

University of Georgia

Determining the most effective rate of Chloropicrin in a Telone/Pic/Vapam system.

Trial ID: Veg63-06	Protocol ID:
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 No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Growth Unit	Appl Code	Amt Product to Measure	Plot No. By Rep			
									1	2	3	4
1	Telone II 12 G 12" Chloropicrin 150 lb 8" Vapam 75 G 4"						A A A		101	205	304	407
2	Telone II 12 G 12" Chloropicrin 100 lb 8" Vapam 75 G 4"						A A A		102	207	302	404
3	Telone II 12 G 12" Chloropicrin 75 lb 8" Vapam 75 G 4"						A A A		103	206	303	403
4	Telone II 12 G 12" Chloropicrin 50 lb 8" Vapam 75 G 4"						A A A		104	201	306	402
5	Pic Chlor60 8" Pic at 100 lb and TII 12G Vapam 75 G 4"						A A A		105	202	307	405
6	Pic Chlor60 12" Pic at 100 lb and TII 12G Vapam 75 G 4"						A A A		106	203	305	406
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
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* '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.

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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.

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Trial ID: Veg63-06

Protocol ID:

Location: Ponder farm (5141)

Study Director: Stanley Culpepper

Investigator: Stanley Culpepper

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	CYPRO	CYPRO	CYPRO	CYPRO	CYPRO	CYPRO	CYPRO		
Crop Code									
BBCH Scale									
Part Rated	P	P	P	P	P	P	P		
Rating Date	Aug-04-06	Aug-24-06	Sep-14-06	Sep-30-06	Jul-26-06	Aug-02-06	Sep-08-06		
Rating Data Type	control	control	control	control	emerged pla	emerged pla	emerged pla		
Rating Unit	percent	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 No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit							
			1	2	3	4	5	6	7
1	Telone II 12 G 12" Chloropicrin 150 lb 8" Vapam 75 G 4"		93 a	84 a	84 a	84 a	4 b	12 c	29 c
2	Telone II 12 G 12" Chloropicrin 100 lb 8" Vapam 75 G 4"		89 a	83 a	82 a	79 a	4 b	15 c	33 bc
3	Telone II 12 G 12" Chloropicrin 75 lb 8" Vapam 75 G 4"		90 a	86 a	82 a	76 a	3 b	16 c	33 bc
4	Telone II 12 G 12" Chloropicrin 50 lb 8" Vapam 75 G 4"		88 a	85 a	83 a	74 a	2 b	15 c	35 bc
5	Pic Chlor60 8" Pic at 100 lb and TII 12G Vapam 75 G 4"		93 a	86 a	83 a	76 a	1 b	7 c	21 c
6	Pic Chlor60 12" Pic at 100 lb and TII 12G Vapam 75 G 4"		81 b	60 b	60 b	48 b	14 b	56 b	101 b
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	64.4
Standard Deviation			4.1	4.9	3.6	6.6	10.6	23.9	43.4
CV			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*

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

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Pest Type	Plant 1	Plant 2	Plant 3	Plant 4	Plant 5	Plant 6	Plant 7	
Pest Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	
Crop Code	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	
BBCH Scale	C	C	C	C	C	C	C	
Part Rated	Aug-21-06	Aug-21-06	Aug-21-06	Aug-21-06	Aug-21-06	Aug-21-06	Aug-21-06	
Rating Date	runner lgth	runner lgth	runner lgth	runner lgth	runner lgth	runner lgth	runner lgth	
Rating Data Type	cm	cm	cm	cm	cm	cm	cm	
Rating Unit	AD	AD	AD	AD	AD	AD	AD	
Assessed By	34	34	34	34	34	34	34	
Days After First/Last Applic.	34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A	
Trt-Eval Interval	ARM Action Codes							
Trt Treatment	Rate							
No. Name	Rate Unit	8	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 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
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	20 ab
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
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 Vapam 75 G 4 "		24 a	23 ab	23 a	17 a	22 a	22 a	25 a
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	5.4
Standard Deviation		3.0	3.2	4.1	4.1	4.5	3.7	3.7
CV		14.37	16.02	19.66	21.1	21.15	17.21	16.89
Bartlett's X2		9.602	4.497	8.327	8.812	3.412	4.366	4.85
P(Bartlett's X2)		0.142	0.61	0.215	0.184	0.756	0.627	0.563

