

University of Georgia

Tomato and squash response to Aim applied over plastic prior to planting.

Trial ID: Veg38-03
Location: Ponder farm

Study Dir.: Stanley Culpepper
Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

Study Director: Stanley 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:** excellent
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 AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	.		

Crop 1: LYPES TOMATO **Variety:** Amelia
Planting Date: Aug-06-03 **Planting Method:** transplant
Rate: 1 18" **Depth:** 1.5 in
Row Spacing: 6 foot **Spacing Within Row:** 18 inch **Seed Bed:** plastic
Soil Temperature: 92 F **Soil Moisture:** drip

Crop 2: CUUPE SQUASH, SUMMER **Variety:** Enterprise
Planting Date: Aug-06-03 **Planting Method:** transplant
Rate: 1 12inch **Depth:** 1.5 in
Row Spacing: 6 feet **Spacing Within Row:** 12 inch **Seed Bed:** plastic
Soil Temperature: 92 F **Soil Moisture:** drip

SITE AND DESIGN

Plot Width, Unit: 6 FT **Plot Length, Unit:** 20 FT **Reps:** 4
Site Type: Research Station
Tillage Type: plasticulture **Study Design:** SPLIT-PLOT

SOIL DESCRIPTION

% Sand: 94 **% OM:** 1.3 **Texture:** sand
% Silt: 2 **pH:** 5.9 **Soil Name:** Tifton sandy loam
% Clay: 4

Overall Moisture Conditions: wet

APPLICATION DESCRIPTION

	A	B
Application Date:	Aug-04-03	Aug-06-03
Time of Day:	3:00pm	8:00am
Application Method:	broadcast	broadcast
Application Timing:	wash off	nowashoff
Applic. Placement:	overplast	overplast
Air Temp., Unit:	85 F	82 F
% Relative Humidity:	69	79
Wind Velocity, Unit:	2 mph	1 mph
Dew Presence (Y/N):	Y	Y
Soil Temp., Unit:	94 F	94 F
Soil Moisture:	wet	wet
% Cloud Cover:	100	100

University of Georgia

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	LYPES prior	LYPES prior
Stage Scale:	to transp	to transp
Height, Unit:	0. .	0. .
Crop 2 Code, Stage:	CUUPE prior to	CUUPE
Stage Scale:	prior to	

WEED STAGE AT EACH APPLICATION

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

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	backpack	backpack
Operating Pressure:	22	22
Nozzle Type:	flat fan	flat fan
Nozzle Size:	11002	11002
Nozzle Spacing, Unit:	18 inch	18 inch
Nozzles/Row:	4	4
Boom Length, Unit:	4.5 feet	4.5 feet
Boom Height, Unit:	15 inch	15 inch
Ground Speed, Unit:	3 mph	3 mph
Carrier:	water	water
Spray Volume, Unit:	14.8 GPA	14.8 GPA
Propellant:	CO2	CO2
Tank Mix (Y/N):	Y	Y

University of Georgia

Tomato and squash response to Aim applied over plastic prior to planting.

Trial ID: Veg38-03

Study Dir.: Stanley Culpepper

Location: Ponder farm

Investigator: Stanley Culpepper

Weed Code	Crop Code	tomato injury percent	tomato injury percent	tomato injury percent	squash injury percent	squash injury percent	squash injury percent	tomato ht cm		
Rating Data Type	Rating Unit	Aug-08-03	Aug-25-03	Sep-05-03	Aug-08-03	Aug-25-03	Sep-05-03	Aug-20-03		
Rating Date	Trt-Eval Interval	4 DA-A	21 DA-A	32 DA-A	4 DA-A	21 DA-A	32 DA-A	16 DA-A		
ARM Action Codes	# Subsamples, Dec.									
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7
1	Washed off 0.75"irrigatio WeatherMax	21	oz/a	0.0	1.3	1.3	0.0	0.0	0.0	19.8
2	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	0.0	1.3	1.3	0.0	0.0	0.0	21.0
3	Washed off 0.75"irrigatio Aim coc	0.032	lb ai/a 1 % v/v	0.0	0.0	0.0	0.0	0.0	0.0	18.5
4	Washed off 0.75"irrigatio Aim coc	0.048	lb ai/a 1 % v/v	0.0	1.3	0.0	0.0	5.0	2.5	16.8
5	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	0.0	0.0	0.0	0.0	7.5	0.0	21.8
6	Not washed off WeatherMax	21	oz/a	1.3	46.3	60.0	1.3	32.5	18.8	8.8
7	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	2.8	0.0	0.0	1.5	0.0	0.0	21.3
8	Not washed off Aim coc	0.032	lb ai/a 1 % v/v	0.0	2.5	0.0	2.5	7.5	3.8	20.5
9	Not washed off Aim coc	0.048	lb ai/a 1 % v/v	0.0	7.0	3.0	5.0	8.8	3.0	16.5
10	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	4.5	5.0	1.3	5.0	11.3	5.5	18.5
11	No herbicide			0.0	0.0	0.0	0.0	0.0	0.0	21.3
LSD (P=.05)				3.44	8.49	4.50	4.22	15.48	7.25	8.88
Standard Deviation				2.38	5.88	3.11	2.92	10.72	5.02	6.15
CV				308.6	100.26	51.32	210.62	162.63	164.79	33.07
Bartlett's X2				1.83	16.428	6.345	3.14	5.89	2.721	34.735
P(Bartlett's X2)				0.401	0.012*	0.175	0.535	0.317	0.606	0.001*

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

University of Georgia

Weed Code		tomato	tomato	tomato	tomato	tomato	tomato	tomato		
Crop Code		tomato	tomato	tomato	tomato	tomato	tomato	tomato		
Rating Data Type		ht	ht	ht	ht	ht	ht	ht		
Rating Unit		cm	cm	cm	cm	cm	cm	cm		
Rating Date		Aug-20-03	Aug-20-03	Aug-20-03	Aug-20-03	Aug-20-03	Aug-20-03	Aug-20-03		
Trt-Eval Interval		16 DA-A	16 DA-A	16 DA-A	16 DA-A	16 DA-A	16 DA-A	16 DA-A		
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	8	9	10	11	12	13	14
1	Washed off 0.75"irrigatio WeatherMax	21	oz/a	20.5	20.3	19.5	22.3	16.5	21.0	15.8
2	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	22.3	19.5	16.0	20.5	19.8	22.0	22.8
3	Washed off 0.75"irrigatio Aim coc	0.032	lb ai/a 1 % v/v	21.5	20.0	20.5	21.5	20.8	20.8	20.5
4	Washed off 0.75"irrigatio Aim coc	0.048	lb ai/a 1 % v/v	21.3	22.5	20.3	21.5	21.5	21.5	20.3
5	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	21.5	21.8	20.0	22.5	21.5	24.0	20.8
6	Not washed off WeatherMax	21	oz/a	14.3	9.0	9.5	6.8	8.3	7.8	9.0
7	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	16.3	20.5	20.5	21.3	20.5	21.3	20.5
8	Not washed off Aim coc	0.032	lb ai/a 1 % v/v	22.8	20.3	21.3	18.3	21.0	19.8	18.8
9	Not washed off Aim coc	0.048	lb ai/a 1 % v/v	19.8	17.3	20.3	14.5	20.0	19.8	20.3
10	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	13.0	16.3	15.3	21.8	22.0	21.8	20.8
11	No herbicide			18.8	22.3	19.3	20.8	21.0	21.0	20.5
LSD (P=.05)				8.15	7.41	8.28	6.76	6.88	5.77	7.59
Standard Deviation				5.65	5.13	5.74	4.68	4.76	4.00	5.26
CV				29.33	26.95	31.2	24.35	24.64	19.93	27.56
Bartlett's X2				33.489	34.698	49.201	29.586	45.519	25.1	33.735
P(Bartlett's X2)				0.001*	0.001*	0.001*	0.001*	0.001*	0.005*	0.001*

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

University of Georgia

Weed Code		tomato	tomato	Avg10pla tomato	squash	squash	squash	squash		
Crop Code		tomato	tomato	tomato	squash	squash	squash	squash		
Rating Data Type		ht	ht	ht	ht	ht	ht	ht		
Rating Unit		cm	cm	cm	cm	cm	cm	cm		
Rating Date		Aug-20-03	Aug-20-03	Aug-20-03	Sep-04-03	Sep-04-03	Sep-04-03	Sep-04-03		
Trt-Eval Interval		16 DA-A	16 DA-A		31 DA-A	31 DA-A	31 DA-A	31 DA-A		
ARM Action Codes				T1						
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	15	16	17	18	19	20	21
1	Washed off 0.75"irrigatio WeatherMax	21	oz/a	17.0	23.5	19.6	35.0	36.8	39.3	38.5
2	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	21.5	21.8	20.7	32.0	36.0	39.8	40.3
3	Washed off 0.75"irrigatio Aim coc	0.032	lb ai/a 1 % v/v	22.8	23.3	21.0	34.5	34.8	36.3	33.5
4	Washed off 0.75"irrigatio Aim coc	0.048	lb ai/a 1 % v/v	19.0	19.8	20.4	35.8	34.0	37.8	39.8
5	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	20.5	21.8	21.6	29.3	36.3	40.8	37.8
6	Not washed off WeatherMax	21	oz/a	9.5	14.0	9.7	31.5	32.5	32.8	28.3
7	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	23.3	20.0	20.5	32.8	33.0	37.0	37.8
8	Not washed off Aim coc	0.032	lb ai/a 1 % v/v	14.8	19.8	19.7	36.3	31.0	34.8	34.0
9	Not washed off Aim coc	0.048	lb ai/a 1 % v/v	15.3	14.5	17.8	36.3	38.3	40.3	36.3
10	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	15.5	22.5	18.7	33.8	37.5	35.5	36.3
11	No herbicide			19.0	22.3	20.6	27.5	28.5	30.8	34.3
LSD (P=.05)				11.11	6.27	4.41	8.10	5.62	5.43	6.27
Standard Deviation				7.69	4.35	3.05	5.61	3.89	3.76	4.34
CV				42.75	21.43	15.96	16.93	11.31	10.22	12.04
Bartlett's X2				30.367	43.424	37.634	9.407	5.078	12.167	10.5
P(Bartlett's X2)				0.001*	0.001*	0.001*	0.494	0.886	0.274	0.398

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

Column 17: T1 = @AVG([C7].[C16])

University of Georgia

Weed Code			squash	squash	squash	squash	squash	squash	Avg10pla	
Crop Code			ht	ht	ht	ht	ht	ht	squash	
Rating Data Type			cm	cm	cm	cm	cm	cm	ht	
Rating Unit			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	
Trt-Eval Interval			31 DA-A	31 DA-A	31 DA-A	31 DA-A	31 DA-A	31 DA-A		
ARM Action Codes									T4	
# Subsamples, Dec.									1	
Trt No.	Treatment Name	Rate	Unit							
1	Washed off 0.75"irrigatio WeatherMax	21	oz/a	34.3	35.0	35.8	32.8	37.5	35.3	36.0
2	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	41.0	38.5	37.8	41.3	42.0	33.0	38.2
3	Washed off 0.75"irrigatio Aim coc	0.032	lb ai/a 1 % v/v	37.0	39.0	38.8	36.3	36.5	28.3	35.5
4	Washed off 0.75"irrigatio Aim coc	0.048	lb ai/a 1 % v/v	40.8	30.8	36.0	38.3	34.3	37.5	36.5
5	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	35.8	39.8	41.3	41.3	40.5	43.3	38.6
6	Not washed off WeatherMax	21	oz/a	28.0	30.8	32.8	31.8	32.8	31.3	31.2
7	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	39.8	36.8	35.8	35.3	37.8	34.5	36.0
8	Not washed off Aim coc	0.032	lb ai/a 1 % v/v	35.3	36.8	31.0	38.5	32.0	33.5	34.3
9	Not washed off Aim coc	0.048	lb ai/a 1 % v/v	32.0	35.8	31.8	33.5	33.8	34.5	35.2
10	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	33.0	36.5	36.0	36.0	33.5	31.3	34.9
11	No herbicide			35.5	35.0	36.3	36.8	33.5	34.8	33.3
LSD (P=.05)				9.38	7.49	7.36	6.49	6.91	10.30	3.98
Standard Deviation				6.49	5.19	5.10	4.50	4.79	7.13	2.76
CV				18.21	14.47	14.27	12.32	13.37	20.81	7.78
Bartlett's X2				6.109	21.892	17.445	4.629	12.834	19.623	8.062
P(Bartlett's X2)				0.806	0.016*	0.065	0.915	0.233	0.033*	0.623

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

Column 28: T4 = @AVG([C18].[C27])

University of Georgia

Weed Code			tomato	tomato	tomato	tomato	tomato	tomato	tomato	
Crop Code			ht	ht	ht	ht	ht	ht	ht	
Rating Data Type			cm	cm	cm	cm	cm	cm	cm	
Rating Unit			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	
Trt-Eval Interval			31 DA-A	31 DA-A	31 DA-A	31 DA-A	31 DA-A	31 DA-A	31 DA-A	
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit							
1	Washed off 0.75"irrigatio WeatherMax	21	oz/a	36.8	35.3	35.8	36.8	39.5	28.5	35.3
2	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	38.8	34.0	31.3	28.8	37.8	32.3	35.8
3	Washed off 0.75"irrigatio Aim coc	0.032	lb ai/a 1 % v/v	33.8	36.8	37.8	36.5	41.8	39.3	33.5
4	Washed off 0.75"irrigatio Aim coc	0.048	lb ai/a 1 % v/v	35.8	37.5	40.0	35.5	38.5	40.8	38.0
5	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	40.3	35.3	37.5	31.0	32.8	37.0	38.5
6	Not washed off WeatherMax	21	oz/a	29.0	33.3	31.3	30.5	31.8	28.0	26.8
7	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	32.5	36.8	41.8	38.5	36.3	38.8	42.0
8	Not washed off Aim coc	0.032	lb ai/a 1 % v/v	31.3	38.8	39.3	37.3	34.3	36.5	34.3
9	Not washed off Aim coc	0.048	lb ai/a 1 % v/v	31.3	29.3	33.0	29.3	25.0	35.3	35.5
10	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	33.8	35.5	38.3	36.5	33.0	31.0	37.0
11	No herbicide			32.0	35.3	31.8	33.8	35.8	36.3	35.5
LSD (P=.05)				9.37	8.31	9.35	8.38	11.06	9.40	7.27
Standard Deviation				6.49	5.76	6.48	5.80	7.66	6.51	5.03
CV				19.04	16.34	17.93	17.06	21.81	18.68	14.13
Bartlett's X2				11.3	10.486	9.295	9.728	17.526	30.114	8.151
P(Bartlett's X2)				0.335	0.399	0.504	0.465	0.064	0.001*	0.614

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	squash	squash	squash		
Rating Data Type		ht	ht	ht	ht	ht	ht	ht		
Rating Unit		cm	cm	cm	cm	cm	cm	cm		
Rating Date		Sep-04-03	Sep-04-03	Sep-04-03	Sep-04-03	Sep-25-03	Sep-25-03	Sep-25-03		
Trt-Eval Interval		31 DA-A	31 DA-A	31 DA-A		52 DA-A	52 DA-A	52 DA-A		
ARM Action Codes					T20					
# Subsamples, Dec.					1					
Trt No.	Treatment Name	Rate	Unit							
1	Washed off 0.75"irrigatio WeatherMax	21	oz/a	28.8	40.3	38.0	35.5	37.8	42.0	50.8
2	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	36.0	37.0	24.0	33.6	40.0	45.8	50.0
3	Washed off 0.75"irrigatio Aim coc	0.032	lb ai/a 1 % v/v	33.3	33.5	36.3	36.2	45.8	47.3	48.5
4	Washed off 0.75"irrigatio Aim coc	0.048	lb ai/a 1 % v/v	35.8	30.5	34.5	36.7	44.5	45.0	48.0
5	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	34.5	34.3	36.3	35.7	43.8	50.5	50.8
6	Not washed off WeatherMax	21	oz/a	22.8	28.3	27.8	28.9	44.5	51.5	52.0
7	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	35.8	33.5	31.8	36.8	41.3	49.5	52.0
8	Not washed off Aim coc	0.032	lb ai/a 1 % v/v	34.8	37.5	34.8	35.9	52.0	46.3	50.5
9	Not washed off Aim coc	0.048	lb ai/a 1 % v/v	36.0	34.3	28.8	31.8	42.0	49.8	44.0
10	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	25.8	24.5	24.0	31.9	44.5	52.8	50.3
11	No herbicide			37.3	37.3	34.5	34.9	42.5	51.3	51.5
LSD (P=.05)				16.01	12.39	13.97	4.32	7.94	7.96	8.39
Standard Deviation				11.09	8.58	9.67	2.99	5.50	5.51	5.81
CV				33.84	25.45	30.36	8.72	12.64	11.41	11.66
Bartlett's X2				24.444	19.357	23.96	11.852	10.927	16.404	7.309
P(Bartlett's X2)				0.007*	0.036*	0.008*	0.295	0.363	0.089	0.696

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

Column 39: T20 = @AVG([29].[38])

University of Georgia

Weed Code			squash	squash	squash	squash	squash	squash	squash	
Crop Code			ht	ht	ht	ht	ht	ht	ht	
Rating Data Type			cm	cm	cm	cm	cm	cm	cm	
Rating Unit			cm	cm	cm	cm	cm	cm	cm	
Rating Date			Sep-25-03	Sep-25-03	Sep-25-03	Sep-25-03	Sep-25-03	Sep-25-03	Sep-25-03	
Trt-Eval Interval			52 DA-A	52 DA-A	52 DA-A	52 DA-A	52 DA-A	52 DA-A	52 DA-A	
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit							
1	Washed off 0.75"irrigatio WeatherMax	21	oz/a	49.0	48.0	46.8	49.8	48.5	45.0	44.0
2	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	49.3	50.5	47.0	48.3	47.5	52.3	49.3
3	Washed off 0.75"irrigatio Aim coc	0.032	lb ai/a 1 % v/v	47.0	47.5	47.8	48.0	48.8	49.5	49.3
4	Washed off 0.75"irrigatio Aim coc	0.048	lb ai/a 1 % v/v	46.8	47.3	44.8	46.8	44.8	48.0	49.3
5	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	51.5	50.5	46.0	51.5	47.0	47.0	46.0
6	Not washed off WeatherMax	21	oz/a	48.3	45.0	46.3	48.8	50.8	40.3	37.3
7	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	50.0	47.5	47.8	51.5	51.8	49.3	43.5
8	Not washed off Aim coc	0.032	lb ai/a 1 % v/v	51.5	46.5	48.8	50.5	51.5	36.5	31.8
9	Not washed off Aim coc	0.048	lb ai/a 1 % v/v	44.0	50.8	47.0	50.0	53.3	49.8	47.8
10	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	51.3	50.0	47.3	47.3	46.8	49.0	48.3
11	No herbicide			52.5	49.3	48.3	48.8	50.0	47.3	45.8
LSD (P=.05)				8.30	6.98	7.39	6.22	7.00	16.80	16.55
Standard Deviation				5.75	4.83	5.11	4.30	4.85	11.63	11.46
CV				11.69	9.98	10.87	8.75	9.87	24.91	25.63
Bartlett's X2				18.434	12.596	12.204	5.028	17.911	39.66	32.7
P(Bartlett's X2)				0.048*	0.247	0.272	0.889	0.056	0.001*	0.001*

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

University of Georgia

Weed Code		Avg10pla	tomato	tomato	tomato	tomato	tomato	tomato
Crop Code		squash	tomato	tomato	tomato	tomato	tomato	tomato
Rating Data Type		ht	ht	ht	ht	ht	ht	ht
Rating Unit		cm	cm	cm	cm	cm	cm	cm
Rating Date		Sep-25-03	Sep-25-03	Sep-25-03	Sep-25-03	Sep-25-03	Sep-25-03	Sep-25-03
Trt-Eval Interval			52 DA-A	52 DA-A	52 DA-A	52 DA-A	52 DA-A	52 DA-A
ARM Action Codes		T7						
# Subsamples, Dec.		1						
Trt Treatment	Rate							
No. Name	Unit	50	51	52	53	54	55	56
1 Washed off 0.75"irrigatio WeatherMax	21 oz/a	46.2	81.3	77.3	77.5	81.5	81.5	81.3
2 Washed off 0.75"irrigatio Aim coc	0.016 lb ai/a 1 % v/v	48.0	82.8	78.5	81.8	83.5	76.3	79.3
3 Washed off 0.75"irrigatio Aim coc	0.032 lb ai/a 1 % v/v	47.9	75.5	84.0	85.3	82.3	84.3	85.0
4 Washed off 0.75"irrigatio Aim coc	0.048 lb ai/a 1 % v/v	46.5	83.0	84.5	82.0	86.3	82.5	81.0
5 Washed off 0.75"irrigatio Aim coc	0.016 lb ai/a 1 % v/v	48.5	85.8	83.0	82.3	78.0	78.0	82.5
6 Not washed off WeatherMax	21 oz/a	46.5	70.5	79.0	76.3	73.5	67.3	72.5
7 Not washed off Aim coc	0.016 lb ai/a 1 % v/v	48.4	72.3	64.5	84.3	82.5	81.8	81.3
8 Not washed off Aim coc	0.032 lb ai/a 1 % v/v	46.6	85.0	86.8	82.8	82.3	80.3	86.3
9 Not washed off Aim coc	0.048 lb ai/a 1 % v/v	47.8	79.3	81.5	83.0	81.5	86.3	77.0
10 Not washed off Aim coc	0.016 lb ai/a 1 % v/v	48.7	72.3	81.5	83.5	84.8	81.5	79.0
11 No herbicide		48.7	79.8	84.0	80.8	79.8	87.5	76.3
LSD (P=.05)		4.37	14.36	22.16	7.25	10.72	8.68	10.38
Standard Deviation		3.03	9.94	15.35	5.02	7.42	6.01	7.19
CV		6.36	12.61	19.09	6.15	9.11	7.45	8.97
Bartlett's X2		11.126	35.538	41.811	11.844	22.427	18.757	15.746
P(Bartlett's X2)		0.348	0.001*	0.001*	0.296	0.013*	0.043*	0.107

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

Column 50: T7 = @AVG([C40].[C49])

University of Georgia

Weed Code					Avg10pla	Harv1	Harv1			
Crop Code		tomato	tomato	tomato	tomato	squash	squash			
Rating Data Type		ht	ht	ht	ht	fruit	fruit			
Rating Unit		cm	cm	cm	cm	#	wt			
Rating Date		Sep-26-03	Sep-25-03	Sep-25-03	Sep-25-03	Aug-29-03	Aug-29-03			
Trt-Eval Interval		53 DA-A	52 DA-A	52 DA-A	52 DA-A	25 DA-A	25 DA-A			
ARM Action Codes					T8					
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	57	58	59	60	61	62	63
1	Washed off 0.75"irrigatio WeatherMax	21	oz/a	78.8	80.5	64.0	62.3	76.6	3.5	0.6
2	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	84.5	77.0	82.0	77.8	80.3	3.0	0.6
3	Washed off 0.75"irrigatio Aim coc	0.032	lb ai/a 1 % v/v	84.3	81.3	82.5	79.0	82.3	4.0	0.7
4	Washed off 0.75"irrigatio Aim coc	0.048	lb ai/a 1 % v/v	80.3	80.0	85.0	81.5	82.6	2.0	0.3
5	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	83.5	87.3	85.5	82.8	82.9	3.3	0.7
6	Not washed off WeatherMax	21	oz/a	76.0	74.0	48.5	56.3	69.4	0.3	0.1
7	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	82.0	87.0	78.8	78.3	79.3	4.8	0.9
8	Not washed off Aim coc	0.032	lb ai/a 1 % v/v	87.3	80.3	81.3	86.0	83.8	1.8	0.3
9	Not washed off Aim coc	0.048	lb ai/a 1 % v/v	79.5	81.8	78.8	52.5	78.1	2.0	0.3
10	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	85.5	83.0	82.8	76.3	81.0	2.0	0.3
11	No herbicide			80.8	85.3	82.3	83.8	82.0	1.8	0.3
LSD (P=.05)				8.15	9.19	24.94	29.91	8.46	2.77	0.43
Standard Deviation				5.64	6.36	17.27	20.71	5.86	1.92	0.30
CV				6.88	7.8	22.32	27.91	7.34	74.61	69.22
Bartlett's X2				12.264	17.234	37.684	52.43	27.499	12.857	14.214
P(Bartlett's X2)				0.268	0.069	0.001*	0.001*	0.002*	0.232	0.163

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

Column 61: T8 = @AVG([C51].[C60])

University of Georgia

Weed Code		Harv1	Harv1	Harv2	Harv2	Harv2	Harv2	Harv3		
Crop Code		squash	squash	squash	squash	squash	squash	squash		
Rating Data Type		cull	cull wt	fruit	fruit	cull	cull wt	fruit		
Rating Unit		#	lb	#	wt	#	lb	#		
Rating Date		Aug-29-03	Aug-29-03	Sep-01-03	Sep-01-03	Sep-01-03	Sep-01-03	Sep-03-03		
Trt-Eval Interval		25 DA-A	25 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	30 DA-A		
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	64	65	66	67	68	69	70
1	Washed off 0.75"irrigatio WeatherMax	21	oz/a	0.0	0.0	5.8	1.3	0.0	0.0	2.8
2	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	0.3	0.1	7.0	1.5	0.0	0.0	5.5
3	Washed off 0.75"irrigatio Aim coc	0.032	lb ai/a 1 % v/v	0.0	0.0	5.0	1.2	0.0	0.0	5.0
4	Washed off 0.75"irrigatio Aim coc	0.048	lb ai/a 1 % v/v	0.0	0.0	6.8	1.4	0.0	0.0	3.5
5	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	0.0	0.0	7.0	1.7	0.3	0.0	3.5
6	Not washed off WeatherMax	21	oz/a	0.0	0.0	3.8	0.8	0.0	0.0	3.8
7	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	0.0	0.0	7.5	1.4	0.0	0.0	5.8
8	Not washed off Aim coc	0.032	lb ai/a 1 % v/v	0.0	0.0	7.5	1.5	0.0	0.0	4.3
9	Not washed off Aim coc	0.048	lb ai/a 1 % v/v	0.0	0.0	5.5	1.2	0.0	0.0	2.8
10	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	0.0	0.0	6.8	1.6	0.0	0.0	3.0
11	No herbicide			0.0	0.0	5.0	0.9	0.0	0.0	4.5
LSD (P=.05)				0.22	0.04	3.93	1.02	0.22	0.00	2.77
Standard Deviation				0.15	0.03	2.72	0.71	0.15	0.00	1.92
CV				663.33	610.26	44.38	54.82	663.33	0.0	47.65
Bartlett's X2				0.0	0.0	2.884	3.899	0.0	0.0	11.053
P(Bartlett's X2)				.	.	0.984	0.952	.	.	0.353

