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Totmato and weed response to V-10142 and Chateau.

Trial ID: Veg22-07
Location: Ponder Farm

Study Dir.: Stanley Culpepper
Investigator: Stanley Culpepper

Reps: 4 Plots: 6 by 20 feet
Spray vol: 14.8 gal/ac Mix size: 1 liters (min .61734)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No. By Rep				
										1	2	3	4	
1	V-10142	75		WG	0.2	LB	A/A	PD	C	2.159 g/mx	104	209	303	405
	NIS			L	0.25	%	V/V	PD	C	2.5 ml/mx				
2	V-10142	75		WG	0.3	LB	A/A	PD	C	3.239 g/mx	105	208	302	404
	NIS			L	0.25	%	V/V	PD	C	2.5 ml/mx				
3	V-10142	75		WG	0.4	LB	A/A	PD	C	4.318 g/mx	106	206	301	406
	NIS			L	0.25	%	V/V	PD	C	2.5 ml/mx				
4	V-10142	75		WG	0.2	LB	A/A	POT	B	2.159 g/mx	107	207	304	402
	NIS			L	0.25	%	V/V	POT	B	2.5 ml/mx				
	V-10142	75		WG	0.3	LB	A/A	PD	C	3.239 g/mx				
	NIS			L	0.25	%	V/V	PD	C	2.5 ml/mx				
5	None									108	205	305	403	
6	V-10142	75		WG	0.3	LB	A/A	POT	B	3.239 g/mx	109	204	306	401
	NIS			L	0.25	%	V/V	POT	B	2.5 ml/mx				
	V-10142	75		WG	0.4	LB	A/A	PD	C	4.318 g/mx				
	NIS			L	0.25	%	V/V	PD	C	2.5 ml/mx				
7	Chateau	51		WG	3	OZ/A		PREPLANT	A	1.518 g/mx	101	201	307	409
	V-10142	75		WG	0.3	LB	A/A	PREPLANT	A	3.239 g/mx				
	NIS			L	0.25	%	V/V	PREPLANT	A	2.5 ml/mx				
8	Chateau	51		WG	3	OZ/A		PREPLANT	A	1.518 g/mx	102	203	308	407
	NIS			L	0.25	%	V/V	PREPLANT	A	2.5 ml/mx				
9	Chateau	51		WG	3	OZ/A		PREPLANT	A	1.518 g/mx	103	202	309	408
	NIS			L	0.25	%	V/V	PREPLANT	A	2.5 ml/mx				
	Dual Magnum	7.62		L	1	PT/A		PREPLANT	A	8.445 ml/mx				

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
32.385	g	V-10142	75	WG	
31.247	ml	NIS		L	
5.693	g	Chateau	51	WG	
10.556	ml	Dual Magnum	7.62	L	

- * '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: Determine tomato tolerance to V-10142 applied topically and directed to tomato.

VISUAL INJURY:

1. Tomato was not visually injured from any herbicide application at anytime.

TOMATO HEIGHTS:

1. Eight plants per plot were measured 4 and 11 day after the topical application.
2. Heights were not impacted by topical or preplant herbicide treatments.

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TOMATO YIELDS:

1. Tomato was harvested and graded six times. The first two harvest were of Jumbo only fruit.
2. No differences in large, medium or small fruit were noted.
3. Differences in the total number of Jumbo fruit were noted. This statistical difference was not noted in individual harvest but a trend was present during harvest 6. V-10142 at rates greater than 0.2 lb reduced total jumbo fruit numbers and weights compared to the control or V-10142 at 0.2 lb. Sequential V-10142 applications showed similar trends.

CONCLUSIONS:

1. Previous research has not noted any negative impact of V-10142 on tomato yield. However, no previous tomato trial evaluating V-10142 carried fruit harvest past the fourth picking date which may have been a mistake.

GENERAL COMMENTS:

1. Feb 26: Telone II, Chloropicrin, and Vapam applied as the fumigant across the trial.

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Totmato and weed response to V-10142 and Chateau.