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

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Pest Type	Plant 8	Plant 9	Plant 10	Plant 11	Plant 12	Plant 13	Plant 14	
Pest Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	
Crop Code	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	
BBCH Scale	C	C	C	C	C	C	C	
Part Rated	Aug-21-06	Aug-21-06	Aug-21-06	Aug-21-06	Aug-21-06	Aug-21-06	Aug-21-06	
Rating Date	runner lgth	runner lgth	runner lgth	runner lgth	runner lgth	runner lgth	runner lgth	
Rating Data Type	cm	cm	cm	cm	cm	cm	cm	
Rating Unit	AD	AD	AD	AD	AD	AD	AD	
Assessed By	34	34	34	34	34	34	34	
Days After First/Last Applic.	34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A	
Trt-Eval Interval	ARM Action Codes							
Trt Treatment	Rate							
No. Name	Rate Unit	15	16	17	18	19	20	21
1 Telone II 12 G 12 " Chloropicrin 150 lb 8 " Vapam 75 G 4 "		22 ab	22 a	20 a	22 ab	19 ab	20 ab	22 ab
2 Telone II 12 G 12 " Chloropicrin 100 lb 8 " Vapam 75 G 4 "		22 ab	22 a	21 a	22 ab	25 a	23 ab	24 a
3 Telone II 12 G 12 " Chloropicrin 75 lb 8 " Vapam 75 G 4 "		22 ab	23 a	22 a	20 ab	23 ab	22 ab	22 ab
4 Telone II 12 G 12 " Chloropicrin 50 lb 8 " Vapam 75 G 4 "		20 ab	19 a	20 a	22 ab	22 ab	22 ab	20 ab
5 Pic Chlor60 8 " Pic at 100 lb and TII 12G Vapam 75 G 4 "		21 ab	25 a	23 a	22 ab	20 ab	23 ab	21 ab
6 Pic Chlor60 12 " Pic at 100 lb and TII 12G Vapam 75 G 4 "		24 a	20 a	22 a	23 a	24 ab	25 a	20 ab
7 Non-treated		17 b	19 a	19 a	18 b	18 b	18 b	17 b
LSD (P=.05)		5.2	6.0	5.3	4.6	6.0	4.7	5.6
Standard Deviation		3.5	4.1	3.6	3.1	4.0	3.2	3.8
CV		16.9	19.05	17.15	14.72	18.63	14.59	18.22
Bartlett's X2		0.309	5.739	3.827	6.009	10.001	6.268	5.978
P(Bartlett's X2)		0.999	0.453	0.70	0.422	0.125	0.394	0.426

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

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Pest Type	Plant 15	Plant 16	Plant 17	Plant 18	Plant 19	Plant 20	Avg20pla	
Pest Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	
Crop Code	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	
BBCH Scale	C	C	C	C	C	C	C	
Part Rated	Aug-21-06	Aug-21-06	Aug-21-06	Aug-21-06	Aug-21-06	Aug-21-06	Aug-21-06	
Rating Date	runner lgth	runner lgth	runner lgth	runner lgth	runner lgth	runner lgth	runner lgth	
Rating Data Type	cm	cm	cm	cm	cm	cm	cm	
Rating Unit	AD	AD	AD	AD	AD	AD	AD	
Assessed By	34	34	34	34	34	34	34	
Days After First/Last Applic.	34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A	
Trt-Eval Interval							T1	
ARM Action Codes								
Trt Treatment	Rate							
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	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 " 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 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
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
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])

