

University of Georgia

Tomato, watermelon, and squash response to glyphosate drift situations.

Trial ID: Veg41-03
Location: Ponder farm

Study Dir.: Culpepper
Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

Study Director: Culpepper **Title:** ext. weed science
Affiliation: University of Georgia
Postal Code: 31794
Investigator: Stanley Culpepper **Title:** ext. weed science
Affiliation: University of Georgia
Postal Code: 31794

TRIAL LOCATION

City: TyTy **Trial Status:** completed
State/Prov.: Ga **Trial Reliability:** good
Postal Code: 31795 **Initiation Date:** Jul-15-03
Country: U.S.A.

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Crop 1: LYPES TOMATO **Variety:** Amelia
Planting Date: Aug-06-03 **Planting Method:** transplant
Rate: 1 18 inch **Depth:** 1.5 in
Row Spacing: 6 feet **Spacing Within Row:** 18 inch **Seed Bed:** plastic
Soil Temperature: 95 F **Soil Moisture:** drip

Crop 2: CUUPE SQUASH, SUMMER **Variety:** Enterprise
Planting Date: Aug-06-03 **Planting Method:** transplant
Rate: 1 12 inch **Depth:** 1.5 in
Row Spacing: 6 feet **Spacing Within Row:** 12 inch **Seed Bed:** plastic
Soil Temperature: 95 F **Soil Moisture:** drip

Crop 3: CITLA WATERMELON **Variety:** Margaritia
Planting Date: Aug-06-03 **Planting Method:** transplant
Rate: 1 18 inch **Depth:** 1.5 in
Row Spacing: 6 feet **Spacing Within Row:** 18 inch **Seed Bed:** plastic
Soil Temperature: 95 F **Soil Moisture:** drip

SITE AND DESIGN

Plot Width, Unit: 6 FT **Plot Length, Unit:** 25 FT **Reps:** 3
Site Type: research station
Tillage Type: plasticulture **Study Design:** RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 94 **% OM:** 1.1 **Texture:** sand
% Silt: 2 **pH:** 6.4 **Soil Name:** Tifton sandy loam
% Clay: 4

APPLICATION DESCRIPTION

	A
Application Date:	Aug-26-03
Time of Day:	12:00 pm
Application Method:	broadcast
Application Timing:	POST
Applic. Placement:	overtop
Air Temp., Unit:	88 f
% Relative Humidity:	56
Wind Velocity, Unit:	1 mph
Dew Presence (Y/N):	n
Soil Temp., Unit:	94 F
Soil Moisture:	moist
% Cloud Cover:	20

University of Georgia

CROP STAGE AT EACH APPLICATION

A	
Crop 1 Code, Stage:	LYPES POST
Stage Scale:	3 WATrans
Height, Unit:	15 inch
Crop 2 Code, Stage:	CUUPE POST
Stage Scale:	1stpickin
Height, Unit:	15 inch
Crop 3 Code, Stage:	CITLA POST
Stage Scale:	runners
Height, Unit:	35 inch

APPLICATION EQUIPMENT

A	
Appl. Equipment:	backpack
Operating Pressure:	22
Nozzle Type:	flat fan
Nozzle Size:	11002
Nozzle Spacing, Unit:	18 inch
Boom Length, Unit:	4.5 feet
Boom Height, Unit:	15 inch
Ground Speed, Unit:	3 mph
Carrier:	water
Spray Volume, Unit:	14.8 GPA
Propellant:	CO2
Tank Mix (Y/N):	Y

University of Georgia

Tomato, watermelon, and squash response to glyphosate drift situations.

Trial ID: Veg41-03

Study Dir.: Culpepper

Location: Ponder farm

Investigator: Stanley Culpepper

Weed Code	tomato	watermel	squash	tomato	tomato	tomato	tomato	tomato			
Crop Code	tomato	watermel	squash	tomato	tomato	tomato	tomato	tomato			
Rating Data Type	injury	injury	injury	ht	ht	ht	ht	ht			
Rating Unit	percent	perent	percent	cm	cm	cm	cm	cm			
Rating Date	Sep-05-03	Sep-05-03	Sep-05-03	Sep-24-03	Sep-24-03	Sep-24-03	Sep-24-03	Sep-24-03			
Trt-Eval Interval	10 DA-A	10 DA-A	10 DA-A	29 DA-A	29 DA-A	29 DA-A	29 DA-A	29 DA-A			
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7	8
1	WeatherMax	1	oz/a	5.0	1.7	5.0	74.7	81.0	77.3	76.0	80.7
2	WeatherMax	4	oz/a	23.3	20.0	26.7	77.3	73.3	74.3	65.7	71.3
3	Non-treated			0.0	0.0	0.0	85.7	80.0	78.0	82.0	84.7
LSD (P=.05)				22.98	15.11	22.03	9.28	14.62	15.34	23.64	9.82
Standard Deviation				10.14	6.67	9.72	4.10	6.45	6.77	10.43	4.33
CV				107.34	92.31	92.07	5.17	8.26	8.84	13.99	5.49
Bartlett's X2				1.94	2.324	1.94	0.964	1.705	6.936	7.157	0.151
P(Bartlett's X2)				0.164	0.127	0.164	0.617	0.426	0.031*	0.028*	0.927

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

University of Georgia

Weed Code						AVG10pla		
Crop Code	tomato	tomato	tomato	tomato	tomato	tomato	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-24-03	Sep-24-03	Sep-24-03	Sep-24-03	Sep-24-03	Sep-24-03	Sep-24-03	Sep-24-03
Trt-Eval Interval	29 DA-A	29 DA-A	29 DA-A	29 DA-A	29 DA-A	29 DA-A	29 DA-A	29 DA-A
ARM Action Codes						T1		
# Subsamples, Dec.						1		
Trt Treatment								
No. Name Rate Unit	9	10	11	12	13	14	15	16
1 WeatherMax 1 oz/a	77.3	81.7	80.3	80.7	82.0	79.2	43.7	45.0
2 WeatherMax 4 oz/a	75.3	74.0	69.7	77.7	76.3	73.5	47.0	43.3
3 Non-treated	77.3	80.7	87.7	90.0	87.3	83.3	47.3	54.0
LSD (P=.05)	8.43	9.51	10.82	9.56	10.90	7.90	25.41	14.68
Standard Deviation	3.72	4.20	4.77	4.22	4.81	3.48	11.21	6.48
CV	4.85	5.33	6.02	5.09	5.87	4.43	24.37	13.65
Bartlett's X2	1.962	1.702	1.157	1.534	0.298	2.726	2.724	1.676
P(Bartlett's X2)	0.375	0.427	0.561	0.464	0.862	0.256	0.256	0.433

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

Column 14: T1 = @AVG([C4].[C13])

University of Georgia

Weed Code				AVG5plan					
Crop Code	squash	squash	squash	squash	watermel	watermel	watermel	watermel	watermel
Rating Data Type	ht	ht	ht	ht	diameter	diameter	diameter	diameter	diameter
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	cm
Rating Date	Sep-24-03	Sep-24-03	Sep-24-03	Sep-24-03	Sep-04-03	Sep-04-03	Sep-04-03	Sep-04-03	Sep-04-03
Trt-Eval Interval	29 DA-A	29 DA-A	29 DA-A	29 DA-A	9 DA-A	9 DA-A	9 DA-A	9 DA-A	9 DA-A
ARM Action Codes				T2					
# Subsamples, Dec.				1					
Trt Treatment									
No. Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate
1 WeatherMax	1 oz/a	18	19	20	21	22	23	24	
2 WeatherMax	4 oz/a	49.3	53.3	55.7	49.4	140.0	127.0	114.7	143.0
3 Non-treated		45.0	45.3	44.3	45.0	89.7	83.0	85.0	90.3
		46.3	60.0	52.3	52.0	151.3	106.0	106.7	86.7
LSD (P=.05)		19.71	15.39	19.25	13.44	81.11	30.31	49.48	191.26
Standard Deviation		8.70	6.79	8.49	5.93	35.79	13.37	21.83	84.38
CV		18.54	12.84	16.72	12.15	28.18	12.7	21.38	79.11
Bartlett's X2		0.189	0.576	0.777	2.286	4.843	7.091	1.768	0.424
P(Bartlett's X2)		0.91	0.75	0.678	0.319	0.089	0.029*	0.413	0.809

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

Column 20: T2 = @AVG([C15],[C19])

University of Georgia

Weed Code		AVG5plan						AVG5plan	
Crop Code	watermel	watermel	squash	squash	squash	squash	squash	squash	
Rating Data Type	diameter	diameter	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Sep-04-03	Sep-04-03	Sep-04-03	Sep-04-03	Sep-04-03	Sep-04-03	Sep-04-03	Sep-04-03	
Trt-Eval Interval	9 DA-A	9 DA-A	9 DA-A	9 DA-A	9 DA-A	9 DA-A	9 DA-A	9 DA-A	
ARM Action Codes		T3						T4	
# Subsamples, Dec.		1						1	
Trt Treatment	Rate								
No. Name	Rate Unit	25	26	27	28	29	30	31	32
1 WeatherMax	1 oz/a	37.3	112.4	41.0	44.3	38.3	35.7	40.3	39.9
2 WeatherMax	4 oz/a	83.7	86.3	33.3	37.7	39.3	31.7	22.0	32.8
3 Non-treated		74.3	105.0	40.7	40.0	37.3	37.0	37.0	38.4
LSD (P=.05)		157.77	39.15	15.48	12.89	17.19	12.57	32.65	11.40
Standard Deviation		69.61	17.27	6.83	5.69	7.58	5.55	14.40	5.03
CV		106.9	17.06	17.82	13.98	19.78	15.95	43.5	13.58
Bartlett's X2		3.79	1.17	2.867	0.16	0.266	2.844	6.894	0.488
P(Bartlett's X2)		0.15	0.557	0.238	0.923	0.875	0.241	0.032*	0.784

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

Column 26: T3 = @AVG([C21],[C25])

Column 32: T4 = @AVG([C27],[C31])

University of Georgia

Weed Code									
Crop Code	tomato	tomato	tomato	tomato	tomato	tomato	tomato	tomato	tomato
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	cm
Rating Date	Sep-04-03	Sep-04-03	Sep-04-03	Sep-04-03	Sep-04-03	Sep-04-03	Sep-04-03	Sep-04-03	Sep-04-03
Trt-Eval Interval	9 DA-A	9 DA-A	9 DA-A	9 DA-A	9 DA-A	9 DA-A	9 DA-A	9 DA-A	9 DA-A
ARM Action Codes									
# Subsamples, Dec.									
Trt No.									
Treatment Name									
Rate									
Unit									
	33	34	35	36	37	38	39	40	
1 WeatherMax	1 oz/a	42.3	36.3	35.3	38.0	39.3	41.3	39.7	21.7
2 WeatherMax	4 oz/a	42.0	37.0	41.3	133.7	35.0	37.7	37.0	38.7
3 Non-treated		43.0	41.0	42.3	40.7	46.3	46.7	40.7	40.7
LSD (P=.05)		9.99	14.59	16.08	223.98	11.21	5.21	7.09	24.08
Standard Deviation		4.41	6.44	7.09	98.82	4.94	2.30	3.13	10.62
CV		10.39	16.89	17.89	139.62	12.29	5.48	8.0	31.55
Bartlett's X2		3.334	2.76	1.862	20.164	0.897	0.903	0.223	11.266
P(Bartlett's X2)		0.189	0.252	0.394	0.001*	0.639	0.637	0.894	0.004*

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

University of Georgia

Weed Code			AVG10pla	Harv1	Harv1	Harv1	Harv1	Harv2
Crop Code	tomato	tomato	tomato	squash	squash	squash	squash	squash
Rating Data Type	ht	ht	ht	fruit	fruit	cull	cull wt	fruit
Rating Unit	cm	cm	cm	#/plot	lb/plot	#/plot	lb/plot	#/plot
Rating Date	Sep-04-03	Sep-04-03	Sep-04-03	Aug-29-03	Aug-29-03	Aug-29-03	Aug-29-03	Sep-01-03
Trt-Eval Interval	9 DA-A	9 DA-A	9 DA-A	3 DA-A	3 DA-A	3 DA-A	3 DA-A	6 DA-A
ARM Action Codes			T5					
# Subsamples, Dec.			1					
Trt Treatment								
No. Name	Rate	Rate						
1 WeatherMax	1 oz/a	37.7	42	43	44	45	46	47
2 WeatherMax	4 oz/a	35.0	41.3	47.9	2.0	0.3	0.0	0.0
3 Non-treated		42.0	40.7	42.4	3.0	0.5	0.0	0.0
LSD (P=.05)		25.28	5.21	20.91	2.00	0.73	0.00	0.00
Standard Deviation		11.16	2.30	9.23	0.88	0.32	0.00	0.00
CV		29.19	5.71	21.75	39.69	85.55	0.0	0.0
Bartlett's X2		0.618	0.522	10.775	0.038	2.311	0.0	0.0
P(Bartlett's X2)		0.734	0.77	0.005*	0.845	0.315	.	.

