

# University of Georgia

## Tomato and weed response to V-10142 formulations.

Trial ID: Veg56-06

Study Dir.: Stanley Culpepper

Location: TVP

Investigator: Stanley Culpepper

Reps: 4

Plots: 6 by 16 feet

Spray vol: 14.8 gal/ac

Mix size: 1 liters (min .49387)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Form Rate	Unit	Grow Stg	Appl Code	Amt to Measure	Product	Plot No. By Rep			
											1	2	3	4
1	V-10142	75	WDG	0.075	LB A/A	POST	A	A	0.8096 g/mx	101	210	303	403	
	NIS	L		0.25	% V/V	POST	A	A	2.5 ml/mx					
2	V-10142	3.3	FL	0.075	LB A/A	POST	A	A	1.535 ml/mx	102	209	307	407	
	NIS	L		0.25	% V/V	POST	A	A	2.5 ml/mx					
3	V-10142	75	WDG	0.1	LB A/A	POST	A	A	1.08 g/mx	103	201	306	406	
	NIS	L		0.25	% V/V	POST	A	A	2.5 ml/mx					
4	V-10142	3.3	FL	0.1	LB A/A	POST	A	A	2.047 ml/mx	104	202	304	404	
	NIS	L		0.25	% V/V	POST	A	A	2.5 ml/mx					
5	V-10142	75	WDG	0.15	LB A/A	POST	A	A	1.619 g/mx	105	203	301	401	
	NIS	L		0.25	% V/V	POST	A	A	2.5 ml/mx					
6	V-10142	3.3	FL	0.15	LB A/A	POST	A	A	3.071 ml/mx	106	205	310	410	
	NIS	L		0.25	% V/V	POST	A	A	2.5 ml/mx					
7	V-10142	75	WDG	0.2	LB A/A	POST	A	A	2.159 g/mx	107	208	302	402	
	NIS	L		0.25	% V/V	POST	A	A	2.5 ml/mx					
8	V-10142	3.3	FL	0.2	LB A/A	POST	A	A	4.095 ml/mx	108	206	309	409	
	NIS	L		0.25	% V/V	POST	A	A	2.5 ml/mx					
9	Sandea	75	DF	0.047	LB A/A	POST	A	A	0.5074 g/mx	109	207	305	405	
	NIS	L		0.25	% V/V	POST	A	A	2.5 ml/mx					
10	Non-treated									110	204	308	408	

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
7.084	g	V-10142	75	WDG	
28.122	ml	NIS		L	
13.435	ml	V-10142	3.3	FL	
0.634	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 tomato tolerance to topical applications of V-10142.

## VISUAL RESPONSE:

1. No visual injury was noted throughout the season.

## TOMATO PLANT HEIGHT:

1. During early May with a CV of 4.6, there were no difference in plant heights when heights from 4 plants per plot were measured.

## YIELD:

1. Tomato were harvested six times and at each harvest they were graded into six categories.
2. When adding harvest 1 and 2 within each grading size in an attempt to look for delayed crop maturity, no treatment had any impact on yield.
3. When adding the six harvest within each grading size, no differences in treatments were noted.

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4. When adding all marketable fruit, there were no differences in the number of fruit (CV 12.22) or weight of fruit (CV 8.28) of any treatment.
5. There was a trend for more culled fruit in plots treated with an herbicide as compared to those not treated with a herbicide.

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**Tomato and weed response to V-10142 formulations.**

Trial ID: Veg56-06

Study Dir.: Stanley Culpepper

Location: TVP

Investigator: Stanley Culpepper

Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Assessed By	Trt-Eval Interval	ARM Action Codes	LYPES injury %	LYPES injury %	plant 1 LYPES ht cm	plant 2 LYPES ht cm	plant 3 LYPES ht cm	plant 4 LYPES ht cm	avg plt LYPES ht cm	jumbo LYPES fruit #
				May-05-06	SC	12 DA-A		May-05-06	May-16-06	May-05-06	May-05-06	May-05-06	May-05-06	May-05-06	May-23-06
Trt No.	Treatment Name	Rate	Rate Unit	1	2	3	4	5	6	7	8				
1	V-10142 NIS	0.075	LB A/A 0.25 % V/V	0 a	0 a	81 a	81 a	75 a	75 a	78 a	0 a				
2	V-10142 NIS	0.075	LB A/A 0.25 % V/V	0 a	0 a	78 ab	79 ab	73 a	72 a	75 a	0 a				
3	V-10142 NIS	0.1	LB A/A 0.25 % V/V	0 a	0 a	78 ab	81 a	80 a	74 a	78 a	0 a				
4	V-10142 NIS	0.1	LB A/A 0.25 % V/V	0 a	0 a	79 ab	80 a	76 a	77 a	78 a	1 a				
5	V-10142 NIS	0.15	LB A/A 0.25 % V/V	0 a	0 a	77 ab	76 ab	81 a	78 a	78 a	1 a				
6	V-10142 NIS	0.15	LB A/A 0.25 % V/V	0 a	0 a	74 b	74 ab	78 a	80 a	76 a	1 a				
7	V-10142 NIS	0.2	LB A/A 0.25 % V/V	0 a	0 a	76 ab	76 ab	81 a	79 a	78 a	1 a				
8	V-10142 NIS	0.2	LB A/A 0.25 % V/V	0 a	0 a	75 ab	75 ab	78 a	75 a	76 a	0 a				
9	Sandea NIS	0.047	LB A/A 0.25 % V/V	0 a	0 a	75 ab	75 ab	75 a	75 a	75 a	0 a				
10	Non-treated			0 a	0 a	71 b	71 b	75 a	75 a	73 a	0 a				
LSD (P=.05)				0.0	0.0	6.7	7.1	7.6	8.4	5.1	1.0				
Standard Deviation				0.0	0.0	4.6	4.9	5.2	5.8	3.5	0.7				
CV				0.0	0.0	6.02	6.4	6.77	7.64	4.6	198.25				
Bartlett's X2				0.0	0.0	7.282	6.283	11.193	16.378	2.607	5.13				
P(Bartlett's X2)				.	.	0.608	0.711	0.263	0.059	0.978	0.744				

