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Eggplant and pepper response to V-10147 and V-10142 applied topically.

Trial ID: Veg55-05

Study Dir.: Stanley Culpepper

Location: Ponder (5158)

Investigator: Stanley Culpepper

Reps: 3

Plots: 6 by 20 feet

Spray vol: 14.8 gal/ac

Mix size: 1 liters (min .46301)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No. By Rep		
									1	2	3
1	V-10147	0.83	L	0.1	lb ai/a	POST	A	8.14 ml/mx	101	206	302
	NIS		L	0.25	% v/v	POST	A	2.5 ml/mx			
2	V-10147	0.83	L	0.2	lb ai/a	POST	A	16.28 ml/mx	102	204	301
	NIS		L	0.25	% v/v	POST	A	2.5 ml/mx			
3	V-10147	0.83	L	0.4	lb ai/a	POST	A	32.56 ml/mx	103	202	304
	NIS		L	0.25	% v/v	POST	A	2.5 ml/mx			
4	Non-treated								104	203	308
5	V-10142	75	DF	0.1	lb ai/a	POST	A	1.08 g/mx	105	201	306
	NIS		L	0.25	% v/v	POST	A	2.5 ml/mx			
6	V-10142	75	DF	0.2	lb ai/a	POST	A	2.159 g/mx	106	208	303
	NIS		L	0.25	% v/v	POST	A	2.5 ml/mx			
7	V-10142	75	DF	0.4	lb ai/a	POST	A	4.318 g/mx	107	205	307
	NIS		L	0.25	% v/v	POST	A	2.5 ml/mx			
8	Sandea	75	DF	0.5	oz/a	POST	A	0.253 g/mx	108	207	305
	NIS		L	0.25	% v/v	POST	A	2.5 ml/mx			

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Lot Code
71.223	ml	V-10147 0.83 L	
21.873	ml	NIS L	
9.446	g	V-10142 75 DF	
0.316	g	Sandea 75 DF	

* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1 liters (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

* 'Per volume' calculations use spray volume= 14.8 gal/ac, mix size= 1 liters.

Trial Comments

OBJECTIVE: Evaluate eggplant and pepper response to V-10147 and V-10142.

PEPPER VISUAL RESPONSE:

- V-10147 caused severe chlorosis at 9 DAT, regardless of rate. Pepper did visually recover but it took a long time especially at 0.2 and 0.4 lb ai.
- Pepper were much more tolerant of 10142 than 10147; however, 7 to 8% visual chlorosis was still noted with 10142.

PEPPER HEIGHTS (12 to 14 plants were measured each time):

- At 13 and 19 DAT when compared to the control, all rates of V-10147 reduced plant heights. By 43 DAT, these height differences were not detected.
- V-10142 and Sandea did not statistically impact pepper heights.

PEPPER YIELDS (US Fancy fruit were harvested 3 times):

- V-10147 at 0.4 lb ai reduced the number of fruit harvest for harvest 1, 2, and when averaging over all harvest dates. It also reduced the weight of fruit harvested on harvest 1 and when averaging over all harvest dates.
- V-10147 at 0.2 lb ai reduced the number of fruit harvested on harvest 2 and when averaging over all harvest dates.
- Sandea reduced the number of total fruit and their weights harvested.
- V-10142 did not impact yield.

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EGGPLANT VISUAL RESPONSE:

1. Eggplant responded more similarly to 10142 and 10147 than did pepper.
2. Visual chlorosis and stunting by 0.1 lb ai of either product ranged from 8 to 13% at 9 to 30 DAT. Higher rates of each product tended to cause more injury.

EGGPLANT HEIGHTS (5 plants per plot were measured each time):

1. At 7 and 13 DAT when compared to the control, all treatments reduced plant heights. The trends were also obvious at 19 DAT.
2. By 43 DAT, height differences were no longer detectable.

EGGPLANT YIELDS (harvested 5 time):

1. Individual harvest dates were too variable to detect differences.
2. Averaged over all harvest dates and compared to the control, V-10142 and Sandea produced less total fruit than the control.
3. Averaged over all harvest dates and compared to the control, V-10142 produced less total fruit weight than the control.

PURPLE NUTSEDGE RESPONSE:

1. V-10147 was more effective than 10142 in controlling nutsedge, especially late in the season.
2. V-10142 at 0.1 lb ai provided only 60% control late season.
3. Sandea provided excellent late-season control.

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Eggplant and pepper response to V-10147 and V-10142 applied topically.

Trial ID: Veg55-05
Location: Ponder (5158)

Study Dir.: Stanley Culpepper
Investigator: Stanley Culpepper

Weed Code	CPSAN	CPSAN	CPSAN	SOLME	SOLME	SOLME	CYPRO	CYPRO		
Crop Code	injury	injury	injury	injury	injury	injury	control	control		
Rating Data Type	percent	percent	percent	percent	percent	percent	percent	percent		
Rating Unit										
Rating Date	Aug-27-05	Sep-17-05	Sep-24-05	Aug-27-05	Sep-17-05	Sep-24-05	Aug-27-05	Sep-17-05		
Trt-Eval Interval	9 DA-A	30 DA-A	37 DA-A	9 DA-A	30 DA-A	37 DA-A	9 DA-A	30 DA-A		
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit								
			1	2	3	4	5	6		
			7	8						
1	V-10147 NIS	0.1 lb ai/a 0.25 % v/v	20	7	2	8	10	8	63	75
2	V-10147 NIS	0.2 lb ai/a 0.25 % v/v	30	22	0	23	18	12	67	90
3	V-10147 NIS	0.4 lb ai/a 0.25 % v/v	38	22	3	33	22	17	60	92
4	Non-treated		0	0	0	0	0	0	0	0
5	V-10142 NIS	0.1 lb ai/a 0.25 % v/v	7	3	3	13	11	3	67	70
6	V-10142 NIS	0.2 lb ai/a 0.25 % v/v	7	3	7	21	14	7	70	68
7	V-10142 NIS	0.4 lb ai/a 0.25 % v/v	7	5	7	22	18	7	75	78
8	Sandea NIS	0.5 oz/a 0.25 % v/v	8	7	5	22	15	13	75	95
LSD (P=.05)			10.9	9.8	9.6	8.6	8.8	7.1	15.5	8.2
Standard Deviation			6.2	5.6	5.5	4.9	5.0	4.1	8.9	4.7
CV			42.73	65.29	164.07	27.44	37.17	48.22	14.86	6.63

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

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Weed Code	CYPRO	plant 1	plant 2	plant 3	plant 4	plant 5	plant 6	plant 7			
Crop Code		CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN			
Rating Data Type	control	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	percent	cm	cm	cm	cm	cm	cm	cm			
Rating Date	Sep-24-05	Aug-25-05	Aug-25-05	Aug-25-05	Aug-25-05	Aug-25-05	Aug-25-05	Aug-25-05			
Trt-Eval Interval	37 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A			
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Unit	9	10	11	12	13	14	15	16
1	V-10147 NIS	0.1 0.25	lb ai/a % v/v	68	21	21	23	20	21	21	21
2	V-10147 NIS	0.2 0.25	lb ai/a % v/v	83	20	20	21	18	20	18	22
3	V-10147 NIS	0.4 0.25	lb ai/a % v/v	87	20	24	18	21	21	24	19
4	Non-treated			0	20	22	23	23	22	22	22
5	V-10142 NIS	0.1 0.25	lb ai/a % v/v	60	22	22	22	21	22	22	20
6	V-10142 NIS	0.2 0.25	lb ai/a % v/v	58	22	23	23	23	24	25	23
7	V-10142 NIS	0.4 0.25	lb ai/a % v/v	77	22	20	21	21	20	18	19
8	Sandea NIS	0.5 0.25	oz/a % v/v	93	23	22	23	24	22	22	20
LSD (P=.05)				12.4	7.4	6.3	5.5	3.5	3.6	5.5	4.9
Standard Deviation				7.1	4.2	3.6	3.1	2.0	2.1	3.2	2.8
CV				10.72	19.79	16.5	14.41	9.39	9.67	14.63	13.36

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

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Weed Code	plant 8	plant 9	plant 10	plant 11	plant 12	plant 13	plant 14	AVG.	
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	plant ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Aug-25-05	Aug-25-05	Aug-25-05	Aug-25-05	Aug-25-05	Aug-25-05	Aug-25-05	Aug-25-05	
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	
ARM Action Codes								T1	
# Subsamples, Dec.									
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
		Unit	Unit	Unit	Unit	Unit	Unit	Unit	
1	V-10147	0.1 lb ai/a	21	25	20	21	22	21	
	NIS	0.25 % v/v							
2	V-10147	0.2 lb ai/a	22	21	21	19	23	20	
	NIS	0.25 % v/v							
3	V-10147	0.4 lb ai/a	22	23	22	21	23	19	
	NIS	0.25 % v/v							
4	Non-treated		25	23	23	19	22	22	
5	V-10142	0.1 lb ai/a	24	22	15	21	23	21	
	NIS	0.25 % v/v							
6	V-10142	0.2 lb ai/a	26	23	21	24	21	22	
	NIS	0.25 % v/v							
7	V-10142	0.4 lb ai/a	12	21	24	23	22	25	
	NIS	0.25 % v/v							
8	Sandea	0.5 oz/a	28	21	24	24	21	18	
	NIS	0.25 % v/v							
LSD (P=.05)			9.6	4.9	9.4	5.8	3.4	5.1	7.9
Standard Deviation			5.5	2.8	5.3	3.3	1.9	2.9	4.5
CV			24.39	12.53	25.05	15.31	8.8	13.83	22.22

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

Column 24: T1 = ([C10]+[C11]+[C12]+[C13]+[C14]+[C15]+[C16]+[C17]+[C18]+[C19]+[C20]+[C21]+[C22]+[C23])/14

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Weed Code	plant 1	plant 2	plant 3	plant 4	plant 5	plant 6	plant 7	plant 8			
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN			
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm			
Rating Date	Aug-31-05	Aug-31-05	Aug-31-05	Aug-31-05	Aug-31-05	Aug-31-05	Aug-31-05	Aug-31-05			
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A			
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Unit	25	26	27	28	29	30	31	32
1	V-10147 NIS	0.1 0.25	lb ai/a % v/v	26	22	23	22	24	25	23	16
2	V-10147 NIS	0.2 0.25	lb ai/a % v/v	23	22	20	22	19	22	19	22
3	V-10147 NIS	0.4 0.25	lb ai/a % v/v	23	22	18	22	23	21	20	22
4	Non-treated			23	29	28	26	27	28	27	29
5	V-10142 NIS	0.1 0.25	lb ai/a % v/v	27	25	24	23	26	23	25	26
6	V-10142 NIS	0.2 0.25	lb ai/a % v/v	26	28	20	26	25	27	27	24
7	V-10142 NIS	0.4 0.25	lb ai/a % v/v	27	24	26	26	25	25	26	19
8	Sandea NIS	0.5 0.25	oz/a % v/v	27	24	23	23	24	23	23	20
LSD (P=.05)				7.5	4.1	4.5	4.7	5.6	6.3	5.5	18.3
Standard Deviation				4.3	2.3	2.6	2.7	3.2	3.6	3.1	10.5
CV				17.04	9.57	11.19	11.28	13.25	14.8	13.18	47.02

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

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Weed Code	plant 9	plant 10	plant 11	plant 12	plant 13	plant 14	AVG	plant 1			
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN			
Rating Data Type	ht	ht	ht	ht	ht	ht	plant ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm			
Rating Date	Aug-31-05	Aug-31-05	Aug-31-05	Aug-31-05	Aug-31-05	Aug-31-05	Aug-31-05	Sep-06-05			
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A	19 DA-A			
ARM Action Codes							T2				
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Unit	33	34	35	36	37	38	39	40
1	V-10147	0.1	lb ai/a	27	23	23	23	23	25	23	28
	NIS	0.25	% v/v								
2	V-10147	0.2	lb ai/a	21	21	20	22	22	24	21	24
	NIS	0.25	% v/v								
3	V-10147	0.4	lb ai/a	24	22	21	24	20	23	22	21
	NIS	0.25	% v/v								
4	Non-treated			29	28	22	24	26	22	26	28
5	V-10142	0.1	lb ai/a	27	29	27	27	27	24	26	28
	NIS	0.25	% v/v								
6	V-10142	0.2	lb ai/a	25	24	25	24	23	28	25	28
	NIS	0.25	% v/v								
7	V-10142	0.4	lb ai/a	26	27	26	26	24	25	25	28
	NIS	0.25	% v/v								
8	Sandea	0.5	oz/a	23	23	26	24	18	27	24	29
	NIS	0.25	% v/v								
LSD (P=.05)				5.2	4.7	5.7	5.5	6.5	5.6	2.4	7.7
Standard Deviation				3.0	2.7	3.3	3.1	3.7	3.2	1.4	4.4
CV				11.77	10.82	13.68	12.88	16.1	12.98	5.67	16.56

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

Column 39: T2 = ((C25)+[C26]+[C27]+[C28]+[C29]+[C30]+[C31]+[C32]+[C33]+[C34]+[C35]+[C36]+[C37]+[C38])/14

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Weed Code	plant 2	plant 3	plant 4	plant 5	plant 6	plant 7	plant 8	plant 9			
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN			
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm			
Rating Date	Sep-06-05	Sep-06-05	Sep-06-05	Sep-06-05	Sep-06-05	Sep-06-05	Sep-06-05	Sep-06-05			
Trt-Eval Interval	19 DA-A	19 DA-A	19 DA-A	19 DA-A	19 DA-A	19 DA-A	19 DA-A	19 DA-A			
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Unit	41	42	43	44	45	46	47	48
1	V-10147 NIS	0.1 0.25	lb ai/a % v/v	25	26	25	27	28	27	23	30
2	V-10147 NIS	0.2 0.25	lb ai/a % v/v	21	23	22	23	22	19	25	25
3	V-10147 NIS	0.4 0.25	lb ai/a % v/v	22	22	24	24	23	20	20	24
4	Non-treated			30	29	32	31	32	29	35	34
5	V-10142 NIS	0.1 0.25	lb ai/a % v/v	29	28	31	31	31	28	28	34
6	V-10142 NIS	0.2 0.25	lb ai/a % v/v	29	18	31	28	27	31	27	29
7	V-10142 NIS	0.4 0.25	lb ai/a % v/v	27	29	29	25	27	28	32	29
8	Sandea NIS	0.5 0.25	oz/a % v/v	28	27	28	29	29	27	32	25
LSD (P=.05)				5.5	10.8	3.5	8.0	5.4	7.0	5.2	7.1
Standard Deviation				3.1	6.2	2.0	4.6	3.1	4.0	3.0	4.1
CV				11.86	24.3	7.26	16.73	11.29	15.3	10.76	14.2

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

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Weed Code	plant 10	plant 11	plant 12	plant 13	plant 14	AVG	plant 1	plant 2	
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	
Rating Data Type	ht	ht	ht	ht	ht	plant ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Sep-06-05	Sep-06-05	Sep-06-05	Sep-06-05	Sep-06-05	Sep-06-05	Sep-30-05	Sep-30-05	
Trt-Eval Interval	19 DA-A	19 DA-A	19 DA-A	19 DA-A	19 DA-A	19 DA-A	43 DA-A	43 DA-A	
ARM Action Codes						T3			
# Subsamples, Dec.									
Trt Treatment									
No. Name Rate Unit	49	50	51	52	53	54	55	56	
1 V-10147 NIS	0.1 lb ai/a 0.25 % v/v	26	24	25	26	19	26	48	53
2 V-10147 NIS	0.2 lb ai/a 0.25 % v/v	28	19	25	26	26	23	52	51
3 V-10147 NIS	0.4 lb ai/a 0.25 % v/v	25	27	27	16	23	23	50	50
4 Non-treated		31	26	30	29	25	30	61	52
5 V-10142 NIS	0.1 lb ai/a 0.25 % v/v	31	33	32	31	31	30	61	67
6 V-10142 NIS	0.2 lb ai/a 0.25 % v/v	30	29	26	27	31	28	56	69
7 V-10142 NIS	0.4 lb ai/a 0.25 % v/v	33	29	25	27	33	29	57	58
8 Sandea NIS	0.5 oz/a 0.25 % v/v	27	31	29	24	31	28	57	56
LSD (P=.05)		4.6	6.7	5.9	8.6	7.0	2.6	15.0	15.6
Standard Deviation		2.6	3.9	3.4	4.9	4.0	1.5	8.6	8.9
CV		9.07	14.13	12.4	18.99	14.62	5.39	15.51	15.66

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

Column 54: T3 = ((C40)+[C41]+[C42]+[C43]+[C44]+[C45]+[C46]+[C47]+[C48]+[C49]+[C50]+[C51]+[C52]+[C53])/14

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Weed Code	plant 3	plant 4	plant 5	plant 6	plant 7	plant 8	plant 9	plant 10			
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN			
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm			
Rating Date	Sep-30-05	Sep-30-05	Sep-30-05	Sep-30-05	Sep-30-05	Sep-30-05	Sep-30-05	Sep-30-05			
Trt-Eval Interval	43 DA-A	43 DA-A	43 DA-A	43 DA-A	43 DA-A	43 DA-A	43 DA-A	43 DA-A			
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Unit	57	58	59	60	61	62	63	64
1	V-10147 NIS	0.1 0.25	lb ai/a % v/v	46	55	56	54	55	58	55	54
2	V-10147 NIS	0.2 0.25	lb ai/a % v/v	51	55	62	48	53	57	59	58
3	V-10147 NIS	0.4 0.25	lb ai/a % v/v	54	55	60	54	65	58	61	53
4	Non-treated			66	56	56	56	60	60	53	46
5	V-10142 NIS	0.1 0.25	lb ai/a % v/v	61	65	58	66	70	65	66	64
6	V-10142 NIS	0.2 0.25	lb ai/a % v/v	54	54	64	58	57	55	51	52
7	V-10142 NIS	0.4 0.25	lb ai/a % v/v	55	52	60	55	63	48	62	53
8	Sandea NIS	0.5 0.25	oz/a % v/v	57	55	64	59	64	58	61	58
LSD (P=.05)				13.6	12.6	11.3	14.5	12.5	14.4	15.5	14.6
Standard Deviation				7.7	7.2	6.4	8.3	7.1	8.2	8.8	8.3
CV				13.92	12.81	10.69	14.6	11.73	14.3	15.08	15.24

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

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Weed Code	plant 11	plant 12	AVG	plant 1	plant 2	plant 3	plant 4	plant 5			
Crop Code	CPSAN	CPSAN	CPSAN	SOLME	SOLME	SOLME	SOLME	SOLME			
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm			
Rating Date	Sep-30-05	Sep-30-05	Sep-30-05	Aug-25-05	Aug-25-05	Aug-25-05	Aug-25-05	Aug-25-05			
Trt-Eval Interval	43 DA-A	43 DA-A	43 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A			
ARM Action Codes			T12								
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Rate Unit	65	66	67	68	69	70	71	72
1	V-10147 NIS	0.1 0.25	lb ai/a % v/v	55	59	54	35	35	38	37	35
2	V-10147 NIS	0.2 0.25	lb ai/a % v/v	53	41	53	35	35	32	30	27
3	V-10147 NIS	0.4 0.25	lb ai/a % v/v	54	56	56	29	27	32	32	29
4	Non-treated			63	60	58	40	42	45	45	42
5	V-10142 NIS	0.1 0.25	lb ai/a % v/v	61	67	64	35	34	37	32	36
6	V-10142 NIS	0.2 0.25	lb ai/a % v/v	64	63	58	30	38	31	33	31
7	V-10142 NIS	0.4 0.25	lb ai/a % v/v	55	57	56	31	32	32	35	30
8	Sandea NIS	0.5 0.25	oz/a % v/v	59	57	59	31	29	30	33	29
LSD (P=.05)				13.0	18.1	6.2	7.7	7.2	8.4	9.3	8.2
Standard Deviation				7.4	10.3	3.5	4.4	4.1	4.8	5.3	4.7
CV				12.78	17.93	6.18	13.2	11.99	13.93	15.4	14.48

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

Column 67: T12 = @AVG([55].[66])

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Weed Code	AVG	plant 1	plant 2	plant 3	plant 4	plant 5	AVG	plant 1	
Crop Code	SOLME	SOLME	SOLME	SOLME	SOLME	SOLME	SOLME	SOLME	
Rating Data Type	plant ht	ht	ht	ht	ht	ht	plant ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Aug-25-05	Aug-31-05	Aug-31-05	Aug-31-05	Aug-31-05	Aug-31-05	Aug-31-05	Sep-06-05	
Trt-Eval Interval	7 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A	19 DA-A	
ARM Action Codes	T4						T5		
# Subsamples, Dec.									
Trt Treatment	Rate								
No. Name	Rate Unit	73	74	75	76	77	78	79	80
1 V-10147	0.1 lb ai/a	36	56	55	56	57	57	56	69
NIS	0.25 % v/v								
2 V-10147	0.2 lb ai/a	32	52	56	51	51	54	53	69
NIS	0.25 % v/v								
3 V-10147	0.4 lb ai/a	30	51	50	51	51	44	49	64
NIS	0.25 % v/v								
4 Non-treated		43	61	65	68	65	62	64	71
5 V-10142	0.1 lb ai/a	35	54	57	56	53	57	55	70
NIS	0.25 % v/v								
6 V-10142	0.2 lb ai/a	32	52	59	51	55	53	54	72
NIS	0.25 % v/v								
7 V-10142	0.4 lb ai/a	32	50	45	53	59	52	52	63
NIS	0.25 % v/v								
8 Sandea	0.5 oz/a	30	51	50	50	49	51	50	66
NIS	0.25 % v/v								
LSD (P=.05)		5.6	8.8	9.9	8.2	8.5	9.6	6.0	8.6
Standard Deviation		3.2	5.0	5.6	4.7	4.9	5.5	3.4	4.9
CV		9.53	9.41	10.35	8.67	8.83	10.22	6.31	7.24

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

Column 73: T4 = ([C68]+[C69]+[C70]+[C71]+[C72])/5

Column 79: T5 = ([C74]+[C75]+[C76]+[C77]+[C78])/5

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Weed Code	plant 2 SOLME	plant 3 SOLME	plant 4 SOLME	plant 5 SOLME	AVG SOLME	plant 1 SOLME	plant 2 SOLME	plant 3 SOLME	
Crop Code	ht	ht	ht	ht	plant ht	ht	ht	ht	
Rating Data Type	cm	cm	cm	cm	cm	cm	cm	cm	
Rating Unit	Sep-06-05	Sep-06-05	Sep-06-05	Sep-06-05	Sep-06-05	Sep-30-05	Sep-30-05	Sep-30-05	
Rating Date	19 DA-A	19 DA-A	19 DA-A	19 DA-A	19 DA-A	43 DA-A	43 DA-A	43 DA-A	
Trt-Eval Interval					T6				
ARM Action Codes									
# Subsamples, Dec.									
Trt Treatment	Rate								
No. Name	Rate Unit	81	82	83	84	85	86	87	88
1 V-10147	0.1 lb ai/a	72	69	73	73	71	112	114	115
NIS	0.25 % v/v								
2 V-10147	0.2 lb ai/a	69	65	65	63	66	111	120	112
NIS	0.25 % v/v								
3 V-10147	0.4 lb ai/a	62	63	61	63	63	109	113	110
NIS	0.25 % v/v								
4 Non-treated		79	82	80	78	78	111	118	112
5 V-10142	0.1 lb ai/a	70	70	71	74	71	119	117	123
NIS	0.25 % v/v								
6 V-10142	0.2 lb ai/a	77	68	64	65	69	108	89	111
NIS	0.25 % v/v								
7 V-10142	0.4 lb ai/a	56	69	74	69	66	109	110	113
NIS	0.25 % v/v								
8 Sandea	0.5 oz/a	65	67	64	64	65	115	111	115
NIS	0.25 % v/v								
LSD (P=.05)		12.3	10.7	10.7	7.7	7.6	14.1	32.4	9.3
Standard Deviation		7.0	6.1	6.1	4.4	4.3	8.1	18.5	5.3
CV		10.23	8.85	8.85	6.38	6.31	7.22	16.59	4.67

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

Column 85: T6 = ([C80]+[C81]+[C82]+[C83]+[C84])/5

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Weed Code	plant 4	plant 5	AVG	harv 1	harv 1	harv 2	harv 2	harv 3	
Crop Code	SOLME	SOLME	SOLME	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	
Rating Data Type	ht	ht	plant ht	US Fancy	US Fancy	US Fancy	US Fancy	US Fancy	
Rating Unit	cm	cm	cm	#	lbs	#	lbs	#	
Rating Date	Sep-30-05	Sep-30-05	Sep-30-05	Oct-05-05	Oct-05-05	Oct-12-05	Oct-12-05	Oct-20-05	
Trt-Eval Interval	43 DA-A	43 DA-A	43 DA-A	48 DA-A	48 DA-A	55 DA-A	55 DA-A	63 DA-A	
ARM Action Codes			T7						
# Subsamples, Dec.									
Trt Treatment									
No. Name Rate Unit	89	90	91	92	93	94	95	96	
1 V-10147 NIS	0.1 lb ai/a 0.25 % v/v	118	112	114	10	4	8	4	6
2 V-10147 NIS	0.2 lb ai/a 0.25 % v/v	114	107	113	10	5	7	3	3
3 V-10147 NIS	0.4 lb ai/a 0.25 % v/v	109	104	109	6	2	3	1	4
4 Non-treated		116	112	114	13	5	12	4	6
5 V-10142 NIS	0.1 lb ai/a 0.25 % v/v	115	114	118	12	5	9	4	8
6 V-10142 NIS	0.2 lb ai/a 0.25 % v/v	115	114	107	13	5	9	4	8
7 V-10142 NIS	0.4 lb ai/a 0.25 % v/v	120	109	112	14	6	11	4	7
8 Sandea NIS	0.5 oz/a 0.25 % v/v	109	111	112	11	5	5	2	3
LSD (P=.05)		9.8	14.9	8.4	3.8	2.0	5.0	2.1	5.2
Standard Deviation		5.6	8.5	4.8	2.2	1.1	2.8	1.2	3.0
CV		4.89	7.7	4.25	19.59	24.24	35.19	39.29	50.97

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

Column 91: T7 = ([C86]+[C87]+[C88]+[C89]+[C90])/5

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Weed Code	harv 3 CPSAN	Total CPSAN	Total CPSAN	harv 1 SOLME	harv 1 SOLME	harv 2 SOLME	harv 2 SOLME	harv 3 SOLME		
Crop Code	US Fancy	US Fancy	US Fancy	fruit	fruit	fruit	fruit	fruit		
Rating Data Type	lbs	#	lbs	#	lbs	#	lbs	#		
Rating Unit	Oct-20-05	Oct-28-05	Oct-28-05	Sep-23-05	Sep-23-05	Sep-28-05	Sep-28-05	Oct-05-05		
Rating Date	63 DA-A	71 DA-A	71 DA-A	36 DA-A	36 DA-A	41 DA-A	41 DA-A	48 DA-A		
Trt-Eval Interval		T8	T9							
ARM Action Codes		1	1							
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit	Unit	Unit	Unit	Unit	Unit	Unit		
		97	98	99	100	101	102	103		
		104								
1	V-10147 NIS	0.1 lb ai/a 0.25 % v/v	2	24.7	10.0	3	2	4	5	3
2	V-10147 NIS	0.2 lb ai/a 0.25 % v/v	1	20.0	8.8	3	2	3	3	4
3	V-10147 NIS	0.4 lb ai/a 0.25 % v/v	1	12.7	4.9	1	0	6	6	1
4	Non-treated		2	31.3	12.0	3	2	7	9	5
5	V-10142 NIS	0.1 lb ai/a 0.25 % v/v	3	29.7	12.0	4	3	5	6	5
6	V-10142 NIS	0.2 lb ai/a 0.25 % v/v	3	31.0	12.0	3	2	3	4	4
7	V-10142 NIS	0.4 lb ai/a 0.25 % v/v	2	32.0	12.4	2	1	5	6	3
8	Sandea NIS	0.5 oz/a 0.25 % v/v	1	18.3	7.3	1	1	1	2	4
LSD (P=.05)			1.9	9.09	3.75	2.3	1.4	3.9	4.2	2.9
Standard Deviation			1.1	5.19	2.14	1.3	0.8	2.2	2.4	1.7
CV			51.01	20.79	21.59	54.27	50.41	51.48	45.95	43.97

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

Column 98: T8 = [C92]+[C94]+[C96]

Column 99: T9 = [C93]+[C95]+[C97]

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Weed Code	harv 3	harv 4	harv 4	harv 5	harv 5	Total	Total		
Crop Code	SOLME	SOLME	SOLME	SOLME	SOLME	SOLME	SOLME		
Rating Data Type	fruit	fruit	fruit	fruit	fruit	fruit	fruit		
Rating Unit	lbs	#	lbs	#	lbs	#	lbs		
Rating Date	Oct-05-05	Oct-12-05	Oct-12-05	Oct-20-05	Oct-20-05	Oct-28-05	Oct-28-05		
Trt-Eval Interval	48 DA-A	55 DA-A	55 DA-A	63 DA-A	63 DA-A	71 DA-A	71 DA-A		
ARM Action Codes						T10	T11		
# Subsamples, Dec.						1	1		
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit	Unit	Unit	Unit	Unit	Unit		
1	V-10147	0.1 lb ai/a	4	4	5	6	8	19.3	24.2
	NIS	0.25 % v/v							
2	V-10147	0.2 lb ai/a	5	5	7	3	4	18.0	21.4
	NIS	0.25 % v/v							
3	V-10147	0.4 lb ai/a	2	3	4	4	5	15.3	18.1
	NIS	0.25 % v/v							
4	Non-treated		7	3	4	8	12	26.7	33.5
5	V-10142	0.1 lb ai/a	7	5	8	9	12	27.0	34.5
	NIS	0.25 % v/v							
6	V-10142	0.2 lb ai/a	6	4	5	8	11	22.3	27.3
	NIS	0.25 % v/v							
7	V-10142	0.4 lb ai/a	5	3	4	11	15	24.0	31.1
	NIS	0.25 % v/v							
8	Sandea	0.5 oz/a	6	3	4	10	14	20.3	27.3
	NIS	0.25 % v/v							
LSD (P=.05)			3.8	2.9	4.1	5.9	7.9	6.02	7.83
Standard Deviation			2.1	1.6	2.4	3.4	4.5	3.44	4.47
CV			41.52	44.73	47.14	45.98	44.42	15.9	16.46

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

Column 110: T10 = [C100]+[C102]+[C104]+[C106]+[C108]

Column 111: T11 = [C101]+[C103]+[C105]+[C107]+[C109]

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Eggplant and pepper response to V-10147 and V-10142 applied topically.

Trial ID: Veg55-05 Study Dir.: Stanley Culpepper
 Location: Ponder (5158) Investigator: Stanley Culpepper

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: 31794 **Initiation Date:** Aug-02-05
Country: USA **Planned Completion Date:** _____
E-Longitude of LL Corner °: _____ **N-Latitude of LL Corner °:** _____
Altitude of LL Corner: _____ Unit: _____ Angle y-axis to North °: _____
Directions:

COOPERATOR/LANDOWNER

Cooperator: _____ **Country:** _____
Org: _____ **Phone No:** _____
Address 1: _____ **Fax No:** _____
Address 2: _____
City: _____
State/Prov: _____
Postal Code: _____

Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N
Guidelines: _____ **Guideline Description:** _____

Objective:

Conclusions:

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	CYPRO	purple nutsedge	

Crop 1: CPSAN bell pepper **Variety:** Plato
Planting Date: Aug-02-05 **Planting Method:** transplant
Rate: 1 12 in **Depth:** 1 in **Perennial Age:** _____
Row Spacing: 15 inch **Spacing Within Row:** 12 inch **Seed Bed:** plasticulture
Soil Temperature: 88 F **Soil Moisture:** drip irrigat **Emergence Date:** _____

Crop 2: SOLME eggplant **Variety:** Santana
Planting Date: Aug-02-05 **Planting Method:** transplant
Rate: 1 18 in **Depth:** 1 in **Perennial Age:** _____
Row Spacing: 6 feet **Spacing Within Row:** 18 inch **Seed Bed:** plasticulture
Soil Temperature: 88 F **Soil Moisture:** drip irrigat **Emergence Date:** _____

SITE AND DESIGN

Plot Width, Unit: 6 FT **Plot Length, Unit:** 20 FT **Reps:** 3
Site Type: research station
Tillage Type: plasticulture **Study Design:** RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments:

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	Previous Crops	Previous Pesticides	Year
1.			

MAINTENANCE

Field Prep./Maintenance:

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.							

SOIL DESCRIPTION

% Sand: 94 % OM: 1.1 Texture: sand
 % Silt: 2 pH: 6.1 Soil Name: Tifton sandy loam
 % Clay: 4 CEC: _____ Fert. Level: _____

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: drip irrigation

Closest Weather Station: _____ Distance: _____ Unit: ____

APPLICATION DESCRIPTION

	A
Application Date:	Aug-18-05
Time of Day:	12 pm
Application Method:	broadcast
Application Timing:	POST
Applic. Placement:	overtop
Air Temp., Unit:	88 F
% Relative Humidity:	50
Wind Velocity, Unit:	2 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	92 F
Soil Moisture:	drip irri
% Cloud Cover:	30

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CPSAN POST
Stage Scale:	6 leaf
Height, Unit:	6 inch
Crop 2 Code, Stage:	SOLME POST
Stage Scale:	12 leaf
Height, Unit:	11 inch

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WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	CYPRO POST
Stage Scale:	4-6 leaf
Density, Unit:	1 ydsq

APPLICATION EQUIPMENT

	A
Appl. Equipment:	backpack
Operating Pressure:	23
Nozzle Type:	flat fan
Nozzle Size:	11002
Nozzle Spacing, Unit:	18 inch
Nozzles/Row:	
Band Width, Unit:	
Boom Length, Unit:	4.5 feet
Boom Height, Unit:	15 inch
Ground Speed, Unit:	3 mph
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	water
Spray Volume, Unit:	14.8 GPA
Spray pH:	
Propellant:	CO2
Tank Mix (Y/N):	Y

Trt No	Treatment Application Comment