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

Column 43: T5 = @AVG([C33],[C42])

University of Georgia

Weed Code	Harv2	Harv2	Harv2	Harv3	Harv3	Harv3	Harv3	Harv4			
Crop Code	squash	squash	squash	squash	squash	squash	squash	squash			
Rating Data Type	fruit	cull	cull wt	fruit	fruit	cull	cull wt	fruit			
Rating Unit	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot			
Rating Date	Sep-01-03	Sep-01-03	Sep-01-03	Sep-03-03	Sep-03-03	Sep-03-03	Sep-03-03	Sep-05-03			
Trt-Eval Interval	6 DA-A	6 DA-A	6 DA-A	8 DA-A	8 DA-A	8 DA-A	8 DA-A	10 DA-A			
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Unit	49	50	51	52	53	54	55	56
1	WeatherMax	1	oz/a	1.5	0.0	0.0	4.0	0.5	0.0	0.0	5.0
2	WeatherMax	4	oz/a	0.5	0.0	0.0	5.0	0.5	0.0	0.0	3.0
3	Non-treated			1.1	0.0	0.0	3.7	0.9	0.0	0.0	6.0
LSD (P=.05)				1.12	0.00	0.00	4.00	0.40	0.00	0.00	5.32
Standard Deviation				0.49	0.00	0.00	1.76	0.18	0.00	0.00	2.35
CV				47.34	0.0	0.0	41.78	27.37	0.0	0.0	50.25
Bartlett's X2				2.005	0.0	0.0	0.871	1.795	0.0	0.0	0.531
P(Bartlett's X2)				0.367	.	.	0.647	0.408	.	.	0.466

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

University of Georgia

Weed Code	Harv4	Harv4	Harv4	Harv5	Harv5	Harv5	Harv5	Harv6			
Crop Code	squash	squash	squash	squash	squash	squash	squash	squash			
Rating Data Type	fruit	cull	cull wt	fruit	fruit	cull	cull wt	fruit			
Rating Unit	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot			
Rating Date	Sep-05-03	Sep-05-03	Sep-05-03	Sep-08-03	Sep-08-03	Sep-08-03	Sep-08-03	Sep-10-03			
Trt-Eval Interval	10 DA-A	10 DA-A	10 DA-A	13 DA-A	13 DA-A	13 DA-A	13 DA-A	15 DA-A			
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Unit	57	58	59	60	61	62	63	64
1	WeatherMax	1	oz/a	1.3	0.0	0.0	3.7	1.1	0.0	0.0	9.7
2	WeatherMax	4	oz/a	0.3	2.0	0.1	0.7	0.1	5.7	0.3	3.0
3	Non-treated			1.7	0.7	0.1	4.3	1.0	0.0	0.0	2.3
LSD (P=.05)				1.39	4.95	0.40	4.78	1.51	6.46	0.30	3.70
Standard Deviation				0.61	2.19	0.18	2.11	0.67	2.85	0.13	1.63
CV				55.79	245.9	198.43	72.98	88.24	150.78	150.0	32.66
Bartlett's X2				0.452	4.158	0.824	0.818	2.142	0.0	0.0	0.28
P(Bartlett's X2)				0.798	0.041*	0.364	0.664	0.343	.	.	0.869