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

Column 7: T1 = ((C3)+[C4]+[C5]+[C6])/4

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Weed Code	jumbo LYPES	large LYPES	large LYPES	medium LYPES	medium LYPES	small LYPES	small LYPES	exsmall LYPES			
Crop Code	fruit	fruit	fruit	fruit	fruit	fruit	fruit	fruit			
Rating Data Type	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#			
Rating Unit	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#			
Rating Date	May-23-06	May-23-06	May-23-06	May-23-06	May-23-06	May-23-06	May-23-06	May-23-06			
Assessed By	30 DA-A	30 DA-A	30 DA-A	30 DA-A	30 DA-A	30 DA-A	30 DA-A	30 DA-A			
Trt-Eval Interval	30 DA-A	30 DA-A	30 DA-A	30 DA-A	30 DA-A	30 DA-A	30 DA-A	30 DA-A			
ARM Action Codes											
Trt No.	Treatment Name	Rate	Rate Unit	9	10	11	12	13	14	15	16
1	V-10142 NIS	0.075 0.25	LB A/A % V/V	0 a	0 a	0 a	0 b	0 b	0 a	0 a	0 a
2	V-10142 NIS	0.075 0.25	LB A/A % V/V	0 a	0 a	0 a	1 ab	0 ab	0 a	0 a	0 a
3	V-10142 NIS	0.1 0.25	LB A/A % V/V	0 a	0 a	0 a	1 ab	0 ab	0 a	0 a	0 a
4	V-10142 NIS	0.1 0.25	LB A/A % V/V	0 a	0 a	0 a	0 ab	0 ab	0 a	0 a	0 a
5	V-10142 NIS	0.15 0.25	LB A/A % V/V	0 a	1 a	0 a	1 ab	0 ab	0 a	0 a	0 a
6	V-10142 NIS	0.15 0.25	LB A/A % V/V	0 a	1 a	0 a	0 b	0 b	0 a	0 a	0 a
7	V-10142 NIS	0.2 0.25	LB A/A % V/V	0 a	0 a	0 a	0 ab	0 ab	0 a	0 a	0 a
8	V-10142 NIS	0.2 0.25	LB A/A % V/V	0 a	0 a	0 a	1 a	0 a	0 a	0 a	0 a
9	Sandea NIS	0.047 0.25	LB A/A % V/V	0 a	1 a	0 a	0 ab	0 ab	0 a	0 a	0 a
10	Non-treated			0 a	0 a	0 a	0 ab	0 ab	1 a	0 a	0 a
LSD (P=.05)				0.5	0.8	0.3	0.8	0.2	0.5	0.1	0.2
Standard Deviation				0.3	0.5	0.2	0.6	0.1	0.3	0.1	0.2
CV				202.63	180.31	188.16	143.53	140.66	274.33	274.03	632.46
Bartlett's X2				7.364	3.069	4.107	3.058	2.684	0.094	0.98	0.0
P(Bartlett's X2)				0.498	0.879	0.767	0.88	0.913	0.993	0.806	.

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

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Weed Code	exsmall LYPES	cull LYPES	cull LYPES	jumbo LYPES	jumbo LYPES	large LYPES	large LYPES	medium LYPES			
Crop Code											
Rating Data Type	fruit	fruit	fruit	fruit	fruit	fruit	fruit	fruit			
Rating Unit	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#			
Rating Date	May-23-06	May-23-06	May-23-06	May-26-06	May-26-06	May-26-06	May-26-06	May-26-06			
Assessed By											
Trt-Eval Interval	30 DA-A	30 DA-A	30 DA-A	33 DA-A	33 DA-A	33 DA-A	33 DA-A	33 DA-A			
ARM Action Codes											
Trt No.	Treatment Name	Rate	Rate Unit	17	18	19	20	21	22	23	24
1	V-10142 NIS	0.075 0.25	LB A/A % V/V	0 a	0 a	0 a	0 ab	0 b	1 ab	0 ab	0 a
2	V-10142 NIS	0.075 0.25	LB A/A % V/V	0 a	0 a	0 a	0 b	0 b	1 ab	0 ab	0 a
3	V-10142 NIS	0.1 0.25	LB A/A % V/V	0 a	1 a	0 a	1 ab	0 ab	0 b	0 b	0 a
4	V-10142 NIS	0.1 0.25	LB A/A % V/V	0 a	1 a	0 a	1 ab	0 ab	0 b	0 b	0 a
5	V-10142 NIS	0.15 0.25	LB A/A % V/V	0 a	1 a	0 a	1 ab	0 ab	0 b	0 b	0 a
6	V-10142 NIS	0.15 0.25	LB A/A % V/V	0 a	1 a	0 a	1 ab	0 ab	1 ab	0 ab	1 a
7	V-10142 NIS	0.2 0.25	LB A/A % V/V	0 a	0 a	0 a	0 b	0 b	0 b	0 b	1 a
8	V-10142 NIS	0.2 0.25	LB A/A % V/V	0 a	1 a	0 a	2 a	1 a	1 a	0 a	1 a
9	Sandea NIS	0.047 0.25	LB A/A % V/V	0 a	0 a	0 a	0 ab	0 ab	0 b	0 b	0 a
10	Non-treated			0 a	1 a	0 a	1 ab	0 ab	0 b	0 b	0 a
LSD (P=.05)				0.0	0.7	0.2	1.1	0.5	0.7	0.2	0.6
Standard Deviation				0.0	0.5	0.1	0.8	0.3	0.5	0.1	0.4
CV				632.46	129.58	144.33	146.05	140.48	163.75	166.36	166.89
Bartlett's X2				0.0	0.208	2.839	8.742	8.919	0.835	1.474	0.2
P(Bartlett's X2)				.	1.00	0.90	0.272	0.258	0.934	0.831	1.00

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

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Weed Code	medium LYPES	small LYPES	small LYPES	exsmall LYPES	exsmall LYPES	cull LYPES	cull LYPES	jumbo LYPES			
Crop Code	fruit	fruit	fruit	fruit	fruit	fruit	fruit	fruit			
Rating Data Type	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#			
Rating Unit	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#			
Rating Date	May-26-06	May-26-06	May-26-06	May-26-06	May-26-06	May-26-06	May-26-06	Jun-01-06			
Assessed By	33 DA-A	33 DA-A	33 DA-A	33 DA-A	33 DA-A	33 DA-A	33 DA-A	39 DA-A			
Trt-Eval Interval	33 DA-A	33 DA-A	33 DA-A	33 DA-A	33 DA-A	33 DA-A	33 DA-A	39 DA-A			
ARM Action Codes											
Trt No.	Treatment Name	Rate	Rate Unit	25	26	27	28	29	30	31	32
1	V-10142 NIS	0.075 0.25	LB A/A % V/V	0 a	0 a	0 a	0 a	0 a	0 a	0 a	3 b
2	V-10142 NIS	0.075 0.25	LB A/A % V/V	0 a	0 a	0 a	0 a	0 a	0 a	0 a	2 bc
3	V-10142 NIS	0.1 0.25	LB A/A % V/V	0 a	0 a	0 a	0 a	0 a	0 a	0 a	2 bc
4	V-10142 NIS	0.1 0.25	LB A/A % V/V	0 a	0 a	0 a	0 a	0 a	0 a	0 a	2 bc
5	V-10142 NIS	0.15 0.25	LB A/A % V/V	0 a	0 a	0 a	0 a	0 a	1 a	0 a	5 a
6	V-10142 NIS	0.15 0.25	LB A/A % V/V	0 a	0 a	0 a	0 a	0 a	1 a	0 a	1 c
7	V-10142 NIS	0.2 0.25	LB A/A % V/V	0 a	0 a	0 a	0 a	0 a	1 a	0 a	2 bc
8	V-10142 NIS	0.2 0.25	LB A/A % V/V	0 a	0 a	0 a	0 a	0 a	0 a	0 a	2 bc
9	Sandea NIS	0.047 0.25	LB A/A % V/V	0 a	0 a	0 a	0 a	0 a	0 a	0 a	3 ab
10	Non-treated			0 a	0 a	0 a	0 a	0 a	1 a	0 a	2 bc
LSD (P=.05)				0.2	0.3	0.1	0.0	0.0	1.5	0.4	1.7
Standard Deviation				0.1	0.2	0.1	0.0	0.0	1.1	0.3	1.1
CV				170.06	455.42	461.96	0.0	0.0	233.46	238.11	47.13
Bartlett's X2				0.599	0.0	0.368	0.0	0.0	17.601	23.179	6.529
P(Bartlett's X2)				0.996	0.001*	0.544	.	.	0.014*	0.002*	0.686

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

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Weed Code	jumbo	large	large	medium	medium	small	small	exsmall		
Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES		
Rating Data Type	fruit	fruit	fruit	fruit	fruit	fruit	fruit	fruit		
Rating Unit	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#		
Rating Date	Jun-01-06	Jun-01-06	Jun-01-06	Jun-01-06	Jun-01-06	Jun-01-06	Jun-01-06	Jun-01-06		
Assessed By	39 DA-A	39 DA-A	39 DA-A	39 DA-A	39 DA-A	39 DA-A	39 DA-A	39 DA-A		
Trt-Eval Interval	39 DA-A	39 DA-A	39 DA-A	39 DA-A	39 DA-A	39 DA-A	39 DA-A	39 DA-A		
ARM Action Codes										
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit	Unit	Unit	Unit	Unit	Unit	Unit		
		33	34	35	36	37	38	39	40	
1	V-10142 NIS	0.075 LB A/A 0.25 % V/V	1 abc	0 b	0 b	1 ab	0 a	0 a	0 ab	1 ab
2	V-10142 NIS	0.075 LB A/A 0.25 % V/V	1 bc	2 ab	1 ab	1 ab	0 a	0 a	0 b	0 ab
3	V-10142 NIS	0.1 LB A/A 0.25 % V/V	1 bc	1 ab	0 ab	1 ab	0 a	0 a	0 ab	1 ab
4	V-10142 NIS	0.1 LB A/A 0.25 % V/V	1 bc	1 ab	0 ab	0 b	0 a	1 a	0 ab	0 ab
5	V-10142 NIS	0.15 LB A/A 0.25 % V/V	2 a	1 ab	0 ab	1 ab	0 a	0 a	0 b	0 ab
6	V-10142 NIS	0.15 LB A/A 0.25 % V/V	0 c	0 ab	0 ab	0 b	0 a	0 a	0 ab	0 b
7	V-10142 NIS	0.2 LB A/A 0.25 % V/V	1 bc	3 a	1 a	2 a	0 a	1 a	0 a	2 a
8	V-10142 NIS	0.2 LB A/A 0.25 % V/V	1 bc	1 ab	0 ab	0 b	0 a	1 a	0 ab	0 b
9	Sandea NIS	0.047 LB A/A 0.25 % V/V	2 ab	1 ab	0 ab	0 b	0 a	0 a	0 ab	0 b
10	Non-treated		1 bc	1 ab	0 ab	1 ab	0 a	0 a	0 b	0 ab
LSD (P=.05)			0.9	2.2	0.8	1.2	0.4	1.1	0.3	1.7
Standard Deviation			0.7	1.5	0.5	0.8	0.3	0.7	0.2	1.2
CV			50.5	146.37	153.45	113.17	133.01	229.91	259.12	290.27
Bartlett's X2			4.074	16.446	17.076	9.179	12.028	10.702	20.208	26.895
P(Bartlett's X2)			0.907	0.036*	0.029*	0.421	0.212	0.098	0.003*	0.001*