Trial ID: Veg22-07
 Location: Ponder Farm

Study Dir.: Stanley Culpepper
 Investigator: Stanley Culpepper

Weed Code	LYPES	LYPES	LYPES	plant 1	plant 2	plant 3	plant 4	plant 5			
Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES			
Rating Data Type	injury	injury	injury	ht	ht	ht	ht	ht			
Rating Unit	%	%	%	cm	cm	cm	cm	cm			
Rating Date	Apr-18-07	Apr-26-07	May-14-07	Apr-12-07	Apr-12-07	Apr-12-07	Apr-12-07	Apr-12-07			
Assessed By	SC	SC	SC								
Trt-Eval Interval	10 DA-B	18 DA-B	14 DA-C	4 DA-B	4 DA-B	4 DA-B	4 DA-B	4 DA-B			
ARM Action Codes											
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7	8
1	V-10142 NIS	0.2 0.25	LB A/A % V/V	0 a	0 a	0 a	23 ab	23 ab	23 ab	24 a	24 a
2	V-10142 NIS	0.3 0.25	LB A/A % V/V	0 a	0 a	0 a	22 ab	22 b	21 b	23 a	23 a
3	V-10142 NIS	0.4 0.25	LB A/A % V/V	0 a	0 a	0 a	24 ab	23 ab	24 a	23 a	24 a
4	V-10142 NIS V-10142 NIS	0.2 0.25 0.3 0.25	LB A/A % V/V LB A/A % V/V	0 a	0 a	0 a	24 ab	24 ab	24 ab	22 a	25 a
5	None			0 a	0 a	0 a	22 ab	24 ab	24 a	23 a	22 a
6	V-10142 NIS V-10142 NIS	0.3 0.25 0.4 0.25	LB A/A % V/V LB A/A % V/V	0 a	0 a	0 a	23 ab	22 ab	23 ab	24 a	23 a
7	Chateau V-10142 NIS	3 0.3 0.25	OZ/A LB A/A % V/V	0 a	0 a	0 a	23 ab	23 ab	24 ab	23 a	23 a
8	Chateau NIS	3 0.25	OZ/A % V/V	0 a	0 a	0 a	18 b	23 ab	25 a	23 a	23 a
9	Chateau NIS Dual Magnum	3 0.25 1	OZ/A % V/V PT/A	0 a	0 a	0 a	26 a	25 a	23 ab	22 a	22 a
LSD (P=.05)				0.0	0.0	0.0	5.6	3.1	2.2	3.3	3.4
Standard Deviation				0.0	0.0	0.0	3.8	2.1	1.5	2.3	2.4
CV				0.0	0.0	0.0	17.0	9.28	6.46	9.86	10.25
Bartlett's X2				0.0	0.0	0.0	29.498	6.539	6.585	9.164	13.103
P(Bartlett's X2)				.	.	.	0.001*	0.587	0.582	0.329	0.108