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

University of Georgia

Weed Code		Harv3	Harv3	Harv3	Harv4	Harv4	Harv4	Harv4		
Crop Code		squash	squash	squash	squash	squash	squash	squash		
Rating Data Type		fruit	cull	cull wt	fruit	fruit wt	cull	cull		
Rating Unit		wt	#	lb	#/plot	lb/plot	#/plot	lb/plot		
Rating Date		Sep-03-03	Sep-03-03	Sep-03-03	Sep-05-03	Sep-05-03	Sep-05-03	Sep-05-03		
Trt-Eval Interval		30 DA-A	30 DA-A	30 DA-A	32 DA-A	32 DA-A	32 DA-A	32 DA-A		
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	71	72	73	74	75	76	77
1	Washed off 0.75"irrigatio WeatherMax	21	oz/a	0.6	0.0	0.0	8.3	1.7	0.0	0.0
2	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	1.2	0.0	0.0	5.5	1.2	0.0	0.0
3	Washed off 0.75"irrigatio Aim coc	0.032	lb ai/a 1 % v/v	1.0	0.0	0.0	4.8	1.1	0.0	0.0
4	Washed off 0.75"irrigatio Aim coc	0.048	lb ai/a 1 % v/v	0.7	0.0	0.0	3.8	1.0	0.0	0.0
5	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	0.6	0.0	0.0	7.8	1.8	0.5	0.1
6	Not washed off WeatherMax	21	oz/a	0.6	0.0	0.0	3.5	0.5	0.0	0.0
7	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	0.8	0.0	0.0	7.8	1.5	0.0	0.0
8	Not washed off Aim coc	0.032	lb ai/a 1 % v/v	0.8	0.0	0.0	4.5	0.9	0.0	0.0
9	Not washed off Aim coc	0.048	lb ai/a 1 % v/v	0.4	0.0	0.0	6.5	1.2	0.3	0.1
10	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	0.6	0.0	0.0	6.5	1.4	0.0	0.0
11	No herbicide			0.6	0.0	0.0	6.0	1.2	0.5	0.1
LSD (P=.05)				0.60	0.00	0.00	3.98	0.89	0.63	0.10
Standard Deviation				0.41	0.00	0.00	2.76	0.62	0.44	0.07
CV				59.48	0.0	0.0	46.85	51.4	386.02	399.37
Bartlett's X2				13.96	0.0	0.0	12.845	9.488	1.529	2.025
P(Bartlett's X2)				0.175	.	.	0.232	0.486	0.466	0.363

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

University of Georgia

Weed Code		Harv5	Harv5	Harv5	Harv5	Harv6	Harv6	Harv6		
Crop Code		squash	squash	squash	squash	squash	squash	squash		
Rating Data Type		fruit	fruit	cull	cull wt	fruit	fruit	cull		
Rating Unit		#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot		
Rating Date		Sep-08-03	Sep-08-03	Sep-08-03	Sep-08-03	Sep-10-03	Sep-10-03	Sep-10-03		
Trt-Eval Interval		35 DA-A	35 DA-A	35 DA-A	35 DA-A	37 DA-A	37 DA-A	37 DA-A		
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	78	79	80	81	82	83	84
1	Washed off 0.75"irrigatio WeatherMax	21	oz/a	4.3	1.2	0.3	0.1	5.0	1.1	0.5
2	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	2.5	0.8	0.0	0.0	5.3	1.3	0.0
3	Washed off 0.75"irrigatio Aim coc	0.032	lb ai/a 1 % v/v	5.3	1.6	0.0	0.0	7.3	1.2	0.0
4	Washed off 0.75"irrigatio Aim coc	0.048	lb ai/a 1 % v/v	4.5	1.1	0.0	0.0	5.0	1.1	0.0
5	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	4.0	1.1	0.3	0.1	4.3	1.0	0.8
6	Not washed off WeatherMax	21	oz/a	2.3	0.6	0.5	0.3	4.5	1.3	0.0
7	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	2.3	0.6	0.0	0.0	9.0	1.8	0.3
8	Not washed off Aim coc	0.032	lb ai/a 1 % v/v	1.5	0.5	0.0	0.0	5.8	1.3	0.0
9	Not washed off Aim coc	0.048	lb ai/a 1 % v/v	4.0	1.1	0.3	0.1	10.0	1.5	0.5
10	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	3.5	1.1	0.0	0.0	5.8	1.4	0.0
11	No herbicide			2.3	0.7	0.3	0.1	4.3	0.9	0.0
LSD (P=.05)				2.07	0.62	0.50	0.21	5.81	0.94	0.61
Standard Deviation				1.44	0.43	0.34	0.15	4.02	0.65	0.42
CV				43.58	46.98	252.1	249.62	67.07	52.44	231.57
Bartlett's X2				12.935	10.039	0.1	0.872	15.738	10.139	1.589
P(Bartlett's X2)				0.227	0.437	0.999	0.929	0.107	0.428	0.662

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

University of Georgia

Weed Code		Harv6	Harv7	Harv7	Harv7	Harv7	Harv8	Harv8		
Crop Code		squash	squash	squash	squash	squash	squash	squash		
Rating Data Type		cull wt	fruit	fruit	cull	cull wt	fruit	fruit		
Rating Unit		lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot		
Rating Date		Sep-10-03	Sep-12-03	Sep-12-03	Sep-12-03	Sep-12-03	Sep-16-03	Sep-16-03		
Trt-Eval Interval		37 DA-A	39 DA-A	39 DA-A	39 DA-A	39 DA-A	43 DA-A	43 DA-A		
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	85	86	87	88	89	90	91
1	Washed off 0.75"irrigatio WeatherMax	21	oz/a	0.2	5.8	1.6	0.5	0.3	18.8	7.3
2	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	0.0	10.5	3.1	0.8	0.4	12.0	6.2
3	Washed off 0.75"irrigatio Aim coc	0.032	lb ai/a 1 % v/v	0.0	10.5	3.1	0.0	0.0	18.8	7.8
4	Washed off 0.75"irrigatio Aim coc	0.048	lb ai/a 1 % v/v	0.0	9.0	2.4	1.3	0.4	17.8	7.2
5	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	0.3	8.5	2.6	0.0	0.0	14.5	7.5
6	Not washed off WeatherMax	21	oz/a	0.0	10.3	2.8	0.8	0.2	17.0	6.5
7	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	0.1	7.5	2.1	0.3	0.1	15.0	5.9
8	Not washed off Aim coc	0.032	lb ai/a 1 % v/v	0.0	8.5	2.1	0.3	0.2	16.0	6.7
9	Not washed off Aim coc	0.048	lb ai/a 1 % v/v	0.1	7.3	1.8	0.0	0.0	16.5	6.8
10	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	0.0	7.5	2.2	0.0	0.0	19.3	7.6
11	No herbicide			0.0	7.5	2.0	0.0	0.0	14.5	5.2
LSD (P=.05)				0.17	4.93	1.31	1.03	0.45	5.59	2.64
Standard Deviation				0.12	3.42	0.90	0.72	0.31	3.87	1.83
CV				242.21	40.51	39.0	210.23	246.35	23.68	27.03
Bartlett's X2				4.344	11.545	11.071	7.313	9.981	1.449	5.557
P(Bartlett's X2)				0.227	0.317	0.352	0.198	0.076	0.999	0.851