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

## University of Georgia

Weed Code	exsmall LYPES	cull LYPES	cull LYPES	jumbo LYPES	jumbo LYPES	large LYPES	large LYPES	medium LYPES			
Crop Code	fruit	fruit	fruit	fruit	fruit	fruit	fruit	fruit			
Rating Data Type	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#			
Rating Unit	Jun-01-06	Jun-01-06	Jun-01-06	Jun-07-06	Jun-07-06	Jun-07-06	Jun-07-06	Jun-07-06			
Rating Date	39 DA-A	39 DA-A	39 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A			
Assessed By	ARM Action Codes										
Trt-Eval Interval	Trt Treatment										
ARM Action Codes	Rate										
Trt No.	Treatment Name	Rate	Unit	41	42	43	44	45	46	47	48
1	V-10142 NIS	0.075 0.25	LB A/A % V/V	0 ab	0 a	0 a	20 a	11 a	9 ab	2 bc	7 a
2	V-10142 NIS	0.075 0.25	LB A/A % V/V	0 ab	0 a	0 a	17 a	9 a	5 b	1 c	6 a
3	V-10142 NIS	0.1 0.25	LB A/A % V/V	0 ab	1 a	0 a	18 a	10 a	7 ab	2 bc	7 a
4	V-10142 NIS	0.1 0.25	LB A/A % V/V	0 ab	1 a	0 a	19 a	10 a	9 ab	3 abc	6 a
5	V-10142 NIS	0.15 0.25	LB A/A % V/V	0 ab	1 a	0 a	16 a	9 a	12 a	4 a	7 a
6	V-10142 NIS	0.15 0.25	LB A/A % V/V	0 b	0 a	0 a	17 a	10 a	7 ab	2 bc	7 a
7	V-10142 NIS	0.2 0.25	LB A/A % V/V	0 a	1 a	0 a	21 a	11 a	6 b	2 bc	8 a
8	V-10142 NIS	0.2 0.25	LB A/A % V/V	0 b	1 a	0 a	17 a	10 a	6 b	2 bc	6 a
9	Sandea NIS	0.047 0.25	LB A/A % V/V	0 b	0 a	0 a	19 a	10 a	10 ab	3 ab	4 a
10	Non-treated			0 ab	0 a	0 a	14 a	7 a	10 ab	3 ab	7 a
LSD (P=.05)				0.3	1.3	0.5	8.3	4.9	5.3	1.6	6.8
Standard Deviation				0.2	0.9	0.4	5.7	3.4	3.6	1.1	4.7
CV				306.6	164.49	180.21	32.3	34.83	45.8	43.08	72.84
Bartlett's X2				32.217	9.054	11.538	8.892	7.319	7.326	5.692	14.996
P(Bartlett's X2)				0.001*	0.432	0.241	0.447	0.604	0.603	0.77	0.091

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



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Weed Code	medium LYPES	small LYPES	small LYPES	exsmall LYPES	exsmall LYPES	cull LYPES	cull LYPES	jumbo LYPES			
Crop Code	fruit	fruit	fruit	fruit	fruit	fruit	fruit	fruit			
Rating Data Type	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#			
Rating Unit	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#			
Rating Date	Jun-07-06	Jun-07-06	Jun-07-06	Jun-07-06	Jun-07-06	Jun-07-06	Jun-07-06	Jun-14-06			
Assessed By	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A	52 DA-A			
Trt-Eval Interval	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A	52 DA-A			
ARM Action Codes											
Trt No.	Treatment Name	Rate	Unit	49	50	51	52	53	54	55	56
1	V-10142 NIS	0.075 0.25	LB A/A % V/V	1 a	3 a	1 a	7 ab	1 ab	6 a	2 ab	19 ab
2	V-10142 NIS	0.075 0.25	LB A/A % V/V	2 a	3 a	1 a	7 ab	0 b	5 ab	1 ab	21 ab
3	V-10142 NIS	0.1 0.25	LB A/A % V/V	2 a	3 a	1 a	8 ab	1 ab	7 a	2 a	18 ab
4	V-10142 NIS	0.1 0.25	LB A/A % V/V	1 a	3 a	1 a	8 ab	1 ab	4 ab	2 ab	20 ab
5	V-10142 NIS	0.15 0.25	LB A/A % V/V	2 a	3 a	0 a	3 b	0 b	7 a	2 a	20 ab
6	V-10142 NIS	0.15 0.25	LB A/A % V/V	2 a	3 a	0 a	7 ab	1 ab	4 ab	2 ab	26 a
7	V-10142 NIS	0.2 0.25	LB A/A % V/V	2 a	3 a	0 a	4 ab	1 b	5 ab	2 ab	16 b
8	V-10142 NIS	0.2 0.25	LB A/A % V/V	2 a	4 a	1 a	13 a	1 a	5 ab	2 ab	18 ab
9	Sandea NIS	0.047 0.25	LB A/A % V/V	1 a	3 a	1 a	6 ab	1 ab	6 ab	2 a	19 ab
10	Non-treated			2 a	1 a	0 a	4 ab	1 b	2 b	1 b	21 ab
LSD (P=.05)				1.5	2.7	0.6	8.3	0.6	3.4	1.4	7.1
Standard Deviation				1.1	1.9	0.4	5.7	0.4	2.3	1.0	4.9
CV				69.02	69.12	76.75	87.32	61.04	46.98	58.39	24.81
Bartlett's X2				14.052	12.396	11.136	20.193	11.049	6.626	9.84	6.379
P(Bartlett's X2)				0.12	0.192	0.266	0.017*	0.272	0.676	0.364	0.702

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

## University of Georgia

Weed Code	jumbo	large	large	medium	medium	small	small	exsmall			
Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES			
Rating Data Type	fruit	fruit	fruit	fruit	fruit	fruit	fruit	fruit			
Rating Unit	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#			
Rating Date	Jun-14-06	Jun-14-06	Jun-14-06	Jun-14-06	Jun-14-06	Jun-14-06	Jun-14-06	Jun-14-06			
Assessed By	52 DA-A	52 DA-A	52 DA-A	52 DA-A	52 DA-A	52 DA-A	52 DA-A	52 DA-A			
Trt-Eval Interval	52 DA-A	52 DA-A	52 DA-A	52 DA-A	52 DA-A	52 DA-A	52 DA-A	52 DA-A			
ARM Action Codes											
Trt No.	Treatment Name	Rate	Rate Unit	57	58	59	60	61	62	63	64
1	V-10142 NIS	0.075 0.25	LB A/A % V/V	11 ab	5 a	2 a	3 a	1 a	0 a	0 a	2 a
2	V-10142 NIS	0.075 0.25	LB A/A % V/V	12 ab	6 a	2 a	2 a	0 a	1 a	0 a	1 a
3	V-10142 NIS	0.1 0.25	LB A/A % V/V	10 ab	7 a	3 a	2 a	1 a	2 a	0 a	2 a
4	V-10142 NIS	0.1 0.25	LB A/A % V/V	11 ab	4 a	1 a	2 a	0 a	1 a	0 a	1 a
5	V-10142 NIS	0.15 0.25	LB A/A % V/V	11 ab	7 a	3 a	2 a	1 a	1 a	0 a	2 a
6	V-10142 NIS	0.15 0.25	LB A/A % V/V	15 a	7 a	3 a	1 a	0 a	1 a	0 a	1 a
7	V-10142 NIS	0.2 0.25	LB A/A % V/V	9 b	7 a	2 a	2 a	1 a	0 a	0 a	2 a
8	V-10142 NIS	0.2 0.25	LB A/A % V/V	9 b	8 a	3 a	3 a	1 a	1 a	0 a	1 a
9	Sandea NIS	0.047 0.25	LB A/A % V/V	11 ab	5 a	2 a	4 a	1 a	1 a	0 a	1 a
10	Non-treated			11 ab	8 a	3 a	4 a	1 a	1 a	0 a	2 a
LSD (P=.05)				4.2	5.5	2.0	3.5	1.0	1.4	0.4	2.1
Standard Deviation				2.9	3.8	1.4	2.4	0.7	1.0	0.3	1.5
CV				26.58	61.22	58.29	103.49	99.59	147.74	145.4	100.28
Bartlett's X2				6.813	10.613	10.206	14.47	11.252	8.167	5.222	6.54
P(Bartlett's X2)				0.657	0.303	0.334	0.107	0.259	0.318	0.633	0.685

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

## University of Georgia

Weed Code	exsmall	cull	cull	jumbo	jumbo	large	large	medium			
Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES			
Rating Data Type	fruit	fruit	fruit	fruit	fruit	fruit	fruit	fruit			
Rating Unit	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#			
Rating Date	Jun-14-06	Jun-14-06	Jun-14-06	Jun-19-06	Jun-19-06	Jun-19-06	Jun-19-06	Jun-19-06			
Assessed By	52 DA-A	52 DA-A	52 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A			
Trt-Eval Interval	52 DA-A	52 DA-A	52 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A			
ARM Action Codes											
Trt No.	Treatment Name	Rate	Rate Unit	65	66	67	68	69	70	71	72
1	V-10142 NIS	0.075 0.25	LB A/A % V/V	0 a	4 abc	1 a	12 b	6 bc	13 ab	4 ab	7 a
2	V-10142 NIS	0.075 0.25	LB A/A % V/V	0 a	2 abc	1 a	22 a	11 a	15 ab	5 ab	11 a
3	V-10142 NIS	0.1 0.25	LB A/A % V/V	0 a	5 ab	1 a	11 b	6 bc	10 ab	3 ab	12 a
4	V-10142 NIS	0.1 0.25	LB A/A % V/V	0 a	3 abc	1 a	10 b	5 bc	15 ab	5 ab	10 a
5	V-10142 NIS	0.15 0.25	LB A/A % V/V	0 a	5 a	1 a	10 b	5 bc	6 b	2 b	10 a
6	V-10142 NIS	0.15 0.25	LB A/A % V/V	0 a	2 abc	1 a	13 ab	7 abc	19 a	6 a	14 a
7	V-10142 NIS	0.2 0.25	LB A/A % V/V	0 a	2 abc	1 a	8 b	4 c	13 ab	5 ab	15 a
8	V-10142 NIS	0.2 0.25	LB A/A % V/V	0 a	2 abc	1 a	16 ab	7 abc	10 ab	3 ab	9 a
9	Sandea NIS	0.047 0.25	LB A/A % V/V	0 a	1 c	0 a	17 ab	9 ab	8 ab	3 ab	9 a
10	Non-treated			0 a	2 bc	1 a	11 b	5 bc	16 ab	5 ab	9 a
LSD (P=.05)				0.3	3.0	1.0	9.0	4.6	10.1	3.4	8.0
Standard Deviation				0.2	2.0	0.7	6.2	3.1	6.9	2.4	5.5
CV				100.94	72.47	74.58	48.37	48.88	56.48	56.14	52.44
Bartlett's X2				6.027	15.818	13.555	8.317	8.862	17.246	15.599	10.141
P(Bartlett's X2)				0.737	0.071	0.139	0.503	0.45	0.045*	0.076	0.339