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

University of Georgia

Weed Code	Harv6	Harv6	Harv6	Harv7	Harv7	Harv7	Harv7	Harv8			
Crop Code	squash	squash	squash	squash	squash	squash	squash	squash			
Rating Data Type	fruit	cull	cull wt	fruit	fruit	cull	cull wt	fruit			
Rating Unit	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot			
Rating Date	Sep-10-03	Sep-10-03	Sep-10-03	Sep-12-03	Sep-12-03	Sep-12-03	Sep-12-03	Sep-16-03			
Trt-Eval Interval	15 DA-A	15 DA-A	15 DA-A	17 DA-A	17 DA-A	17 DA-A	17 DA-A	21 DA-A			
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Unit	65	66	67	68	69	70	71	72
1	WeatherMax	1	oz/a	1.7	0.0	0.0	7.0	1.7	0.0	0.0	10.3
2	WeatherMax	4	oz/a	0.7	1.7	0.1	2.0	0.6	0.7	0.1	5.0
3	Non-treated			0.3	1.3	0.5	12.7	2.7	0.7	0.2	12.0
LSD (P=.05)				0.90	3.46	0.99	9.10	2.45	1.51	0.40	7.09
Standard Deviation				0.40	1.53	0.44	4.01	1.08	0.67	0.18	3.13
CV				43.6	152.75	245.9	55.58	64.81	150.0	198.43	34.32
Bartlett's X2				1.911	0.091	4.7	0.518	0.07	0.0	1.886	2.811
P(Bartlett's X2)				0.385	0.763	0.03*	0.772	0.966	1.00	0.17	0.245

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

University of Georgia

Weed Code	Harv8	Harv8	Harv8	Harv9	Harv9	Harv9	Harv9	Harv10			
Crop Code	squash	squash	squash	squash	squash	squash	squash	squash			
Rating Data Type	fruit	cull	cull wt	fruit	fruit	cull	cull wt	fruit			
Rating Unit	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot			
Rating Date	Sep-16-03	Sep-16-03	Sep-16-03	Sep-17-03	Sep-17-03	Sep-17-03	Sep-17-03	Sep-19-03			
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	22 DA-A	22 DA-A	22 DA-A	22 DA-A	24 DA-A			
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Unit	73	74	75	76	77	78	79	80
1	WeatherMax	1	oz/a	3.8	0.0	0.0	5.0	1.0	0.0	0.0	4.0
2	WeatherMax	4	oz/a	1.3	0.7	0.2	2.0	0.3	0.3	0.1	0.3
3	Non-treated			4.7	0.3	0.1	2.0	0.4	0.0	0.0	3.0
LSD (P=.05)				3.23	1.85	0.60	7.17	1.56	0.76	0.15	2.39
Standard Deviation				1.42	0.82	0.27	3.16	0.69	0.33	0.07	1.05
CV				43.58	244.95	240.0	105.41	123.98	300.0	300.0	43.12
Bartlett's X2				2.151	0.824	0.296	0.0	0.314	0.0	0.0	2.324
P(Bartlett's X2)				0.341	0.364	0.587	1.00	0.855	.	.	0.127

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

University of Georgia

Weed Code	Harv10	Harv10	Harv10	Harv11	Harv11	Harv11	Harv11	Harv12			
Crop Code	squash	squash	squash	squash	squash	squash	squash	squash			
Rating Data Type	fruit	cull	cull wt	fruit	fruit	cull	cull wt	fruit			
Rating Unit	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot			
Rating Date	Sep-19-03	Sep-19-03	Sep-19-03	Sep-24-03	Sep-24-03	Sep-24-03	Sep-24-03	Sep-29-03			
Trt-Eval Interval	24 DA-A	24 DA-A	24 DA-A	29 DA-A	29 DA-A	29 DA-A	29 DA-A	34 DA-A			
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Unit	81	82	83	84	85	86	87	88
1	WeatherMax	1	oz/a	0.9	0.3	0.1	4.7	1.0	0.0	0.0	12.0
2	WeatherMax	4	oz/a	0.1	0.0	0.0	0.3	0.1	0.0	0.0	6.3
3	Non-treated			0.6	0.0	0.0	3.7	1.0	0.0	0.0	14.7
LSD (P=.05)				0.60	0.76	0.15	5.12	1.28	0.00	0.00	9.39
Standard Deviation				0.27	0.33	0.07	2.26	0.56	0.00	0.00	4.14
CV				52.17	300.0	300.0	78.26	79.27	0.0	0.0	37.67
Bartlett's X2				3.602	0.0	0.0	3.534	1.448	0.0	0.0	0.085
P(Bartlett's X2)				0.165	.	.	0.171	0.485	.	.	0.959