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

University of Georgia

Weed Code		Harv8	Harv8	Harv9	Harv9	Harv9	Harv9	Harv10		
Crop Code		squash	squash	squash	squash	squash	squash	squash		
Rating Data Type		cull	cull wt	fruit	fruit	cull	cull wt	fruit		
Rating Unit		#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot		
Rating Date		Sep-16-03	Sep-16-03	Sep-17-03	Sep-17-03	Sep-17-03	Sep-17-03	Sep-19-03		
Trt-Eval Interval		43 DA-A	43 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A	46 DA-A		
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	92	93	94	95	96	97	98
1	Washed off 0.75"irrigatio WeatherMax	21	oz/a	0.0	0.0	6.8	2.0	0.5	0.1	3.8
2	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	0.3	0.1	11.0	3.6	0.0	0.0	3.8
3	Washed off 0.75"irrigatio Aim coc	0.032	lb ai/a 1 % v/v	0.0	0.0	9.3	2.4	0.5	0.1	1.5
4	Washed off 0.75"irrigatio Aim coc	0.048	lb ai/a 1 % v/v	0.5	0.2	10.3	2.3	0.5	0.3	2.0
5	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	0.0	0.0	6.8	1.9	0.0	0.0	2.3
6	Not washed off WeatherMax	21	oz/a	0.3	0.4	4.8	1.2	0.0	0.0	3.8
7	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	0.3	0.1	6.8	2.0	0.0	0.0	5.0
8	Not washed off Aim coc	0.032	lb ai/a 1 % v/v	0.0	0.0	5.8	1.8	0.0	0.0	2.8
9	Not washed off Aim coc	0.048	lb ai/a 1 % v/v	0.0	0.0	6.8	2.3	0.0	0.0	5.8
10	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	0.3	0.1	7.8	2.3	0.0	0.0	4.0
11	No herbicide			0.3	0.1	7.0	1.9	0.0	0.0	3.5
LSD (P=.05)				0.54	0.35	5.58	2.20	0.75	0.29	2.74
Standard Deviation				0.37	0.25	3.87	1.52	0.52	0.20	1.90
CV				233.4	299.84	51.39	71.64	378.69	443.98	55.0
Bartlett's X2				0.104	13.55	14.822	10.544	0.0	4.968	8.077
P(Bartlett's X2)				1.00	0.019*	0.139	0.394	1.00	0.083	0.621

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			
Crop Code	squash	squash	squash	squash	squash	squash	squash			
Rating Data Type	fruit	cull	cull wt	fruit	fruit	cull	cull wt			
Rating Unit	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot			
Rating Date	Sep-19-03	Sep-19-03	Sep-19-03	Sep-22-03	Sep-22-03	Sep-22-03	Sep-22-03			
Trt-Eval Interval	46 DA-A	46 DA-A	46 DA-A	49 DA-A	49 DA-A	49 DA-A	49 DA-A			
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	99	100	101	102	103	104	105
1	Washed off 0.75"irrigatio WeatherMax	21	oz/a	0.7	0.0	0.0	6.3	2.1	0.0	0.0
2	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	1.1	0.0	0.0	6.0	2.8	0.0	0.0
3	Washed off 0.75"irrigatio Aim coc	0.032	lb ai/a 1 % v/v	0.4	0.0	0.0	8.3	1.8	0.0	0.0
4	Washed off 0.75"irrigatio Aim coc	0.048	lb ai/a 1 % v/v	0.6	0.5	0.1	9.0	1.8	0.0	0.0
5	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	0.5	0.3	0.1	7.8	2.6	0.3	0.2
6	Not washed off WeatherMax	21	oz/a	1.3	0.0	0.0	9.3	3.0	0.0	0.0
7	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	1.4	0.0	0.0	9.5	3.6	0.3	0.1
8	Not washed off Aim coc	0.032	lb ai/a 1 % v/v	0.7	0.0	0.0	9.8	2.6	0.0	0.0
9	Not washed off Aim coc	0.048	lb ai/a 1 % v/v	1.4	0.0	0.0	6.5	2.3	0.0	0.0
10	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	1.1	0.0	0.0	7.0	2.6	0.0	0.0
11	No herbicide			0.8	0.3	0.1	10.3	3.2	0.0	0.0
LSD (P=.05)				1.01	0.40	0.08	5.24	1.82	0.31	0.14
Standard Deviation				0.70	0.28	0.06	3.63	1.26	0.22	0.10
CV				78.59	305.78	305.78	44.62	49.14	476.79	529.62
Bartlett's X2				21.131	0.083	0.083	5.266	10.317	0.0	3.019
P(Bartlett's X2)				0.02*	0.959	0.959	0.873	0.413	0.001*	0.082

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

University of Georgia

Weed Code	Harv12	Harv12	Harv12	Harv12	Harv13	Harv13	Harv13	
Crop Code	squash	squash	squash	squash	squash	squash	squash	
Rating Data Type	fruit	fruit	cull	cull wt	fruit	fruit	cull	
Rating Unit	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot	
Rating Date	Sep-24-03	Sep-24-03	Sep-24-03	Sep-24-03	Sep-26-03	Sep-26-03	Sep-26-03	
Trt-Eval Interval	51 DA-A	51 DA-A	51 DA-A	51 DA-A	53 DA-A	53 DA-A	53 DA-A	
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
No. Name	Unit	Unit	Unit	Unit	Unit	Unit	Unit	
1 Washed off 0.75"irrigatio WeatherMax	21 oz/a	11.0	2.7	0.3	0.1	11.8	2.5	0.3
2 Washed off 0.75"irrigatio Aim coc	0.016 lb ai/a 1 % v/v	6.0	1.4	0.0	0.0	14.8	3.0	0.0
3 Washed off 0.75"irrigatio Aim coc	0.032 lb ai/a 1 % v/v	13.3	3.3	0.3	0.1	11.5	2.6	0.8
4 Washed off 0.75"irrigatio Aim coc	0.048 lb ai/a 1 % v/v	11.3	2.8	0.0	0.0	10.8	2.7	0.0
5 Washed off 0.75"irrigatio Aim coc	0.016 lb ai/a 1 % v/v	9.3	2.6	0.0	0.0	12.0	2.7	0.3
6 Not washed off WeatherMax	21 oz/a	11.5	3.5	0.0	0.0	11.8	3.0	0.0
7 Not washed off Aim coc	0.016 lb ai/a 1 % v/v	10.8	2.9	0.0	0.0	10.0	2.5	0.3
8 Not washed off Aim coc	0.032 lb ai/a 1 % v/v	9.5	2.6	0.3	0.1	11.3	2.4	0.0
9 Not washed off Aim coc	0.048 lb ai/a 1 % v/v	11.5	3.0	0.0	0.0	16.3	4.0	0.5
10 Not washed off Aim coc	0.016 lb ai/a 1 % v/v	9.0	2.3	0.0	0.0	10.5	2.3	0.3
11 No herbicide		6.3	1.5	0.3	0.1	9.5	2.8	0.3
LSD (P=.05)		4.64	1.45	0.44	0.14	6.63	1.56	0.79
Standard Deviation		3.21	1.00	0.31	0.10	4.59	1.08	0.55
CV		32.36	38.71	337.14	355.38	38.88	39.26	241.61
Bartlett's X2		0.802	3.091	0.0	2.58	6.53	4.884	4.113
P(Bartlett's X2)		1.00	0.979	0.001*	0.461	0.769	0.899	0.661

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

University of Georgia

Weed Code	Harv13	Harv14	Harv14	Harv14	Harv14	Tot1st3p	Tot1st3p		
Crop Code	squash	squash	squash	squash	squash	squash	squash		
Rating Data Type	cull wt	fruit	fruit	cull	cull wt	fruit	fruit		
Rating Unit	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot		
Rating Date	Sep-26-03	Sep-29-03	Sep-29-03	Sep-29-03	Sep-29-03	Jan-13-04	Jan-13-04		
Trt-Eval Interval	53 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A				
ARM Action Codes						T9	T10		
# Subsamples, Dec.									
Trt Treatment	Rate	Unit	113	114	115	116	117	118	119
1 Washed off 0.75"irrigatio WeatherMax	21	oz/a	0.1	14.0	4.5	0.8	0.4	12.0	2.5
2 Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	0.0	18.0	6.7	0.0	0.0	15.5	3.3
3 Washed off 0.75"irrigatio Aim coc	0.032	lb ai/a 1 % v/v	0.4	18.3	7.9	0.0	0.0	14.0	2.9
4 Washed off 0.75"irrigatio Aim coc	0.048	lb ai/a 1 % v/v	0.0	16.8	6.6	0.5	0.2	12.3	2.3
5 Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	0.1	19.3	6.4	0.0	0.0	13.8	2.9
6 Not washed off WeatherMax	21	oz/a	0.0	16.3	6.1	0.0	0.0	7.8	1.4
7 Not washed off Aim coc	0.016	lb ai/a 1 % v/v	0.2	16.8	5.4	0.0	0.0	18.0	3.0
8 Not washed off Aim coc	0.032	lb ai/a 1 % v/v	0.0	16.3	5.8	0.0	0.0	13.5	2.6
9 Not washed off Aim coc	0.048	lb ai/a 1 % v/v	0.4	17.8	6.3	0.3	0.2	10.3	1.9
10 Not washed off Aim coc	0.016	lb ai/a 1 % v/v	0.1	15.0	5.5	0.0	0.0	11.8	2.4
11 No herbicide			0.1	18.5	5.3	0.5	0.3	11.3	1.7
LSD (P=.05)			0.45	10.77	4.73	0.79	0.42	5.80	1.17
Standard Deviation			0.31	7.46	3.28	0.55	0.29	4.02	0.81
CV			265.22	43.93	54.33	300.49	318.47	31.55	33.56
Bartlett's X2			13.143	21.481	29.133	5.313	6.278	10.847	6.523
P(Bartlett's X2)			0.041*	0.018*	0.001*	0.15	0.099	0.37	0.77

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

Column 118: T9 = [C62]+[C66]+[C70]

Column 119: T10 = [C63]+[C67]+[C71]

University of Georgia

Weed Code	Tot1st3p squash cull #/plot Jan-13-04	Tot1st3p squash cull lb/plot Jan-13-04	Total squash fruit #/plot Jan-13-04	Total squash fruit lb/plot Jan-13-04	Total squash cull #/plot Jan-13-04	Total squash cull lb/plot Jan-13-04	tomato jumbo # Oct-29-03 86 DA-A			
Crop Code										
Rating Data Type										
Rating Unit										
Rating Date										
Trt-Eval Interval										
ARM Action Codes	T11	T12	T13	T15	T16	T17				
# Subsamples, Dec.				1	1					
Trt No.	Treatment Name	Rate	Unit	120	121	122	123	124	125	126
1	Washed off 0.75"irrigatio WeatherMax	21	oz/a	0.0	0.0	107.5	29.6	3.5	1.2	30.5
2	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	0.3	0.1	110.8	34.2	2.0	0.6	26.5
3	Washed off 0.75"irrigatio Aim coc	0.032	lb ai/a 1 % v/v	0.0	0.0	122.5	35.7	1.5	0.6	36.5
4	Washed off 0.75"irrigatio Aim coc	0.048	lb ai/a 1 % v/v	0.0	0.0	112.3	31.7	4.5	1.1	35.5
5	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	0.3	0.0	110.0	33.4	2.5	0.7	35.0
6	Not washed off WeatherMax	21	oz/a	0.0	0.0	102.5	31.0	2.3	0.8	13.0
7	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	0.0	0.0	118.3	32.5	1.5	0.5	22.5
8	Not washed off Aim coc	0.032	lb ai/a 1 % v/v	0.0	0.0	105.0	29.6	0.8	0.3	36.0
9	Not washed off Aim coc	0.048	lb ai/a 1 % v/v	0.0	0.0	119.0	33.3	1.8	0.8	32.5
10	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	0.0	0.0	107.5	32.0	0.5	0.2	26.8
11	No herbicide			0.0	0.0	100.8	26.9	2.3	0.9	30.3
LSD (P=.05)		0.31		0.04		17.45	7.24	2.96	0.98	9.51
Standard Deviation		0.22		0.03		12.08	5.02	2.05	0.67	6.58
CV		476.79		610.26		10.93	15.78	98.05	100.9	22.28
Bartlett's X2		0.0		0.0		7.864	13.173	11.91	10.146	15.395
P(Bartlett's X2)		0.001*		.		0.642	0.214	0.291	0.428	0.118

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

Column 120: T11 = [C64]+[C68]+[C72]

Column 121: T12 = [C65]+[C69]+[C73]

Column 122: T13 = [62]+[66]+[70]+[74]+[78]+[82]+[86]+[90]+[94]+[98]+[102]+[106]+[110]+[114]

Column 123: T15 = [63]+[67]+[71]+[75]+[79]+[83]+[87]+[91]+[95]+[99]+[103]+[107]+[111]+[115]

Column 124: T16 = [64]+[68]+[72]+[76]+[80]+[84]+[88]+[92]+[96]+[100]+[104]+[108]+[112]+[116]

Column 125: T17 = [65]+[69]+[73]+[77]+[81]+[85]+[89]+[93]+[97]+[101]+[105]+[109]+[113]+[117]

University of Georgia

Weed Code			tomato jumbo wt lb	tomato large #	tomato large wt lb	tomato medium #	tomato medium wt lb	tomato small #	tomato small wt lb	
Crop Code			Oct-29-03	Oct-29-03	Oct-29-03	Oct-29-03	Oct-29-03	Oct-29-03	Oct-29-03	
Rating Data Type			86 DA-A	86 DA-A	86 DA-A	86 DA-A	86 DA-A	86 DA-A	86 DA-A	
Rating Unit										
Rating Date										
Trt-Eval Interval										
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	127	128	129	130	131	132	133
1	Washed off 0.75"irrigatio WeatherMax	21	oz/a	21.7	15.0	5.7	23.3	6.1	66.0	7.9
2	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	16.4	16.0	5.8	20.5	4.6	62.5	8.1
3	Washed off 0.75"irrigatio Aim coc	0.032	lb ai/a 1 % v/v	21.9	12.0	4.7	15.5	4.6	67.3	8.6
4	Washed off 0.75"irrigatio Aim coc	0.048	lb ai/a 1 % v/v	22.4	16.5	6.2	20.0	5.3	49.5	6.9
5	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	21.7	11.8	4.4	18.3	5.1	61.0	8.5
6	Not washed off WeatherMax	21	oz/a	7.2	13.3	5.7	27.8	8.1	77.0	10.7
7	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	17.7	18.3	7.1	25.3	7.2	47.8	7.8
8	Not washed off Aim coc	0.032	lb ai/a 1 % v/v	22.6	18.3	6.9	23.5	9.8	59.0	7.5
9	Not washed off Aim coc	0.048	lb ai/a 1 % v/v	19.2	13.0	8.8	24.3	6.4	63.5	8.0
10	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	17.4	17.8	6.9	26.0	7.0	56.3	7.4
11	No herbicide			18.8	16.8	6.6	16.5	4.6	62.0	8.6
LSD (P=.05)				5.37	5.88	3.69	11.46	4.58	37.14	4.30
Standard Deviation				3.72	4.07	2.55	7.94	3.17	25.72	2.98
CV				19.8	26.57	41.03	36.28	51.05	42.12	36.49
Bartlett's X2				9.29	7.956	25.044	6.746	18.466	13.78	14.874
P(Bartlett's X2)				0.505	0.633	0.005*	0.749	0.048*	0.183	0.137

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

University of Georgia

Weed Code				Total	Toatl		
Crop Code			tomato	tomato	tomato		
Rating Data Type			cull	cull wt	fruit		
Rating Unit			#	lb	fruit		
Rating Date			Oct-29-03	Oct-29-03	Jan-13-04		
Trt-Eval Interval			86 DA-A	86 DA-A	Jan-13-04		
ARM Action Codes				T18	T19		
# Subsamples, Dec.							
Trt No.	Treatment Name	Rate	Unit				
1	Washed off 0.75"irrigatio WeatherMax	21	oz/a	10.8	5.1	134.8	41.3
2	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	6.8	3.2	125.5	34.8
3	Washed off 0.75"irrigatio Aim coc	0.032	lb ai/a 1 % v/v	5.8	3.3	131.3	39.7
4	Washed off 0.75"irrigatio Aim coc	0.048	lb ai/a 1 % v/v	7.8	4.1	121.5	40.7
5	Washed off 0.75"irrigatio Aim coc	0.016	lb ai/a 1 % v/v	10.8	4.3	126.0	39.6
6	Not washed off WeatherMax	21	oz/a	7.5	3.5	131.0	31.6
7	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	7.0	3.2	113.8	39.6
8	Not washed off Aim coc	0.032	lb ai/a 1 % v/v	7.8	3.9	136.8	46.8
9	Not washed off Aim coc	0.048	lb ai/a 1 % v/v	6.8	2.5	133.3	42.3
10	Not washed off Aim coc	0.016	lb ai/a 1 % v/v	8.5	3.9	126.8	38.6
11	No herbicide			6.3	3.2	125.5	38.4
LSD (P=.05)				4.65	2.31	43.49	8.43
Standard Deviation				3.22	1.60	30.12	5.84
CV				41.41	43.93	23.57	14.82
Bartlett's X2				10.681	3.993	9.475	10.716
P(Bartlett's X2)				0.383	0.948	0.488	0.38

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

Column 136: T18 = [126]+[128]+[130]+[132]

Column 137: T19 = [127]+[129]+[131]+[133]

Trial Comments

OBJECTIVE: Evaluate the potential injury of vegetables from applying herbicides overtop of plastic prior to planting.

VISUAL INJURY:

- At 2 d after transplanting tomato, visual injury was insignificant (<4%).
- At 19 and 30 d after transplanting tomato, visual injury was an issue with only WeatherMax WHEN only not washed off.
- At 2 d after transplanting squash, visual injury was insignificant (<4%).
- At 19 d after transplanting squash, injury from WeatherMax was 32%. Injury from several Aim treatments ranged from 5 to 11% with speckling and minor chlorosis.
- By 30 d after transplanting squash, injury from WeatherMax not washed off was the only treatment with significant injury(19%). Remarkably, the squash was recovering from the glyphosate injury.

HEIGHT RESPONSE (MEASURE OF 10 PLANTS PER PLOT):

University of Georgia

1. Only glyphosate not washed off impacted tomato growth at 14 and 28 d after transplanting (up to 50%). By 49 d after transplanting a trend for smaller plants was noted with the glyphosate not washed off treatment.
2. No treatment, even glyphosate, affected the heights of the squash.

YIELDS (Entire squash plot harvested 14 times, 6 tomato plots per plot harvested once):

1. Tomato yields were not impacted by herbicide treatments except when glyphosate was not washed off.
2. Squash yields were not affected by herbicide treatments when looking at individual harvest dates, first three harvest dates, or total harvest dates. A trend did occur for less yield when pooling over the 1st three harvest dates for the WeatherMax not washed off treatment.

CONCLUSIONS:

1. Aim, regardless of being washed off or not, did not impact tomato or squash performance.
2. Squash amazing recovered from initial glyphosate injury when glyphosate was not washed off.

GENERAL COMMENTS:

1. Applied Telone C35 at 22 GPA on July 15.
2. Laid plastic on July 28.
3. Sprayed wash off treatments on Aug 4. Washed off with 0.5 inch that day.
4. Sprayed non-wash off on August 6, transplanted, and then within 2 hours it rain 0.5 inch. Agressive rain storm.
5. I believe this is a absolute worst case situation.