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

## University of Georgia

Weed Code	medium LYPES	small LYPES	small LYPES	exsmall LYPES	exsmall LYPES	cull LYPES	cull LYPES	Har1-2 Jumbo			
Crop Code	fruit	fruit	fruit	fruit	fruit	fruit	fruit	fruit			
Rating Data Type	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#			
Rating Unit	Jun-19-06	Jun-19-06	Jun-19-06	Jun-19-06	Jun-19-06	Jun-19-06	Jun-19-06	Nov-18-06			
Rating Date	57 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A	209 DA-A			
Assessed By								T16			
Trt-Eval Interval											
ARM Action Codes											
Trt No.	Treatment Name	Rate	Rate Unit	73	74	75	76	77	78	79	80
1	V-10142 NIS	0.075 0.25	LB A/A % V/V	2 a	5 a	1 a	34 a	2 a	5 abc	2 a	78 a
2	V-10142 NIS	0.075 0.25	LB A/A % V/V	3 a	3 a	1 a	17 a	2 a	3 abc	1 ab	75 a
3	V-10142 NIS	0.1 0.25	LB A/A % V/V	3 a	5 a	1 a	23 a	2 a	6 ab	1 ab	78 a
4	V-10142 NIS	0.1 0.25	LB A/A % V/V	2 a	5 a	1 a	19 a	2 a	6 a	2 a	78 a
5	V-10142 NIS	0.15 0.25	LB A/A % V/V	2 a	3 a	1 a	35 a	3 a	3 abc	1 ab	78 a
6	V-10142 NIS	0.15 0.25	LB A/A % V/V	3 a	8 a	1 a	22 a	2 a	1 c	0 b	76 a
7	V-10142 NIS	0.2 0.25	LB A/A % V/V	3 a	6 a	1 a	24 a	2 a	2 bc	1 ab	78 a
8	V-10142 NIS	0.2 0.25	LB A/A % V/V	2 a	4 a	1 a	25 a	2 a	3 abc	1 ab	76 a
9	Sandea NIS	0.047 0.25	LB A/A % V/V	2 a	3 a	0 a	33 a	3 a	2 bc	1 ab	75 a
10	Non-treated			2 a	4 a	1 a	18 a	2 a	2 bc	1 ab	73 a
LSD (P=.05)				1.9	6.3	1.2	17.0	1.4	3.6	1.2	5.1
Standard Deviation				1.3	4.4	0.8	11.7	0.9	2.5	0.8	3.5
CV				52.08	98.32	97.61	47.39	48.31	78.79	81.82	4.6
Bartlett's X2				11.364	16.166	16.416	7.823	13.299	21.898	15.301	2.273
P(Bartlett's X2)				0.252	0.064	0.059	0.552	0.15	0.009*	0.083	0.986

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

Column 80: T16 = [C7]+[C19]

## University of Georgia

Weed Code	Har1-2	Har1-2	Har1-2	Har1-2	Har1-2	Har1-2	Har1-2	Har1-2	
Crop Code	Jumbo	Large	Large	Med	Med	Small	Small	Ex-small	
Rating Data Type	fruit	fruit	fruit	fruit	fruit	fruit	fruit	fruit	
Rating Unit	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#	
Rating Date	Nov-18-06	Nov-18-06	Nov-18-06	Nov-18-06	Nov-18-06	Nov-18-06	Nov-18-06	Nov-18-06	
Assessed By									
Trt-Eval Interval	209 DA-A	209 DA-A	209 DA-A	209 DA-A	209 DA-A	209 DA-A	209 DA-A	209 DA-A	
ARM Action Codes	T17	T18	T19	T20	T21	T22	T23	T24	
Trt Treatment									
No. Name									
Rate									
Unit									
	81	82	83	84	85	86	87	88	
1 V-10142	0.075 LB A/A	1 a	0 a	1 ab	0 ab	0 a	0 b	0 a	0 a
NIS	0.25 % V/V								
2 V-10142	0.075 LB A/A	0 a	0 a	1 ab	0 ab	1 a	0 ab	0 a	0 a
NIS	0.25 % V/V								
3 V-10142	0.1 LB A/A	1 a	0 a	0 b	0 b	1 a	0 ab	0 a	0 a
NIS	0.25 % V/V								
4 V-10142	0.1 LB A/A	1 a	1 a	0 b	0 b	0 a	0 b	0 a	0 a
NIS	0.25 % V/V								
5 V-10142	0.15 LB A/A	1 a	1 a	1 ab	0 ab	1 a	0 ab	1 a	0 a
NIS	0.25 % V/V								
6 V-10142	0.15 LB A/A	1 a	1 a	1 a	0 ab	1 a	0 ab	0 a	0 a
NIS	0.25 % V/V								
7 V-10142	0.2 LB A/A	1 a	0 a	0 b	0 b	1 a	0 ab	0 a	0 a
NIS	0.25 % V/V								
8 V-10142	0.2 LB A/A	2 a	1 a	1 a	0 a	2 a	0 a	0 a	0 a
NIS	0.25 % V/V								
9 Sandea	0.047 LB A/A	1 a	0 a	1 ab	0 ab	0 a	0 b	1 a	0 a
NIS	0.25 % V/V								
10 Non-treated		1 a	0 a	0 b	0 b	1 a	0 ab	1 a	0 a
LSD (P=.05)		1.6	0.8	0.8	0.3	1.1	0.3	0.5	0.1
Standard Deviation		1.1	0.5	0.6	0.2	0.7	0.2	0.4	0.1
CV		124.18	125.88	99.15	104.96	114.29	109.0	210.82	223.91
Bartlett's X2		12.989	15.197	3.856	6.21	5.438	9.802	0.085	0.629
P(Bartlett's X2)		0.163	0.086	0.796	0.515	0.71	0.367	0.994	0.89

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

Column 81: T17 = [C8]+[C20]

Column 82: T18 = [C9]+[C21]

Column 83: T19 = [C10]+[C22]

Column 84: T20 = [C11]+[C23]

Column 85: T21 = [C12]+[C24]

Column 86: T22 = [C13]+[C25]

Column 87: T23 = [C14]+[C26]

Column 88: T24 = [C15]+[C27]

## University of Georgia

Weed Code	Har1-2	Har1-2	Har1-2	AllJumbo	All Jumb	All Larg	All Larg	All Med			
Crop Code	Ex-small	Cull	Cull	LYPES	LYPES	LYPES	LYPES	LYPES			
Rating Data Type	fruit	fruit	fruit	fruit	fruit	fruit	fruit	fruit			
Rating Unit	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#			
Rating Date	Nov-18-06	Nov-18-06	Nov-18-06	Nov-18-06	Nov-18-06	Nov-18-06	Nov-18-06	Nov-18-06			
Assessed By	209 DA-A	209 DA-A	209 DA-A	209 DA-A	209 DA-A	209 DA-A	209 DA-A	209 DA-A			
Trt-Eval Interval	T25	T26	T27	T2	T3	T4	T5	T6			
ARM Action Codes											
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate			
Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit			
		89	90	91	92	93	94	95	96		
1	V-10142 NIS	0.075 0.25	LB A/A % V/V	0 a	0 a	0 a	54 ab	30 a	27 a	9 a	18 a
2	V-10142 NIS	0.075 0.25	LB A/A % V/V	0 a	0 a	1 a	63 a	34 a	28 a	9 a	21 a
3	V-10142 NIS	0.1 0.25	LB A/A % V/V	0 a	0 a	1 a	51 ab	27 a	24 a	9 a	23 a
4	V-10142 NIS	0.1 0.25	LB A/A % V/V	0 a	0 a	1 a	52 ab	28 a	28 a	10 a	18 a
5	V-10142 NIS	0.15 0.25	LB A/A % V/V	0 a	0 a	2 a	51 ab	27 a	27 a	10 a	21 a
6	V-10142 NIS	0.15 0.25	LB A/A % V/V	0 a	0 a	2 a	57 ab	32 a	35 a	12 a	22 a
7	V-10142 NIS	0.2 0.25	LB A/A % V/V	0 a	0 a	1 a	47 b	26 a	28 a	10 a	27 a
8	V-10142 NIS	0.2 0.25	LB A/A % V/V	0 a	0 a	1 a	54 ab	28 a	25 a	9 a	20 a
9	Sandea NIS	0.047 0.25	LB A/A % V/V	0 a	0 a	0 a	59 ab	33 a	25 a	9 a	17 a
10	Non-treated			0 a	0 a	1 a	49 ab	25 a	34 a	12 a	22 a
LSD (P=.05)		0.2		0.0	1.5	13.4	8.1	13.4	4.5	11.5	
Standard Deviation		0.2		0.0	1.1	9.3	5.6	9.3	3.1	8.0	
CV		632.46		632.46	127.72	17.31	19.41	33.0	32.21	38.6	
Bartlett's X2		0.0		0.0	14.615	10.391	8.006	5.383	3.157	10.898	
P(Bartlett's X2)		.		.	0.102	0.32	0.534	0.80	0.958	0.283	

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

Column 89: T25 = [C16]+[C28]

Column 90: T26 = [C17]+[C29]

Column 91: T27 = [C18]+[C30]

Column 92: T2 = [C8]+[C20]+[C32]+[C44]+[C56]+[C68]

Column 93: T3 = [C9]+[C21]+[C33]+[C45]+[C57]+[C69]

Column 94: T4 = [C10]+[C22]+[C34]+[C46]+[C58]+[C70]

Column 95: T5 = [C11]+[C23]+[C35]+[C47]+[C59]+[C71]

Column 96: T6 = [C12]+[C24]+[C36]+[C48]+[C60]+[C72]

# University of Georgia

Weed Code	All Med LYPES	All Smal LYPES	All smal LYPES	All Ex-S LYPES	All Ex-S LYPES	All Cull LYPES	All Cull LYPES	All Mark LYPES			
Crop Code											
Rating Data Type	fruit	fruit	fruit	fruit	fruit	fruit	fruit	fruit			
Rating Unit	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#			
Rating Date	Nov-18-06	Nov-18-06	Nov-18-06	Nov-18-06	Nov-18-06	Nov-18-06	Nov-18-06	Nov-18-06			
Assessed By											
Trt-Eval Interval	209 DA-A	209 DA-A	209 DA-A	209 DA-A	209 DA-A	209 DA-A	209 DA-A	209 DA-A			
ARM Action Codes	T7	T8	T9	T10	T11	T12	T13	T14			
Trt No.	Treatment Name	Rate	Rate Unit	97	98	99	100	101	102	103	104
1	V-10142 NIS	0.075	LB A/A % V/V	4 a	8 a	2 a	43 a	3 a	15 abc	5 a	149 a
2	V-10142 NIS	0.075	LB A/A % V/V	5 a	7 a	1 a	25 a	2 a	11 bcd	3 a	143 a
3	V-10142 NIS	0.1	LB A/A % V/V	6 a	10 a	2 a	33 a	3 a	18 ab	5 a	140 a
4	V-10142 NIS	0.1	LB A/A % V/V	4 a	9 a	2 a	28 a	3 a	16 abc	5 a	135 a
5	V-10142 NIS	0.15	LB A/A % V/V	5 a	7 a	1 a	40 a	3 a	19 a	5 a	144 a
6	V-10142 NIS	0.15	LB A/A % V/V	5 a	11 a	2 a	30 a	3 a	9 cd	3 a	156 a
7	V-10142 NIS	0.2	LB A/A % V/V	7 a	9 a	2 a	32 a	3 a	11 bcd	4 a	143 a
8	V-10142 NIS	0.2	LB A/A % V/V	5 a	9 a	2 a	38 a	4 a	11 bcd	4 a	146 a
9	Sandea NIS	0.047	LB A/A % V/V	4 a	7 a	1 a	39 a	3 a	9 cd	3 a	146 a
10	Non-treated			6 a	7 a	2 a	24 a	3 a	7 d	2 a	135 a
LSD (P=.05)				2.7	7.4	1.6	19.7	1.6	6.7	2.5	25.5
Standard Deviation				1.9	5.1	1.1	13.6	1.1	4.6	1.7	17.6
CV				36.83	61.65	64.3	40.93	36.43	37.29	42.3	12.22
Bartlett's X2				8.626	12.016	8.537	5.838	3.952	7.35	9.816	2.987
P(Bartlett's X2)				0.472	0.212	0.481	0.756	0.915	0.601	0.366	0.965

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

- Column 97: T7 = [C13]+[C25]+[C37]+[C49]+[C61]+[C73]
- Column 98: T8 = [C14]+[C26]+[C38]+[C50]+[C62]+[C74]
- Column 99: T9 = [C15]+[C27]+[C39]+[C51]+[C63]+[C75]
- Column 100: T10 = [C16]+[C28]+[C40]+[C52]+[C64]+[C76]
- Column 101: T11 = [C17]+[C29]+[C41]+[C53]+[C65]+[C77]
- Column 102: T12 = [C18]+[C30]+[C42]+[C54]+[C66]+[C78]
- Column 103: T13 = [C19]+[C31]+[C43]+[C55]+[C67]+[C79]
- Column 104: T14 = [C92]+[C94]+[C96]+[C98]+[C100]

# University of Georgia

Weed Code	All Mark			
Crop Code	LYPES			
Rating Data Type	fruit			
Rating Unit	wt/lb			
Rating Date	Nov-18-06			
Assessed By				
Trt-Eval Interval	209 DA-A			
ARM Action Codes	T15			
Trt No.	Treatment Name	Rate	Unit	105
1	V-10142 NIS	0.075 0.25	LB A/A % V/V	48 b
2	V-10142 NIS	0.075 0.25	LB A/A % V/V	52 ab
3	V-10142 NIS	0.1 0.25	LB A/A % V/V	46 b
4	V-10142 NIS	0.1 0.25	LB A/A % V/V	47 b
5	V-10142 NIS	0.15 0.25	LB A/A % V/V	46 b
6	V-10142 NIS	0.15 0.25	LB A/A % V/V	54 a
7	V-10142 NIS	0.2 0.25	LB A/A % V/V	47 b
8	V-10142 NIS	0.2 0.25	LB A/A % V/V	48 b
9	Sandea NIS	0.047 0.25	LB A/A % V/V	50 ab
10	Non-treated			47 b
LSD (P=.05)				5.8
Standard Deviation				4.0
CV				8.28
Bartlett's X2				7.698
P(Bartlett's X2)				0.565

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

Column 105: T15 = [C93]+[C95]+[C97]+[C99]+[C101]

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# University of Georgia

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

**SOIL DESCRIPTION**

% Sand: 90      % OM: 1.1      Texture: Sand  
 % Silt: 8      pH: 6.3      Soil Name: Tifton sandy loam  
 % Clay: 2      CEC: \_\_\_\_\_      Fert. Level: \_\_\_\_\_

**ADDITIONAL MEASURED ELEMENTS**

Element	Quantity	Unit

**MOISTURE CONDITIONS**

No.	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: drip irrigation

Closest Weather Station: \_\_\_\_\_ Distance: \_\_\_\_\_ Unit: \_\_

**APPLICATION DESCRIPTION**

	A
Application Date:	Apr-23-06
Time of Day:	9:00am
Application Method:	broadcast
Application Timing:	POST
Applic. Placement:	overtop
Air Temp., Unit:	72 F
% Relative Humidity:	48
Wind Velocity, Unit:	0 mph
Dew Presence (Y/N):	Y
Water Hardness:	
Soil Temp., Unit:	80 F
Soil Moisture:	drip
% Cloud Cover:	0

**CROP STAGE AT EACH APPLICATION**

	A
Crop 1 Code, Stage:	LYPES POST
Stage Scale:	1" fruit
Height, Unit:	22 in

**WEED STAGE AT EACH APPLICATION**

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

# University of Georgia

## APPLICATION EQUIPMENT

	A
Appl. Equipment:	backpack
Operating Pressure:	24
Nozzle Type:	flat fan
Nozzle Size:	11002
Nozzle Spacing, Unit:	18 inch
Nozzles/Row:	2
Band Width, Unit:	
Boom Length, Unit:	4.5 ft
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