapam 75 G 4"				
6 Pic Chlor60 12"	104 bc	68 c	224 c	145 c
Pic at 100 lb and TII 12G				
Vapam 75 G 4"	70 -	40 -1	450 1	0.4 -1
7 Non-treated	78 c	46 d	153 d	94 d
LSD (P=.05)	29.1	13.7	29.3	15.9
Standard Deviation CV	19.6 16.76	9.2 12.18	19.7 8.01	10.7 6.71
Bartlett's X2	16.76	12.18	8.01 12.02	17.755
P(Bartlett's X2)	0.029*	0.122	0.062	0.007*
	0.020	0.122	0.002	0.007

AOV Means Table Page 9 of 13

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

Column 43: T2 = [C29]+[C31]+[C33]

Column 44: T3 = [C30]+[C32]+[C34]

Column 45: T4 = [C29]+[C31]+[C33]+[C35]+[C37]+[C39]+[C41]

Column 46: T5 = [C30]+[C32]+[C34]+[C36]+[C38]+[C40]+[C42]

Dete	erming the most eff	ective rat	ate of Chloropicrin in a Telone/Pic/Vapam system.
Trial ID. IT-	a63-06	D	otocol ID:
Trial ID: Ve		-	otocol ID: Director: Stanley Culpepper
LUCALIUII: PO	Tatu (J141)		estigator: Stanley Culpepper
	~		
		aı Trial	Information
-	Stanley Culpepper		Title: Ext. Weed Science
	Univ. of Georgia	- ·-	
Postal Code:	31794	E-mail:	
Investigator	Stanley Culpepper		Title: Ext. Weed Science
-			
Postal Code:	31794	E-mail.	
	·		
Keywords:			
	Tr	rial Locat:	
City: Ty:	-		Trial Status: completed
State/Prov.: GA			Trial Reliability: good
Postal Code: 31			Initiation Date: Jul-18-06
Country: USA			Planned Completion Date:
			Longitude of LL Corner °:
			Angle y-axis to North °:
-		_	
Directions: Conducted Under	GLP:	Official '	Trial Code:
Conducted Under	—		Trial Code:
Guideline			Description
1.			
····			
_ Objectives:		_	
Conclusions:			
Cooperation	Coope	erator/Lan	
Cooperator: _			Country:
Organization: _ Address 1:			Phone No: Fax No:
Address 1: _ Address 2:			Fax NU;
Address 2: _ City:			
City: _ State/Prov:			
		_ ail:	
Postal Code: _	<u> </u>	<u>атт:</u>	

	Crop Description
Crop 1: CUMSA Cucumis sati	vus Cucumber
Variety: Thunder	Description:
BBCH Scale: BVVT	Planting Date: Aug-04-06
Planting Method: transplan	t Rate, Unit: 1 foot
Depth, Unit: 1 in	Perennial Age, Unit:
Row Spacing, Unit: 6 fee	t Spacing Within Row, Unit: 12 inch
Seed Bed: bedded	Soil Temperature, Unit: 93 F
Soil Moisture: 17%, perfe	ect Emergence Date:
Harvest Date:	Harvest Equipment:
Harvested Width, Unit:	Harvested Length, Unit:
% Standard Moisture:	Moisture Meter:
Weighing Equipment:	

Pest 1 Type: W Code: CYPRO Common Name: Cyperus rotundus		Pest Description
	Pest 1 Type: W Code:	CYPRO
	Common Name:	Cyperus rotundus
Description: Purple nutsedge	Description:	Purple nutsedge

		Site	e and Design	
Plot Width, Unit:	б	FT	Site Type:	Research Station
Plot Length, Unit:	50	FT	Tillage Type:	Conventional
Replications:	4		Study Design:	Randomized Complete Block
% Slope:			Soil Drainage:	

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

		Maintenance						
		Maintenance	Form	Form	Form		Rate	Tank
No.	Date	Treatment Name	Conc	Unit	Туре	Rate	Unit	Mix
1.								

Comment:

Field Prep./Maintenance:

Soil Description

Description N	lame:		-	
% Sand: 94	% OM:	1.3	Texture:	sand
% Silt: 2	pH:	6.4	Soil Name:	Tifton sandy loam
% Clay: 4	CEC:		Fert. Level:	
Analyzed By:				

Additional	Measured Elemen	ts
Element	Quantity	Unit

M	loisture Conditions		
Overall Moisture Conditions: da	lrip irrigation		
Closest Weather Station:		Distance:	Unit:

	Date	Time	Amount	Unit	Туре	Interval	Unit
1.							

Application Description

	A
Application Date:	Jul-18-06
Time of Day:	4 pm
Application Method:	banded
Application Timing:	preplant
Application Placement:	in bed
Applied By:	
Air Temperature, Unit:	98 F
% Relative Humidity:	48
Wind Velocity, Unit:	3 mph
Wind Direction:	
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temperature, Unit:	93 F
Soil Moisture:	17%,moist
% Cloud Cover:	20
Next Rain Occurred On:	

Crop Stage At Each Application

	CIOP Deage 1
	A
Crop 1 Code, BBCH Scale:	CUMSA BVVT
Stage Scale Used:	BBCH
Stage Majority, Percent:	not plan 100
Stage Minimum, Percent:	not plan 100
Stage Maximum, Percent:	not plan 100
Diameter, Unit:	0 in
Height, Unit:	0 in
Height Minimum, Maximum:	0 0

Pest Stage At Each Application

	Fest Stage At
	A
Pest 1 Code, Disc., Scale:	CYPRO W .
Stage Majority, Percent:	not up 100
Stage Minimum, Percent:	not up 100
Stage Maximum, Percent:	not up 100
Diameter, Unit:	0 in
Height, Unit:	0 in
Height Minimum, Maximum:	0 0
Density, Unit:	0
Coverage, Unit:	

Application Equipment	:
-----------------------	---

	А
Appl. Equipment:	see
Operating Pressure, Unit:	comments PSI
Nozzle Type:	
Nozzle Size:	
Nozzle Spacing, Unit:	
Nozzles/Row:	
Nozzle Calibration, Unit:	
Band Width, Unit:	
Boom ID:	
Boom Length, Unit:	
Boom Height, Unit:	
Ground Speed, Unit:	
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	
Spray Volume, Unit:	
Mix Size, Unit:	
Spray pH:	
Propellant:	
Tank Mix (Y/N):	

Equipment Comment:

Trt No	Treatment	Application	Comment
Date	By	Notes	3
Date	Ву	Devia	ations

Reasons: