

# University of Georgia

**Cucumber and squash response to V-10147 and V-10142 applied topically.**

Trial ID: Veg56-05  
Location: Ponder (5161)

Study Dir.: Stanley Culpepper  
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 the potential for applying V-10142 and V-10147 in cucumber and squash.

#### VISUAL RESPONSE:

- 1) Injury by both products was severe when applied otop of squash; however, injury from V-10147 was much worse than that by V-10142.
- 2) In cucumber, injury by V-10147 was severe and, again, worse than that noted with V-10142. Injury by V-10142 was probably still not acceptable for most situations.

#### CROP HEIGHTS (6 to 10 plant heights measured and averaged):

1. At 12 DAT, squash heights were reduced by all treatments. By 35 DAT, squash plants were similar in size with the control when treated with Sandea or V-10142.
2. At 12 DAT, cucumber heights were reduced by all treatments. By 35 DAT, cucumber heights were only shorter when treated with V-10142 at 0.2 and 0.4 ai/A when compared to the control.

#### CUCUMBER PLANT BIOMASS:

1. At 12 DAT, plants not to be harvested within the plot were harvested and weighed. Plant weights were divided by the number of plants harvested.
2. Cucumber biomass weights were similar to the control when treated only with V-10142 at 0.1 lb ai/A.

#### YIELDS:

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1. Yield differences within a single harvest date were variable as usual.
2. Averaged over 8 squash or cucumber harvest dates, the total number of fruit and their weights were similar with Sandea and V-10142 treatments when compared to the control.
3. Trends for V-10142 at 0.2 and 0.4 lb to reduce cucumber yields were noted.

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Trial ID: Veg56-05

Study Dir.: Stanley Culpepper

Location: Ponder (5161)

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Weed Code								plant 1	plant 2	
Crop Code	squash	squash	squash	cucumber	cucumber	cucumber		squash	squash	
Rating Data Type	injury	injury	injury	injury	injury	injury	ht	ht	ht	
Rating Unit	percent	percent	percent	percent	percent	percent	cm	cm	cm	
Rating Date	Aug-30-05	Sep-07-05	Sep-24-05	Aug-30-05	Sep-07-05	Sep-24-05	Sep-06-05	Sep-06-05	Sep-06-05	
Trt-Eval Interval	5 DA-A	13 DA-A	30 DA-A	5 DA-A	13 DA-A	30 DA-A	12 DA-A	12 DA-A	12 DA-A	
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	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	43	73	67	18	32	38	0	0
2	V-10147 NIS	0.2 lb ai/a 0.25 % v/v	40	78	83	23	43	53	0	0
3	V-10147 NIS	0.4 lb ai/a 0.25 % v/v	50	78	97	35	43	87	0	0
4	Non-treated		0	0	0	0	0	0	19	25
5	V-10142 NIS	0.1 lb ai/a 0.25 % v/v	25	20	17	15	13	15	17	22
6	V-10142 NIS	0.2 lb ai/a 0.25 % v/v	27	22	12	16	17	18	15	14
7	V-10142 NIS	0.4 lb ai/a 0.25 % v/v	15	20	22	17	17	18	21	21
8	Sandea NIS	0.5 oz/a 0.25 % v/v	32	30	27	7	7	8	19	19
LSD (P=.05)			17.0	14.7	19.6	9.8	11.8	9.6	7.0	5.0
Standard Deviation			9.7	8.4	11.2	5.6	6.8	5.5	4.0	2.8
CV			33.49	20.91	27.68	34.24	31.45	18.45	34.99	22.61

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

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Weed Code	plant 3	plant 4	plant 5	plant 6	plant 7	plant 8	plant 9	plant 10			
Crop Code	squash	squash	squash	squash	squash	squash	squash	squash			
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	12 DA-A	12 DA-A	12 DA-A	12 DA-A	12 DA-A	12 DA-A	12 DA-A	12 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	0	0	0	0	0	0	0	0
2	V-10147 NIS	0.2 0.25	lb ai/a % v/v	0	0	0	0	0	0	0	0
3	V-10147 NIS	0.4 0.25	lb ai/a % v/v	0	0	0	0	0	0	0	0
4	Non-treated			26	26	21	26	32	33	26	30
5	V-10142 NIS	0.1 0.25	lb ai/a % v/v	17	20	19	22	18	22	26	26
6	V-10142 NIS	0.2 0.25	lb ai/a % v/v	17	17	19	15	21	24	23	20
7	V-10142 NIS	0.4 0.25	lb ai/a % v/v	19	23	20	19	13	20	26	19
8	Sandea NIS	0.5 0.25	oz/a % v/v	16	15	21	18	20	22	14	10
LSD (P=.05)				7.1	4.5	6.6	8.8	9.7	4.9	12.5	6.4
Standard Deviation				4.0	2.6	3.7	5.0	5.6	2.8	7.1	3.6
CV				33.57	20.2	29.93	40.08	42.47	18.43	49.65	27.78

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

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Weed Code	AVG	plant 1	plant 2	plant 3	plant 4	plant 5	plant 6	plant 7			
Crop Code	squash	squash	squash	squash	squash	squash	squash	squash			
Rating Data Type	plant ht	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm			
Rating Date	Sep-06-05	Sep-29-05	Sep-29-05	Sep-29-05	Sep-29-05	Sep-29-05	Sep-29-05	Sep-29-05			
Trt-Eval Interval	12 DA-A	35 DA-A	35 DA-A	35 DA-A	35 DA-A	35 DA-A	35 DA-A	35 DA-A			
ARM Action Codes	T1										
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Unit	17	18	19	20	21	22	23	24
1	V-10147 NIS	0.1 0.25	lb ai/a % v/v	0	25	25	31	26	18	9	0
2	V-10147 NIS	0.2 0.25	lb ai/a % v/v	0	18	19	14	12	12	14	8
3	V-10147 NIS	0.4 0.25	lb ai/a % v/v	0	5	14	17	19	17	13	0
4	Non-treated			26	53	48	55	52	54	53	48
5	V-10142 NIS	0.1 0.25	lb ai/a % v/v	21	48	50	38	43	45	46	41
6	V-10142 NIS	0.2 0.25	lb ai/a % v/v	19	40	45	45	48	45	45	49
7	V-10142 NIS	0.4 0.25	lb ai/a % v/v	20	48	46	49	52	48	25	31
8	Sandea NIS	0.5 0.25	oz/a % v/v	18	45	46	41	50	45	50	28
LSD (P=.05)				2.1	10.9	18.3	19.4	24.1	22.7	23.5	24.0
Standard Deviation				1.2	6.2	10.5	11.1	13.7	13.0	13.4	13.7
CV				9.29	17.79	28.46	30.53	36.42	36.59	42.17	53.83

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

Column 17: T1 = ([C7]+[C8]+[C9]+[C10]+[C11]+[C12]+[C13]+[C14]+[C15]+[C16])/10

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Weed Code	plant 8	AVG	plant 1	plant 2	plant 3	plant 4	plant 5	plant 6			
Crop Code	squash	squash	cucumber	cucumber	cucumber	cucumber	cucumber	cucumber			
Rating Data Type	ht	plant ht	ht	ht	ht	ht	ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm			
Rating Date	Sep-29-05	Sep-29-05	Sep-06-05	Sep-06-05	Sep-06-05	Sep-06-05	Sep-06-05	Sep-06-05			
Trt-Eval Interval	35 DA-A	35 DA-A	12 DA-A	12 DA-A	12 DA-A	12 DA-A	12 DA-A	12 DA-A			
ARM Action Codes		T2									
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate			
		Unit	Unit	Unit	Unit	Unit	Unit	Unit			
		25	26	27	28	29	30	31	32		
1	V-10147 NIS	0.1 0.25	lb ai/a % v/v	0	17	10	16	10	11	9	11
2	V-10147 NIS	0.2 0.25	lb ai/a % v/v	0	12	11	12	12	15	12	15
3	V-10147 NIS	0.4 0.25	lb ai/a % v/v	0	11	5	8	9	9	10	8
4	Non-treated			34	50	50	55	54	64	62	42
5	V-10142 NIS	0.1 0.25	lb ai/a % v/v	40	44	30	30	26	26	33	42
6	V-10142 NIS	0.2 0.25	lb ai/a % v/v	39	44	22	22	24	22	24	26
7	V-10142 NIS	0.4 0.25	lb ai/a % v/v	37	42	31	16	29	28	15	26
8	Sandea NIS	0.5 0.25	oz/a % v/v	26	41	31	33	31	33	35	38
LSD (P=.05)		16.4		11.4	21.0	15.8	13.9	15.8	18.7	12.9	
Standard Deviation		9.3		6.5	12.0	9.0	7.9	9.0	10.7	7.4	
CV		42.32		19.94	50.55	37.76	32.44	34.66	42.94	28.5	

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

Column 26: T2 = ((C18)+[C19]+[C20]+[C21]+[C22]+[C23]+[C24]+[C25])/8

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Weed Code	plant 7 cucumber	plant 8 cucumber	plant 9 cucumber	plant 10 cucumber	AVG cucumber	plant 1 cucumber	plant 2 cucumber	plant 3 cucumber			
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-29-05	Sep-29-05	Sep-29-05			
Rating Date	12 DA-A	12 DA-A	12 DA-A	12 DA-A	12 DA-A	35 DA-A	35 DA-A	35 DA-A			
Trt-Eval Interval					T3						
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Unit	33	34	35	36	37	38	39	40
1	V-10147 NIS	0.1 0.25	lb ai/a % v/v	7	12	12	13	11	127	172	98
2	V-10147 NIS	0.2 0.25	lb ai/a % v/v	14	14	13	13	13	91	118	74
3	V-10147 NIS	0.4 0.25	lb ai/a % v/v	8	9	10	8	8	63	41	36
4	Non-treated			34	49	48	51	51	160	137	136
5	V-10142 NIS	0.1 0.25	lb ai/a % v/v	21	43	31	33	31	147	184	125
6	V-10142 NIS	0.2 0.25	lb ai/a % v/v	26	33	29	33	26	139	128	115
7	V-10142 NIS	0.4 0.25	lb ai/a % v/v	23	27	33	29	26	137	155	105
8	Sandea NIS	0.5 0.25	oz/a % v/v	30	39	40	30	34	163	142	186
LSD (P=.05)	16.1	12.1	12.5	15.0	9.8	55.2	67.1	51.5			
Standard Deviation	9.2	6.9	7.1	8.6	5.6	31.5	38.3	29.4			
CV	44.89	24.49	26.33	32.58	22.34	24.56	28.45	26.88			

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

Column 37: T3 = ([C27]+[C28]+[C29]+[C30]+[C31]+[C32]+[C33]+[C34]+[C35]+[C36])/10

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Weed Code	plant 4	plant 5	plant 6	AVG	biomass	biomass	biomass	harv 1	
Crop Code	cucumber	cucumber	cucumber	cucumber	cucumber	cucumber	cucumber	squash	
Rating Data Type	ht	ht	ht	plant ht	plant	plant	per plant	fruit	
Rating Unit	cm	cm	cm	cm	#	wt	lbs	#	
Rating Date	Sep-29-05	Sep-29-05	Sep-29-05	Sep-29-05	Sep-07-05	Sep-07-05	Sep-07-05	Sep-07-05	
Trt-Eval Interval	35 DA-A	35 DA-A	35 DA-A	35 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A	
ARM Action Codes				T4			T5		
# Subsamples, Dec.							2		
Trt Treatment									
No. Name Rate Unit	41	42	43	44	45	46	47	48	
1 V-10147 NIS	0.1 lb ai/a 0.25 % v/v	125	118	97	123	7	0	0.02	0
2 V-10147 NIS	0.2 lb ai/a 0.25 % v/v	54	58	104	83	6	0	0.01	0
3 V-10147 NIS	0.4 lb ai/a 0.25 % v/v	48	47	52	48	7	0	0.01	0
4 Non-treated		138	161	142	146	5	0	0.10	4
5 V-10142 NIS	0.1 lb ai/a 0.25 % v/v	113	161	148	146	6	0	0.07	0
6 V-10142 NIS	0.2 lb ai/a 0.25 % v/v	177	175	151	148	6	0	0.05	0
7 V-10142 NIS	0.4 lb ai/a 0.25 % v/v	161	146	122	138	5	0	0.04	4
8 Sandea NIS	0.5 oz/a 0.25 % v/v	156	159	135	157	6	0	0.05	0
LSD (P=.05)		56.6	61.6	94.4	30.8	2.3	0.2	0.028	3.3
Standard Deviation		32.3	35.2	53.9	17.6	1.3	0.1	0.016	1.9
CV		26.59	27.46	45.38	14.25	22.13	44.68	36.62	180.67

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

Column 44: T4 = ([C38]+[C39]+[C40]+[C41]+[C42]+[C43])/6

Column 47: T5 = [C46]/[C45]



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Weed Code	harv 1	harv 2	harv 2	harv 2	harv 2	harv 3	harv 3	harv 4
Crop Code	squash	squash	squash	squash	squash	squash	squash	squash
Rating Data Type	fruit	fruit	fruit	cull	cull	fruit	fruit	fruit
Rating Unit	lbs	#	lbs	#	lbs	#	lbs	#
Rating Date	Sep-07-05	Sep-12-05	Sep-12-05	Sep-12-05	Sep-12-05	Sep-14-05	Sep-14-05	Sep-16-05
Trt-Eval Interval	13 DA-A	18 DA-A	18 DA-A	18 DA-A	18 DA-A	20 DA-A	20 DA-A	22 DA-A
ARM Action Codes								
# Subsamples, Dec.								
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate
		Unit	Unit	Unit	Unit	Unit	Unit	Unit
		49	50	51	52	53	54	55
1	V-10147 NIS	0.1 lb ai/a 0.25 % v/v	0	0	0	0	0	0
2	V-10147 NIS	0.2 lb ai/a 0.25 % v/v	0	0	0	0	0	0
3	V-10147 NIS	0.4 lb ai/a 0.25 % v/v	0	0	0	0	0	0
4	Non-treated		1	3	0	0	3	1
5	V-10142 NIS	0.1 lb ai/a 0.25 % v/v	0	3	0	0	2	0
6	V-10142 NIS	0.2 lb ai/a 0.25 % v/v	0	3	0	0	1	0
7	V-10142 NIS	0.4 lb ai/a 0.25 % v/v	0	3	0	0	4	1
8	Sandea NIS	0.5 oz/a 0.25 % v/v	0	2	0	0	1	0
LSD (P=.05)			0.3	3.1	0.3	0.5	0.1	2.1
Standard Deviation			0.2	1.8	0.2	0.3	0.0	1.2
CV			193.87	100.16	106.5	320.71	329.15	92.04
								109.71
								67.76

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

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Weed Code	harv 4	harv 4	harv 4	harv 5	harv 5	harv 5	harv 5	harv 6			
Crop Code	squash	squash	squash	squash	squash	squash	squash	squash			
Rating Data Type	fruit	cull	cull	fruit	fruit	cull	cull	fruit			
Rating Unit	lbs	#	lbs	#	lbs	#	lbs	#			
Rating Date	Sep-16-05	Sep-16-05	Sep-16-05	Sep-19-05	Sep-19-05	Sep-19-05	Sep-19-05	Sep-21-05			
Trt-Eval Interval	22 DA-A	22 DA-A	22 DA-A	25 DA-A	25 DA-A	25 DA-A	25 DA-A	27 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	0	0	0	0	0	0	0	0
2	V-10147 NIS	0.2 0.25	lb ai/a % v/v	0	0	0	0	0	0	0	0
3	V-10147 NIS	0.4 0.25	lb ai/a % v/v	0	0	0	0	0	0	0	0
4	Non-treated			0	0	0	11	2	0	0	5
5	V-10142 NIS	0.1 0.25	lb ai/a % v/v	0	0	0	9	1	0	0	11
6	V-10142 NIS	0.2 0.25	lb ai/a % v/v	0	0	0	11	1	0	0	10
7	V-10142 NIS	0.4 0.25	lb ai/a % v/v	0	1	0	6	1	1	0	8
8	Sandea NIS	0.5 0.25	oz/a % v/v	0	0	0	10	1	1	0	9
LSD (P=.05)				0.3	1.2	0.1	7.1	1.3	1.2	0.1	3.1
Standard Deviation				0.1	0.7	0.0	4.0	0.8	0.7	0.1	1.8
CV				92.59	395.51	403.69	68.78	98.95	235.11	229.94	33.71

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

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Weed Code	harv 6	harv 6	harv 6	harv 7	harv 7	harv 7	harv 7	harv 8			
Crop Code	squash	squash	squash	squash	squash	squash	squash	squash			
Rating Data Type	fruit	cull	cull	fruit	fruit	cull	cull	fruit			
Rating Unit	lbs	#	lbs	#	lbs	#	lbs	#			
Rating Date	Sep-21-05	Sep-21-05	Sep-21-05	Sep-23-05	Sep-23-05	Sep-23-05	Sep-23-05	Sep-27-05			
Trt-Eval Interval	27 DA-A	27 DA-A	27 DA-A	29 DA-A	29 DA-A	29 DA-A	29 DA-A	33 DA-A			
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Unit	65	66	67	68	69	70	71	72
1	V-10147 NIS	0.1 0.25	lb ai/a % v/v	0	0	0	0	0	0	0	5
2	V-10147 NIS	0.2 0.25	lb ai/a % v/v	0	0	0	0	0	0	0	0
3	V-10147 NIS	0.4 0.25	lb ai/a % v/v	0	0	0	0	0	0	0	3
4	Non-treated			0	0	0	3	0	0	0	8
5	V-10142 NIS	0.1 0.25	lb ai/a % v/v	1	2	0	5	1	0	0	7
6	V-10142 NIS	0.2 0.25	lb ai/a % v/v	1	2	0	4	0	0	0	8
7	V-10142 NIS	0.4 0.25	lb ai/a % v/v	1	2	0	4	0	0	0	8
8	Sandea NIS	0.5 0.25	oz/a % v/v	1	2	0	5	1	0	0	6
LSD (P=.05)				0.2	1.9	0.2	2.3	0.3	0.0	0.0	7.5
Standard Deviation				0.1	1.1	0.1	1.3	0.2	0.0	0.0	4.3
CV				39.72	114.7	147.56	48.09	52.8	0.0	0.0	77.18

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

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Weed Code	harv 8	TotalYLD	TotalYLD	TotaCULL	TotaCULL	harv 1	harv 1	harv 2	
Crop Code	squash	squash	squash	squash	squash	cucumber	cucumber	cucumber	
Rating Data Type	fruit	fruit	fruit	fruit	fruit	fruit	fruit	fruit	
Rating Unit	lbs	#	lbs	#	lbs	#	lbs	#	
Rating Date	Sep-27-05	Sep-27-05	Sep-27-05	Sep-27-05	Sep-27-05	Sep-12-05	Sep-12-05	Sep-14-05	
Trt-Eval Interval	33 DA-A	33 DA-A	33 DA-A	33 DA-A	33 DA-A	18 DA-A	18 DA-A	20 DA-A	
ARM Action Codes		T6	T7	T8	T9				
# 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	1	5	1	0	0	0	0	0
NIS	0.25 % v/v								
2 V-10147	0.2 lb ai/a	0	0	0	0	0	0	0	0
NIS	0.25 % v/v								
3 V-10147	0.4 lb ai/a	1	3	1	0	0	0	0	0
NIS	0.25 % v/v								
4 Non-treated		3	41	7	0	0	1	0	4
5 V-10142	0.1 lb ai/a	2	41	4	3	0	2	0	2
NIS	0.25 % v/v								
6 V-10142	0.2 lb ai/a	3	42	6	3	0	0	0	0
NIS	0.25 % v/v								
7 V-10142	0.4 lb ai/a	3	43	7	4	0	0	0	0
NIS	0.25 % v/v								
8 Sandea	0.5 oz/a	2	37	4	3	0	1	0	2
NIS	0.25 % v/v								
LSD (P=.05)		2.6	24.7	4.4	3.3	0.4	1.5	0.2	3.2
Standard Deviation		1.5	14.1	2.5	1.9	0.3	0.9	0.1	1.8
CV		80.71	53.01	65.49	125.04	147.54	189.7	187.98	182.41

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

Column 74: T6 = [C48]+[C50]+[C54]+[C56]+[C60]+[C64]+[C68]+[C72]

Column 75: T7 = [C49]+[C51]+[C55]+[C57]+[C61]+[C65]+[C69]+[C73]

Column 76: T8 = [C52]+[C58]+[C62]+[C66]+[C70]

Column 77: T9 = [C53]+[C59]+[C63]+[C67]+[C71]

## University of Georgia

Weed Code	harv 2	harv 3	harv 3	harv 3	harv 3	harv 4	harv 4	harv 4
Crop Code	cucumber	cucumber	cucumber	cucumber	cucumber	cucumber	cucumber	cucumber
Rating Data Type	fruit	fruit	fruit	cull	cull	fruit	fruit	cull
Rating Unit	lbs	#	lbs	#	lbs	#	lbs	#
Rating Date	Sep-14-05	Sep-16-05	Sep-16-05	Sep-16-05	Sep-16-05	Sep-19-05	Sep-19-05	Sep-19-05
Trt-Eval Interval	20 DA-A	22 DA-A	22 DA-A	22 DA-A	22 DA-A	25 DA-A	25 DA-A	25 DA-A
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment								
No. Name								
Rate								
Rate Unit								
	81	82	83	84	85	86	87	88
1 V-10147	0	0	0	0	0	6	1	0
NIS								
2 V-10147	0	0	0	0	0	2	0	2
NIS								
3 V-10147	0	0	0	0	0	0	0	2
NIS								
4 Non-treated	1	4	0	6	1	7	1	0
5 V-10142	1	4	0	6	1	8	1	0
NIS								
6 V-10142	0	3	0	0	0	12	3	0
NIS								
7 V-10142	0	7	1	0	0	10	2	1
NIS								
8 Sandea	1	3	0	2	0	11	2	0
NIS								
LSD (P=.05)	1.1	5.3	0.5	5.2	0.8	7.1	1.6	1.8
Standard Deviation	0.6	3.0	0.3	3.0	0.5	4.0	0.9	1.0
CV	195.99	113.28	114.37	165.49	163.99	56.53	68.74	201.78

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

## University of Georgia

Weed Code	harv 4	harv 5	harv 5	harv 6	harv 6	harv 7	harv 7	harv 8			
Crop Code	cucumber	cucumber	cucumber	cucumber	cucumber	cucumber	cucumber	cucumber			
Rating Data Type	cull	fruit	fruit	fruit	fruit	fruit	fruit	fruit			
Rating Unit	lbs	#	lbs	#	lbs	#	lbs	#			
Rating Date	Sep-19-05	Sep-21-05	Sep-21-05	Sep-23-05	Sep-23-05	Sep-27-05	Sep-27-05	Sep-30-05			
Trt-Eval Interval	25 DA-A	27 DA-A	27 DA-A	29 DA-A	29 DA-A	33 DA-A	33 DA-A	36 DA-A			
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Unit	89	90	91	92	93	94	95	96
1	V-10147 NIS	0.1 0.25	lb ai/a % v/v	0	3	0	1	0	3	1	7
2	V-10147 NIS	0.2 0.25	lb ai/a % v/v	0	3	0	1	0	0	0	4
3	V-10147 NIS	0.4 0.25	lb ai/a % v/v	0	1	0	0	0	1	0	1
4	Non-treated			0	8	1	2	1	10	6	4
5	V-10142 NIS	0.1 0.25	lb ai/a % v/v	0	7	1	0	0	8	4	8
6	V-10142 NIS	0.2 0.25	lb ai/a % v/v	0	3	0	0	0	7	4	7
7	V-10142 NIS	0.4 0.25	lb ai/a % v/v	0	4	1	1	0	9	4	5
8	Sandea NIS	0.5 0.25	oz/a % v/v	0	5	1	3	1	8	4	8
LSD (P=.05)				0.3	5.9	1.0	3.5	1.3	4.9	2.7	4.3
Standard Deviation				0.2	3.4	0.6	2.0	0.7	2.8	1.5	2.5
CV				245.36	79.63	86.91	211.01	228.72	48.4	50.67	44.27

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

## University of Georgia

Weed Code	harv 8 cucumber	harv 8 cucumber	harv 8 cucumber	TotalYLD cucumber	TotalYLD cucumber	TotaCULL cucumber	TotaCULL cucumber			
Crop Code	fruit	cull	cull	fruit	fruit	fruit	fruit			
Rating Data Type	lbs	#	lbs	#	lbs	#	lbs			
Rating Unit	Sep-30-05	Sep-30-05	Sep-30-05	Sep-30-05	Sep-30-05	Sep-30-05	Sep-30-05			
Rating Date	36 DA-A	36 DA-A	36 DA-A	36 DA-A	36 DA-A	36 DA-A	36 DA-A			
Trt-Eval Interval				T10	T11	T12	T13			
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Rate Unit	97	98	99	100	101	102	103
1	V-10147 NIS	0.1 0.25	lb ai/a % v/v	2	0	0	19	5	0	0
2	V-10147 NIS	0.2 0.25	lb ai/a % v/v	1	1	0	10	2	2	0
3	V-10147 NIS	0.4 0.25	lb ai/a % v/v	0	0	0	4	1	2	0
4	Non-treated			1	0	0	40	12	6	1
5	V-10142 NIS	0.1 0.25	lb ai/a % v/v	2	0	0	40	10	6	1
6	V-10142 NIS	0.2 0.25	lb ai/a % v/v	2	0	0	32	9	0	0
7	V-10142 NIS	0.4 0.25	lb ai/a % v/v	1	0	0	36	9	1	0
8	Sandea NIS	0.5 0.25	oz/a % v/v	2	0	0	42	12	2	0
LSD (P=.05)				1.2	0.9	0.2	11.6	3.7	5.4	0.8
Standard Deviation				0.7	0.5	0.1	6.6	2.1	3.1	0.5
CV				46.87	242.84	264.06	23.82	28.07	135.29	135.5

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

Column 100: T10 = [C78]+[C80]+[C82]+[C86]+[C90]+[C92]+[C94]+[C96]

Column 101: T11 = [C79]+[C81]+[C83]+[C87]+[C91]+[C93]+[C95]+[C97]

Column 102: T12 = [C84]+[C88]

Column 103: T13 = [C85]+[C89]

# University of Georgia

Cucumber and squash response to V-10147 and V-10142 applied topically.

Trial ID: Veg56-05 Study Dir.: Stanley Culpepper  
Location: Ponder (5161) 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:** good  
**Postal Code:** 31794 **Initiation Date:** Aug-10-05  
**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.	.		

**Crop 1:** CUUPE SQUASH, SUMMER **Variety:** Prelude II  
**Planting Date:** Aug-10-05 **Planting Method:** transplant  
**Rate:** 1 12 in **Depth:** 1 in **Perennial Age:** \_\_\_\_  
**Row Spacing:** 6 feet **Spacing Within Row:** 12 inch **Seed Bed:** plasticulture  
**Soil Temperature:** 99 F **Soil Moisture:** drip **Emergence Date:** \_\_\_\_\_

**Crop 2:** CUMSA CUCUMBER **Variety:** Thunder  
**Planting Date:** Aug-10-05 **Planting Method:** transplant  
**Rate:** 1 12 in **Depth:** 1 in **Perennial Age:** \_\_\_\_  
**Row Spacing:** 6 feet **Spacing Within Row:** 12 inch **Seed Bed:** plasticulture  
**Soil Temperature:** 99 F **Soil Moisture:** drip **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: 6.3	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-25-05
Time of Day:	8:15 am
Application Method:	broadcast
Application Timing:	POST
Applic. Placement:	overtop
Air Temp., Unit:	76 F
% Relative Humidity:	90
Wind Velocity, Unit:	3 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	80 F
Soil Moisture:	drip
% Cloud Cover:	100

### CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CUUPE POST
Stage Scale:	4-5 leaf
Height, Unit:	4.5 inch
Crop 2 Code, Stage:	CUMSA POST
Stage Scale:	4-5 leaf
Height, Unit:	5 inch

# University of Georgia

## WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	.
Stage Scale:	.
Density, Unit:	. .

## APPLICATION EQUIPMENT

	A
Appl. Equipment:	backpack
Operating Pressure:	23
Nozzle Type:	flat fan
Nozzle Size:	11002
Nozzle Spacing, Unit:	18 inch
Nozzles/Row:	4
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