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

University of Georgia

Weed Code	Harv12	Harv12	Harv12	Harv13	Harv13	Harv13	Harv13	1st5harv			
Crop Code	squash	squash	squash	squash	squash	squash	squash	squash			
Rating Data Type	fruit	cull	cull wt	fruit	fruit	cull	cull wt	fruit			
Rating Unit	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot			
Rating Date	Sep-29-03	Sep-29-03	Sep-29-03	Sep-26-03	Sep-26-03	Sep-26-03	Sep-26-03	Jan-15-04			
Trt-Eval Interval	34 DA-A	34 DA-A	34 DA-A	31 DA-A	31 DA-A	31 DA-A	31 DA-A	142 DA-A			
ARM Action Codes								T6			
# Subsamples, Dec.								1			
Trt No.	Treatment Name	Rate	Unit	89	90	91	92	93	94	95	96
1	WeatherMax	1	oz/a	3.7	0.3	0.1	6.3	2.2	0.0	0.0	20.3
2	WeatherMax	4	oz/a	2.3	0.0	0.0	2.3	0.6	0.0	0.0	13.3
3	Non-treated			5.1	0.0	0.0	8.0	2.1	0.0	0.0	21.0
LSD (P=.05)				3.35	0.76	0.15	4.50	1.58	0.00	0.00	9.51
Standard Deviation				1.48	0.33	0.07	1.99	0.70	0.00	0.00	4.20
CV				39.94	300.0	300.0	35.75	42.91	0.0	0.0	23.03
Bartlett's X2				1.564	0.0	0.0	0.575	0.125	0.0	0.0	2.049
P(Bartlett's X2)				0.458	.	.	0.75	0.939	.	.	0.359

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

Column 96: T6 = [C44]+[C48]+[C52]+[C56]+[C60]

University of Georgia

Weed Code	1st5harv	1st5harv	1st5harv	Total	Total	Total	Total	tomato	
Crop Code	squash	squash	squash	squash	squash	squash	squash	jumbo	
Rating Data Type	fruit	cull	cull wt	fruit	fruit	cull	cull wt	#/plot	
Rating Unit	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot	
Rating Date	Jan-15-04	Jan-15-04	Jan-15-04	Jan-15-04	Jan-15-04	Jan-15-04	Jan-15-04	Nov-07-03	
Trt-Eval Interval	142 DA-A	142 DA-A	142 DA-A	142 DA-A	142 DA-A	142 DA-A	142 DA-A	73 DA-A	
ARM Action Codes	T7	T8	T9	T10	T11	T12	T13		
# Subsamples, Dec.	1	1	1	1	1	1	1		
Trt Treatment	Rate								
No. Name	Rate Unit	97	98	99	100	101	102	103	104
1 WeatherMax	1 oz/a	4.6	0.0	0.0	79.3	20.6	0.7	0.1	26.3
2 WeatherMax	4 oz/a	1.9	7.7	0.4	34.7	7.8	11.0	0.8	13.7
3 Non-treated		5.3	0.7	0.1	79.3	22.2	3.0	0.9	23.0
LSD (P=.05)		1.77	10.16	0.60	28.53	11.43	11.43	0.96	16.78
Standard Deviation		0.78	4.48	0.27	12.59	5.04	5.04	0.42	7.40
CV		19.93	161.44	150.0	19.53	29.9	103.18	67.76	35.26
Bartlett's X2		0.588	6.933	2.324	4.513	3.239	9.571	3.469	0.764
P(Bartlett's X2)		0.745	0.008*	0.127	0.105	0.198	0.008*	0.177	0.682

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

Column 97: T7 = [C45]+[C49]+[C53]+[C57]+[C61]

Column 98: T8 = [C46]+[C50]+[C54]+[C58]+[C62]

Column 99: T9 = [C47]+[C51]+[C55]+[C59]+[C63]

Column 100: T10 = [C44]+[C48]+[C52]+[C56]+[C60]+[C64]+[C68]+[C72]+[C76]+[C80]+[C84]+[C88]+[C92]

Column 101: T11 = [C45]+[C49]+[C53]+[C57]+[C61]+[C65]+[C69]+[C73]+[C77]+[C81]+[C85]+[C89]+[C93]

Column 102: T12 = [C46]+[C50]+[C54]+[C58]+[C62]+[C66]+[C70]+[C74]+[C78]+[C82]+[C86]+[C90]+[C94]

Column 103: T13 = [C47]+[C51]+[C55]+[C59]+[C63]+[C67]+[C71]+[C75]+[C79]+[C83]+[C87]+[C91]+[C95]

University of Georgia

Weed Code									
Crop Code	tomato	tomato	tomato	tomato	tomato	tomato	tomato	tomato	tomato
Rating Data Type	jumbo	large	large	medium	medium	small	small	ex small	
Rating Unit	wt/plot	#/plot	wt/plot	#/plot	wt/plot	#/plot	wt/plot	#/plot	
Rating Date	Nov-07-03	Nov-07-03	Nov-07-03	Nov-07-03	Nov-07-03	Nov-07-03	Nov-07-03	Nov-07-03	Nov-07-03
Trt-Eval Interval	73 DA-A	73 DA-A	73 DA-A	73 DA-A	73 DA-A	73 DA-A	73 DA-A	73 DA-A	73 DA-A
ARM Action Codes									
# Subsamples, Dec.									
Trt No.									
Treatment Name									
Rate									
Unit									
	105	106	107	108	109	110	111	112	
1 WeatherMax	17.3	18.7	7.3	30.3	8.1	9.7	2.1	38.7	
2 WeatherMax	7.6	13.7	5.0	11.7	3.4	5.3	1.3	42.0	
3 Non-treated	14.8	20.7	7.6	29.0	8.1	13.3	2.8	34.0	
LSD (P=.05)	8.40	11.99	3.85	11.37	2.88	6.39	1.38	23.78	
Standard Deviation	3.71	5.29	1.70	5.02	1.27	2.82	0.61	10.49	
CV	28.03	29.95	25.65	21.2	19.53	29.84	29.57	27.45	
Bartlett's X2	0.032	0.084	0.667	2.917	1.707	1.609	0.229	7.941	
P(Bartlett's X2)	0.984	0.959	0.716	0.233	0.426	0.447	0.892	0.019*	

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

University of Georgia

Weed Code				Total	Total
Crop Code	tomato	tomato	tomato	tomato	tomato
Rating Data Type	ex small	cull	cull	fruit	fruit
Rating Unit	wt/plot	#/plot	wt/plot	#/plot	lb/plot
Rating Date	Nov-07-03	Nov-07-03	Nov-07-03	Jan-15-04	Jan-15-04
Trt-Eval Interval	73 DA-A	73 DA-A	73 DA-A	142 DA-A	142 DA-A
ARM Action Codes				T14	T15
# Subsamples, Dec.					1
Trt Treatment	Rate				
No. Name	Rate Unit	113	114	115	116
1 WeatherMax	1 oz/a	3.9	11.3	4.5	123.7
2 WeatherMax	4 oz/a	4.5	10.3	2.9	86.3
3 Non-treated		3.7	14.0	4.7	120.0
LSD (P=.05)		3.59	7.89	4.00	17.36
Standard Deviation		1.58	3.48	1.76	7.66
CV		39.13	29.27	43.39	6.96
Bartlett's X2		9.899	1.717	1.401	2.674
P(Bartlett's X2)		0.007*	0.424	0.496	0.263

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

Column 116: T14 = [C104]+[C106]+[C108]+[C110]+[C112]

Column 117: T15 = [105]+[107]+[109]+[111]+[113]

Trial Comments

OBJECTIVE: Determine watermelon, tomato, and squash response to simulated drift glyphosate applications.

VISUAL INJURY:

1. Little injury was noted with 1 oz of WeatherMax but at the 4 oz/A rate, injury ranged from 20 to 27% across crops at 10 DAT.

HEIGHT MEASUREMENTS (10 plants tomato, 5 plants melons and squash)

1. No statistical differences were noted.

YIELD (Squash 13 harvest, tomato once over)

1. Compared to the non-treated, the number of total squash harvested was reduced by 56%, weight was reduced by 64% by 4 oz of WeatherMax. WeatherMax at 1 oz did not affect yield.
2. Compared to the non-treated, the number of total tomato harvested was reduced by 28%, weight was reduced by 41%. WeatherMax at 1 oz/A did not affect yield.

GENERAL COMMENTS:

1. Applied Telone C35 at 22 GPA on July 15.
2. Laid plastic on July 28.
3. Transplanted August 6.