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Pest Type	Har1	Har1	Har2	Har2	Har3	Har3	Har4	
Pest Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	
Crop Code	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	
BBCH Scale	C	C	C	C	C	C	C	
Part Rated	Sep-06-06	Sep-06-06	Sep-08-06	Sep-08-06	Sep-11-06	Sep-11-06	Sep-13-06	
Rating Date	fruit/plot	fruit/plot	fruit/plot	fruit/plot	fruit/plot	fruit/plot	fruit/plot	
Rating Data Type	#	lb	#	lb	#	lb	#	
Rating Unit	AD	AD	AD	AD	AD	AD	AD	
Assessed By	50	50	52	52	55	55	57	
Days After First/Last Applic.	50 DA-A	50 DA-A	52 DA-A	52 DA-A	55 DA-A	55 DA-A	57 DA-A	
Trt-Eval Interval	ARM Action Codes							
Trt Treatment	Rate							
No. Name	Rate Unit	29	30	31	32	33	34	35
1 Telone II 12 G 12 " Chloropicrin 150 lb 8" Vapam 75 G 4"		33 a	20 a	32 a	19 a	77 a	53 a	42 a
2 Telone II 12 G 12 " Chloropicrin 100 lb 8" Vapam 75 G 4"		39 a	26 a	24 ab	12 ab	68 ab	47 a	33 ab
3 Telone II 12 G 12 " Chloropicrin 75 lb 8" Vapam 75 G 4"		38 a	24 a	34 a	20 a	47 b	32 b	47 a
4 Telone II 12 G 12 " Chloropicrin 50 lb 8" Vapam 75 G 4"		31 a	20 a	29 ab	17 a	63 ab	42 ab	31 ab
5 Pic Chlor60 8" Pic at 100 lb and TII 12G Vapam 75 G 4"		30 a	21 a	30 a	18 a	65 ab	45 a	43 a
6 Pic Chlor60 12" Pic at 100 lb and TII 12G Vapam 75 G 4"		27 ab	18 a	30 ab	19 a	47 b	31 b	26 ab
7 Non-treated		13 b	7 b	16 b	9 b	49 b	31 b	17 b
LSD (P=.05)		15.0	10.5	12.9	7.4	21.6	12.0	19.7
Standard Deviation		10.1	7.1	8.7	5.0	14.6	8.1	13.3
CV		33.78	36.43	31.39	30.6	24.51	20.1	39.08
Bartlett's X2		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*

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

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Pest Type	Har4	Har5	Har5	Har6	Har6	Har7	Har7	
Pest Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	
Crop Code	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	
BBCH Scale	C	C	C	C	C	C	C	
Part Rated	Sep-13-06	Sep-16-06	Sep-16-06	Sep-18-06	Sep-18-06	Sep-20-06	Sep-20-06	
Rating Date	fruit/plot	fruit/plot	fruit/plot	fruit/plot	fruit/plot	fruit/plot	fruit/plot	
Rating Data Type	lb	#	lb	#	lb	#	lb	
Rating Unit	AD	AD	AD	AD	AD	AD	AD	
Assessed By	57	60	60	62	62	64	64	
Days After First/Last Applic.	57 DA-A	60 DA-A	60 DA-A	62 DA-A	62 DA-A	64 DA-A	64 DA-A	
Trt-Eval Interval	ARM Action Codes							
Trt Treatment	Rate							
No. Name	Rate Unit	36	37	38	39	40	41	42
1 Telone II 12 G 12 " Chloropicrin 150 lb 8 " Vapam 75 G 4 "		33 a	22 a	15 ab	41 a	24 a	43 ab	25 ab
2 Telone II 12 G 12 " Chloropicrin 100 lb 8 " Vapam 75 G 4 "		27 ab	18 a	12 ab	41 a	25 a	55 a	31 a
3 Telone II 12 G 12 " Chloropicrin 75 lb 8 " Vapam 75 G 4 "		36 a	22 a	16 a	43 a	25 a	36 bc	19 bc
4 Telone II 12 G 12 " Chloropicrin 50 lb 8 " Vapam 75 G 4 "		23 ab	16 a	10 ab	41 a	24 a	44 ab	23 abc
5 Pic Chlor60 8 " Pic at 100 lb and TII 12G Vapam 75 G 4 "		33 a	14 a	10 ab	36 a	22 a	48 ab	27 ab
6 Pic Chlor60 12 " Pic at 100 lb and TII 12G Vapam 75 G 4 "		21 ab	16 a	11 ab	40 a	23 a	37 abc	21 abc
7 Non-treated		12 b	10 a	7 b	26 a	16 a	23 c	13 c
LSD (P=.05)		15.3	10.9	7.8	21.1	11.2	17.2	10.3
Standard 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
Bartlett's X2		14.446	9.61	7.574	9.85	7.579	11.682	18.02
P(Bartlett's X2)		0.025*	0.142	0.271	0.131	0.271	0.069	0.006*