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

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Weed Code	plant 6 LYPES	plant 7 LYPES	plant 8 LYPES	Avg8plan LYPES	plant 1 LYPES	plant 2 LYPES	plant 3 LYPES	plant 4 LYPES			
Crop Code											
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm			
Rating Date	Apr-12-07	Apr-12-07	Apr-12-07	Apr-12-07	Apr-19-07	Apr-19-07	Apr-19-07	Apr-19-07			
Assessed By											
Trt-Eval Interval	4 DA-B	4 DA-B	4 DA-B	4 DA-B	11 DA-B	11 DA-B	11 DA-B	11 DA-B			
ARM Action Codes				T1							
Trt No.	Treatment Name	Rate	Unit	9	10	11	12	13	14	15	16
1	V-10142 NIS	0.2 0.25	LB A/A % V/V	22 a	22 b	23 a	23 a	29 a	22 a	30 ab	29 a
2	V-10142 NIS	0.3 0.25	LB A/A % V/V	23 a	21 b	23 a	22 a	27 a	28 a	30 ab	28 a
3	V-10142 NIS	0.4 0.25	LB A/A % V/V	23 a	22 ab	22 a	23 a	27 a	26 a	30 ab	29 a
4	V-10142 NIS V-10142 NIS	0.2 0.25 0.3 0.25	LB A/A % V/V LB A/A % V/V	23 a	24 ab	21 a	23 a	25 a	29 a	30 ab	26 a
5	None			23 a	22 b	23 a	23 a	30 a	31 a	28 ab	29 a
6	V-10142 NIS V-10142 NIS	0.3 0.25 0.4 0.25	LB A/A % V/V LB A/A % V/V	24 a	24 ab	23 a	23 a	29 a	29 a	32 a	29 a
7	Chateau V-10142 NIS	3 0.3 0.25	OZ/A LB A/A % V/V	24 a	23 ab	23 a	23 a	29 a	26 a	28 ab	27 a
8	Chateau NIS	3 0.25	OZ/A % V/V	23 a	23 ab	23 a	23 a	29 a	28 a	26 b	28 a
9	Chateau NIS Dual Magnum	3 0.25 1	OZ/A % V/V PT/A	25 a	25 a	25 a	24 a	28 a	27 a	29 ab	27 a
LSD (P=.05)				3.6	2.9	3.2	1.8	4.8	8.3	4.1	5.3
Standard Deviation				2.5	2.0	2.2	1.2	3.3	5.7	2.8	3.6
CV				10.55	8.63	9.52	5.27	11.71	21.0	9.73	12.94
Bartlett's X2				9.442	6.292	5.542	12.023	6.079	33.549	3.976	8.0
P(Bartlett's X2)				0.306	0.615	0.698	0.15	0.638	0.001*	0.783	0.433

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

Column 12: T1 = @AVG([C4].[C11])

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Weed Code	plant 5 LYPES	plant 6 LYPES	plant 7 LYPES	plant 8 LYPES	AVG8Plan LYPES	harv 1 LYPES	harv 1 LYPES	harv 2 LYPES
Crop Code								
Rating Data Type	ht	ht	ht	ht	ht	jumbo	jumbo	jumbo
Rating Unit	cm	cm	cm	cm	cm	#	wt/lbs	#
Rating Date	Apr-19-07	Apr-19-07	Apr-19-07	Apr-19-07	Apr-19-07	May-25-07	May-25-07	May-31-07
Assessed By								
Trt-Eval Interval	11 DA-B	11 DA-B	11 DA-B	11 DA-B	11 DA-B	67 DA-A	67 DA-A	73 DA-A
ARM Action Codes					T2			
Trt Treatment								
No. Name								
Rate								
Rate Unit								
17	18	19	20	21	22	23	24	
1 V-10142 NIS	27 a	29 a	26 a	24 a	27 a	17 ab	8 a	3 a
0.2 LB A/A 0.25 % V/V								
2 V-10142 NIS	29 a	25 a	27 a	26 a	27 a	14 b	7 a	3 a
0.3 LB A/A 0.25 % V/V								
3 V-10142 NIS	28 a	28 a	26 a	30 a	28 a	16 ab	8 a	2 a
0.4 LB A/A 0.25 % V/V								
4 V-10142 NIS	29 a	29 a	30 a	30 a	28 a	17 ab	7 a	2 a
0.2 LB A/A 0.25 % V/V								
V-10142 NIS								
0.3 LB A/A 0.25 % V/V								
5 None	26 a	26 a	29 a	25 a	28 a	18 ab	8 a	2 a
6 V-10142 NIS	27 a	29 a	29 a	30 a	29 a	22 a	10 a	3 a
0.3 LB A/A 0.25 % V/V								
V-10142 NIS								
0.4 LB A/A 0.25 % V/V								
7 Chateau V-10142 NIS	29 a	30 a	28 a	30 a	28 a	18 ab	9 a	2 a
3 OZ/A 0.3 LB A/A 0.25 % V/V								
8 Chateau NIS	29 a	27 a	29 a	28 a	28 a	18 ab	8 a	3 a
3 OZ/A 0.25 % V/V								
9 Chateau NIS	29 a	29 a	30 a	26 a	28 a	15 ab	7 a	4 a
3 OZ/A 0.25 % V/V								
Dual Magnum								
1 PT/A								
LSD (P=.05)	5.3	5.8	5.1	6.2	2.1	7.3	2.8	2.9
Standard Deviation	3.7	4.0	3.5	4.2	1.5	5.0	1.9	2.0
CV	13.02	14.43	12.41	15.31	5.24	29.08	24.2	79.0
Bartlett's X2	3.745	13.644	6.826	8.859	6.822	6.262	5.803	6.965
P(Bartlett's X2)	0.879	0.092	0.555	0.354	0.556	0.618	0.669	0.54

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

Column 21: T2 = @AVG([C13],[C20])

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Weed Code	harv 2 LYPES	harv 2 LYPES	harv 2 LYPES	harv 2 LYPES	harv 2 LYPES	harv 2 LYPES	harv 2 LYPES	harv 3 LYPES	
Crop Code	jumbo	large	large	medium	medium	small	small	jumbo	
Rating Data Type	wt/lbs	#	wt/lbs	#	wt/lbs	#	wt/lbs	#	
Rating Unit	May-31-07	May-31-07	May-31-07	May-31-07	May-31-07	May-31-07	May-31-07	Jun-07-07	
Rating Date	73 DA-A	73 DA-A	73 DA-A	73 DA-A	73 DA-A	73 DA-A	73 DA-A	80 DA-A	
Assessed By	ARM Action Codes								
Trt	Trt Treatment								
Treatment	Rate								
No.	Rate Unit								
Name	25	26	27	28	29	30	31	32	
1 V-10142 NIS	0.2 LB A/A 0.25 % V/V	1 a	3 a	1 a	4 a	1 a	1 a	0 a	5 a
2 V-10142 NIS	0.3 LB A/A 0.25 % V/V	1 a	3 a	1 a	3 a	1 a	1 a	0 a	5 a
3 V-10142 NIS	0.4 LB A/A 0.25 % V/V	1 a	5 a	2 a	3 a	1 a	1 a	0 a	4 ab
4 V-10142 NIS V-10142 NIS	0.2 LB A/A 0.25 % V/V 0.3 LB A/A 0.25 % V/V	1 a	3 a	1 a	2 a	0 a	2 a	0 a	4 ab
5 None		1 a	3 a	1 a	3 a	1 a	1 a	0 a	2 b
6 V-10142 NIS V-10142 NIS	0.3 LB A/A 0.25 % V/V 0.4 LB A/A 0.25 % V/V	1 a	2 a	1 a	2 a	1 a	2 a	0 a	2 b
7 Chateau V-10142 NIS	3 OZ/A 0.3 LB A/A 0.25 % V/V	1 a	5 a	2 a	3 a	1 a	1 a	0 a	4 ab
8 Chateau NIS	3 OZ/A 0.25 % V/V	1 a	4 a	1 a	2 a	0 a	1 a	0 a	5 a
9 Chateau NIS Dual Magnum	3 OZ/A 0.25 % V/V 1 PT/A	2 a	2 a	1 a	3 a	1 a	1 a	0 a	4 ab
LSD (P=.05)	1.3	3.7	1.3	2.4	0.7	1.4	0.2	2.4	
Standard Deviation	0.9	2.5	0.9	1.7	0.5	1.0	0.2	1.6	
CV	83.79	78.27	79.6	63.54	67.18	107.3	106.58	44.45	
Bartlett's X2	7.266	7.818	8.329	5.258	8.88	5.756	6.706	12.688	
P(Bartlett's X2)	0.508	0.451	0.402	0.73	0.353	0.675	0.569	0.123	

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

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Weed Code	harv 3 LYPES	harv 3 LYPES	harv 3 LYPES	harv 3 LYPES	harv 3 LYPES	harv 3 LYPES	harv 3 LYPES	harv 4 LYPES	
Crop Code	jumbo	large	large	medium	medium	small	small	jumbo	
Rating Data Type	wt/lbs	#	wt/lbs	#	wt/lbs	#	wt/lbs	#	
Rating Unit	Jun-07-07	Jun-07-07	Jun-07-07	Jun-07-07	Jun-07-07	Jun-07-07	Jun-07-07	Jun-14-07	
Rating Date	80 DA-A	80 DA-A	80 DA-A	80 DA-A	80 DA-A	80 DA-A	80 DA-A	87 DA-A	
Assessed By	ARM Action Codes								
Trt Treatment	Rate								
No. Name	Rate Unit	33	34	35	36	37	38	39	40
1 V-10142 NIS	0.2 LB A/A 0.25 % V/V	3 a	1 b	0 a	4 a	1 a	2 ab	0 bc	20 a
2 V-10142 NIS	0.3 LB A/A 0.25 % V/V	3 a	4 ab	2 a	4 a	1 a	3 ab	0 abc	18 a
3 V-10142 NIS	0.4 LB A/A 0.25 % V/V	2 abc	5 ab	2 a	4 a	1 a	2 ab	0 bc	19 a
4 V-10142 NIS V-10142 NIS	0.2 LB A/A 0.25 % V/V 0.3 LB A/A 0.25 % V/V	2 abc	5 a	2 a	4 a	1 a	4 a	1 ab	17 a
5 None		1 c	4 ab	1 a	5 a	1 a	3 ab	0 abc	18 a
6 V-10142 NIS V-10142 NIS	0.3 LB A/A 0.25 % V/V 0.4 LB A/A 0.25 % V/V	1 bc	4 ab	34 a	3 a	1 a	4 a	1 a	15 a
7 Chateau V-10142 NIS	3 OZ/A 0.3 LB A/A 0.25 % V/V	2 abc	5 a	2 a	3 a	1 a	1 b	0 c	16 a
8 Chateau NIS	3 OZ/A 0.25 % V/V	2 ab	3 ab	1 a	3 a	1 a	2 ab	0 bc	16 a
9 Chateau NIS Dual Magnum	3 OZ/A 0.25 % V/V 1 PT/A	2 abc	3 ab	1 a	4 a	1 a	2 ab	0 bc	19 a
LSD (P=.05)		1.3	3.0	31.2	3.0	0.9	2.5	0.4	5.4
Standard Deviation		0.9	2.0	21.4	2.0	0.6	1.7	0.3	3.7
CV		46.21	55.58	429.51	55.47	57.11	72.02	71.69	21.23
Bartlett's X2		13.878	16.87	144.361	1.601	2.334	5.013	5.477	22.391
P(Bartlett's X2)		0.085	0.031*	0.001*	0.991	0.969	0.756	0.706	0.004*

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

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Weed Code	harv 4 LYPES	harv 4 LYPES	harv 4 LYPES	harv 4 LYPES	harv 4 LYPES	harv 4 LYPES	harv 4 LYPES	harv 5 LYPES			
Crop Code	jumbo	large	large	medium	medium	small	small	jumbo			
Rating Data Type	wt/lbs	#	wt/lbs	#	wt/lbs	#	wt/lbs	#			
Rating Unit	Jun-14-07	Jun-14-07	Jun-14-07	Jun-14-07	Jun-14-07	Jun-14-07	Jun-14-07	Jun-20-07			
Rating Date	87 DA-A	87 DA-A	87 DA-A	87 DA-A	87 DA-A	87 DA-A	87 DA-A	93 DA-A			
Assessed By	ARM Action Codes										
Trt-Eval Interval											
ARM Action Codes											
Trt No.	Treatment Name	Rate	Rate Unit	41	42	43	44	45	46	47	48
1	V-10142 NIS	0.2 0.25	LB A/A % V/V	11 a	9 ab	3 ab	6 a	2 a	4 a	9 a	37 a
2	V-10142 NIS	0.3 0.25	LB A/A % V/V	10 a	8 ab	3 ab	4 a	1 a	6 a	1 a	35 a
3	V-10142 NIS	0.4 0.25	LB A/A % V/V	11 a	6 b	2 b	3 a	1 a	4 a	1 a	39 a
4	V-10142 NIS V-10142 NIS	0.2 0.25 0.3 0.25	LB A/A % V/V LB A/A % V/V	9 a	9 ab	3 ab	6 a	1 a	6 a	1 a	38 a
5	None			10 a	8 ab	3 ab	4 a	1 a	6 a	1 a	36 a
6	V-10142 NIS V-10142 NIS	0.3 0.25 0.4 0.25	LB A/A % V/V LB A/A % V/V	8 a	11 a	4 a	4 a	1 a	4 a	1 a	32 a
7	Chateau V-10142 NIS	3 0.3 0.25	OZ/A LB A/A % V/V	8 a	9 ab	3 ab	3 a	1 a	5 a	1 a	45 a
8	Chateau NIS	3 0.25	OZ/A % V/V	9 a	10 ab	4 ab	5 a	1 a	4 a	1 a	43 a
9	Chateau NIS Dual Magnum	3 0.25 1	OZ/A % V/V PT/A	11 a	7 ab	3 ab	4 a	1 a	8 a	20 a	41 a
LSD (P=.05)				3.4	4.2	1.6	3.2	0.9	3.9	20.0	13.8
Standard Deviation				2.3	2.9	1.1	2.2	0.6	2.7	13.7	9.5
CV				23.96	33.81	33.65	53.84	52.43	52.42	363.5	24.73
Bartlett's X2				24.268	12.185	12.195	10.572	8.257	16.05	132.359	18.842
P(Bartlett's X2)				0.002*	0.143	0.143	0.227	0.409	0.042*	0.001*	0.016*

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

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Weed Code	harv 5 LYPES	harv 5 LYPES	harv 5 LYPES	harv 5 LYPES	harv 5 LYPES	harv 5 LYPES	harv 5 LYPES	harv 6 LYPES	
Crop Code	jumbo	large	large	medium	medium	small	small	jumbo	
Rating Data Type	wt/lbs	#	wt/lbs	#	wt/lbs	#	wt/lbs	#	
Rating Unit	Jun-20-07	Jun-20-07	Jun-20-07	Jun-20-07	Jun-20-07	Jun-20-07	Jun-20-07	Jun-27-07	
Rating Date	93 DA-A	93 DA-A	93 DA-A	93 DA-A	93 DA-A	93 DA-A	93 DA-A	100 DA-A	
Assessed By	ARM Action Codes								
Trt	Trt Treatment								
Treatment	Rate								
No.	Rate Unit								
Name	49	50	51	52	53	54	55	56	
1 V-10142 NIS	0.2 LB A/A 0.25 % V/V	24 a	15 a	6 a	2 a	1 b	5 ab	1 a	78 a
2 V-10142 NIS	0.3 LB A/A 0.25 % V/V	23 a	14 a	7 a	5 a	1 ab	4 ab	1 a	63 bc
3 V-10142 NIS	0.4 LB A/A 0.25 % V/V	27 a	15 a	6 a	5 a	2 ab	3 ab	0 a	58 c
4 V-10142 NIS V-10142 NIS	0.2 LB A/A 0.25 % V/V 0.3 LB A/A 0.25 % V/V	25 a	13 a	5 a	5 a	1 ab	6 a	1 a	71 ab
5 None		26 a	12 a	5 a	5 a	2 ab	6 ab	1 a	76 a
6 V-10142 NIS V-10142 NIS	0.3 LB A/A 0.25 % V/V 0.4 LB A/A 0.25 % V/V	22 a	13 a	7 a	6 a	2 a	4 ab	1 a	71 ab
7 Chateau V-10142 NIS	3 OZ/A 0.3 LB A/A 0.25 % V/V	30 a	15 a	6 a	3 a	1 ab	5 ab	1 a	79 a
8 Chateau NIS	3 OZ/A 0.25 % V/V	29 a	11 a	4 a	4 a	1 ab	2 b	0 a	75 a
9 Chateau NIS Dual Magnum	3 OZ/A 0.25 % V/V 1 PT/A	28 a	12 a	5 a	5 a	1 ab	5 ab	1 a	71 ab
LSD (P=.05)	8.4	5.1	3.9	3.6	1.1	3.1	0.5	7.8	
Standard Deviation	5.8	3.5	2.7	2.5	0.7	2.1	0.4	5.3	
CV	22.19	26.78	47.45	57.63	57.34	50.21	54.44	7.47	
Bartlett's X2	17.834	13.65	19.871	6.447	11.093	3.794	5.404	12.728	
P(Bartlett's X2)	0.023*	0.091	0.011*	0.597	0.196	0.875	0.714	0.122	

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

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Weed Code	harv 6	harv 6	harv 6	harv 6	harv 6	HAR1-6	HAR1-6	HAR1-6	HAR1-6			
Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES			
Rating Data Type	jumbo	large	large	med/sm	med/sm	jumbo	jumbo	large	large			
Rating Unit	wt/lbs	#	wt/lbs	#	wt/lbs	#	wt/lbs	#	wt/lbs			
Rating Date	Jun-27-07	Jun-27-07	Jun-27-07	Jun-27-07	Jun-27-07							
Assessed By												
Trt-Eval Interval	100 DA-A	100 DA-A	100 DA-A	100 DA-A	100 DA-A							
ARM Action Codes						T3	T4	T5	T6			
Trt No.	Treatment Name	Rate	Unit	57	58	59	60	61	63	64	65	66
1	V-10142 NIS	0.2 0.25	LB A/A % V/V	51 ab	22 a	9 a	4 a	1 a	160 a	97 ab	50 a	20 b
2	V-10142 NIS	0.3 0.25	LB A/A % V/V	40 c	24 a	10 a	3 a	0 a	137 b	84 c	53 a	23 b
3	V-10142 NIS	0.4 0.25	LB A/A % V/V	40 c	20 a	9 a	4 a	0 a	138 b	89 bc	49 a	20 b
4	V-10142 NIS V-10142 NIS	0.2 0.25 0.3 0.25	LB A/A % V/V LB A/A % V/V	46 bc	28 a	11 a	2 a	1 a	148 ab	90 bc	57 a	22 b
5	None			53 a	24 a	10 a	3 a	0 a	152 ab	99 ab	50 a	21 b
6	V-10142 NIS V-10142 NIS	0.3 0.25 0.4 0.25	LB A/A % V/V LB A/A % V/V	47 ab	25 a	11 a	3 a	0 a	144 ab	89 bc	55 a	57 a
7	Chateau V-10142 NIS	3 0.3 0.25	OZ/A LB A/A % V/V	51 ab	26 a	11 a	3 a	0 a	163 a	101 a	59 a	23 b
8	Chateau NIS	3 0.25	OZ/A % V/V	51 ab	26 a	11 a	3 a	1 a	160 a	100 ab	54 a	22 b
9	Chateau NIS Dual Magnum	3 0.25 1	OZ/A % V/V PT/A	48 ab	26 a	11 a	4 a	1 a	154 ab	98 ab	50 a	20 b
LSD (P=.05)				5.6	11.0	4.6	3.2	0.7	17.2	10.2	16.8	30.0
Standard Deviation				3.9	7.6	3.2	2.2	0.5	11.8	7.0	11.5	20.6
CV				8.14	30.93	30.65	72.58	90.35	7.82	7.42	21.71	81.24
Bartlett's X2				12.338	9.677	9.221	14.418	26.177	7.602	14.639	6.82	55.737
P(Bartlett's X2)				0.137	0.288	0.324	0.072	0.001*	0.473	0.067	0.556	0.001*

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

Column 62: T3 = [C22]+[C24]+[C32]+[C40]+[C48]+[C56]

Column 63: T4 = [C23]+[C25]+[C33]+[C41]+[C49]+[C57]

Column 64: T5 = [C26]+[C34]+[C42]+[C50]+[C58]

Column 65: T6 = [C27]+[C35]+[C43]+[C51]+[C59]

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Weed Code			HAR1-6	HAR1-6
Crop Code			LYPES	LYPES
Rating Data Type			med/sm	med/sm
Rating Unit			#	wt/lbs
Rating Date				
Assessed By				
Trt-Eval Interval				
ARM Action Codes			T7	T8
Trt No.	Treatment Name	Rate		
		Rate Unit	67	68
1	V-10142 NIS	0.2 LB A/A 0.25 % V/V	30 ab	15 a
2	V-10142 NIS	0.3 LB A/A 0.25 % V/V	31 ab	7 a
3	V-10142 NIS	0.4 LB A/A 0.25 % V/V	27 ab	6 a
4	V-10142 NIS V-10142 NIS	0.2 LB A/A 0.25 % V/V 0.3 LB A/A 0.25 % V/V	36 a	8 a
5	None		35 ab	8 a
6	V-10142 NIS V-10142 NIS	0.3 LB A/A 0.25 % V/V 0.4 LB A/A 0.25 % V/V	31 ab	7 a
7	Chateau V-10142 NIS	3 OZ/A 0.3 LB A/A 0.25 % V/V	25 ab	6 a
8	Chateau NIS	3 OZ/A 0.25 % V/V	25 b	6 a
9	Chateau NIS Dual Magnum	3 OZ/A 0.25 % V/V 1 PT/A	33 ab	26 a
LSD (P=.05)			9.4	20.3
Standard Deviation			6.5	13.9
CV			21.42	143.85
Bartlett's X2			17.343	83.962
P(Bartlett's X2)			0.027*	0.001*

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

Column 66: T7 = [C28]+[C36]+[C44]+[C52]+[C60]+[C30]+[C38]+[C46]+[C54]

Column 67: T8 = [C29]+[C37]+[C45]+[C53]+[C61]+[C31]+[C39]+[C47]+[C55]

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Totmato and weed response to V-10142 and Chateau.

Trial ID: Veg22-07 Study Dir.: Stanley Culpepper
 Location: Ponder Farm 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: 31795 **Initiation Date:** Feb-26-07
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: LYPES tomato **Variety:** Amelia
Planting Date: Mar-22-07 **Planting Method:** TRANSPLANTED - HAND
Rate: 1 18 inch **Depth:** 1 in **Perennial Age:** _____
Row Spacing: 6 ft **Spacing Within Row:** 18 in **Seed Bed:** mulch
Soil Temperature: 75 F **Soil Moisture:** drip **Emergence Date:** _____

SITE AND DESIGN

Plot Width, Unit: 6 FT **Plot Length, Unit:** 20 FT **Reps:** 4
Site Type: Research Station
Tillage Type: Plasticulture **Study Design:** RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

MAINTENANCE

Field Prep./Maintenance:

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

SOIL DESCRIPTION

% Sand: 94 % OM: 6.4 Texture: Sand
 % Silt: 2 pH: 1.3 Soil Name: Tifton sandy loam
 % Clay: 4 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	B	C
Application Date:	Mar-19-07	Apr-08-07	Apr-30-07
Time of Day:	4:00 pm	5:00 pm	3:00 pm
Application Method:	band	broadcast	broadcast
Application Timing:	PREPLANT	POST	PD
Applic. Placement:	row middl	overtop	directed
Air Temp., Unit:	61 F	57 f	89 F
% Relative Humidity:	40	29	25
Wind Velocity, Unit:	3 mph	3 mph	0 mph
Dew Presence (Y/N):	n	n	n
Water Hardness:			
Soil Temp., Unit:	61 F	70 F	100 F
Soil Moisture:	fair	moist	moist
% Cloud Cover:	0	25	0

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	LYPES preplant	LYPES POST	LYPES PD
Stage Scale:	not up	8 leaf	2"fruit
Height, Unit:	0 inch	10 inch	24 inch

WEED STAGE AT EACH APPLICATION

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

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APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	backpack	backpack	backpack
Operating Pressure:	28	24	28
Nozzle Type:	flat fan	flat fan	flat fan
Nozzle Size:	8002 E	11002	8002 E
Nozzle Spacing, Unit:	32 in	18 in	32 in
Nozzles/Row:	1	2	1
Band Width, Unit:			
Boom Length, Unit:		4.5 ft	
Boom Height, Unit:	20 in	15 in	20 in
Ground Speed, Unit:	3 mph	3 mph	3 mph
Incorporation Equip.:			
Hours to Incorp.:			
Incorp. Depth, Unit:			
Carrier:	water	water	water
Spray Volume, Unit:	14.8 GPA	14.8 GPA	14.8 GPA
Spray pH:			
Propellant:	CO2	CO2	CO2
Tank Mix (Y/N):	Y	Y	Y

Trt No	Treatment Application Comment