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

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Pest Type				
Pest Code	Har1-3	Har1-3	Har1-7	Har1-7
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA
BBCH Scale	BVVT	BVVT	BVVT	BVVT
Part Rated	C	C	C	C
Rating Date	Sep-20-06	Sep-20-06	Sep-20-06	Sep-20-06
Rating Data Type	fruit/plot	fruit/plot	fruit/plot	fruit/plot
Rating Unit	#	lb	#	lb
Assessed By				
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 No.				
Treatment Name				
Rate				
Rate Unit				
	43	44	45	46
1 Telone II 12 G 12" Chloropicrin 150 lb 8" Vapam 75 G 4"	141 a	92 a	289 a	189 a
2 Telone II 12 G 12" Chloropicrin 100 lb 8" Vapam 75 G 4"	130 ab	85 ab	277 ab	181 a
3 Telone II 12 G 12" Chloropicrin 75 lb 8" Vapam 75 G 4"	119 ab	76 bc	266 ab	173 ab
4 Telone II 12 G 12" Chloropicrin 50 lb 8" Vapam 75 G 4"	123 ab	79 abc	255 b	160 bc
5 Pic Chlor60 8" Pic at 100 lb and TII 12G Vapam 75 G 4"	124 ab	84 ab	264 ab	176 ab
6 Pic Chlor60 12" Pic at 100 lb and TII 12G Vapam 75 G 4"	104 bc	68 c	224 c	145 c
7 Non-treated	78 c	46 d	153 d	94 d
LSD (P=.05)	29.1	13.7	29.3	15.9
Standard Deviation	19.6	9.2	19.7	10.7
CV	16.76	12.18	8.01	6.71
Bartlett's X2	14.072	10.056	12.02	17.755
P(Bartlett's X2)	0.029*	0.122	0.062	0.007*

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]

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Trial ID: Veg63-06	Protocol ID:
Location: Ponder farm (5141)	Study Director: Stanley Culpepper
	Investigator: Stanley Culpepper

General Trial Information

Study Director: Stanley Culpepper	Title: Ext. Weed Science
Affiliation: Univ. of Georgia	
Postal Code: 31794	E-mail: _____
Investigator: Stanley Culpepper	Title: Ext. Weed Science
Affiliation: Univ. of Georgia	
Postal Code: 31794	E-mail: _____

Keywords:

Trial Location

City: TyTy	Trial Status: completed
State/Prov.: GA	Trial Reliability: good
Postal Code: 31794	Initiation Date: Jul-18-06
Country: USA	Planned Completion Date: _____
-Latitude of LL Corner °: _____	-Longitude of LL Corner °: _____
Altitude of LL Corner: _____ Unit: _____	Angle y-axis to North °: _____
Map Reference: _____	
Directions:	

Conducted Under GLP: <input type="checkbox"/>	Official Trial Code: _____
Conducted Under GEP: <input type="checkbox"/>	Other Trial Code: _____

	Guideline	Description
1.		

Objectives:

Conclusions:

Cooperator/Landowner

Cooperator: _____	Country: _____
Organization: _____	Phone No: _____
Address 1: _____	Fax No: _____
Address 2: _____	
City: _____	
State/Prov: _____	
Postal Code: _____	E-mail: _____

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

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

Site and Design			
Plot Width, Unit: 6	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								
No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Tank Mix
1.								

Comment:

Field Prep./Maintenance:

Soil Description			
Description Name: _____			
% 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 Elements		
Element	Quantity	Unit

Moisture Conditions		
Overall Moisture Conditions: drip irrigation		
Closest Weather Station: _____	Distance: _____	Unit: _____

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	Date	Time	Amount	Unit	Type	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

	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

	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:	

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Application Equipment

	A
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

Date By Deviations

Reasons: