

University of Georgia

Squash and tomato response to Matrix and Sinbar applied over plastic before transplant.

Trial ID: Veg40-03
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:** 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 1: LYPES TOMATO **Variety:** Amelia
Planting Date: Aug-06-03 **Planting Method:** transplant
Rate: 1 18inch **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: CUUMA SQUASH, WINTER **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

SITE AND DESIGN

Plot Width, Unit: 6 FT **Plot Length, Unit:** 25 FT **Reps:** 3
Site Type: research station
Tillage Type: conventional **Study Design:** SPLIT-PLOT

SOIL DESCRIPTION

% Sand: 94 **% OM:** 1.3 **Texture:** sand
% Silt: 2 **pH:** 6.4 **Soil Name:** Tifton sandy loam
% Clay: 4

APPLICATION DESCRIPTION

	A	B
Application Date:	Aug-04-03	Aug-06-03
Time of Day:	3:00pm	9:00am
Application Method:	broadcast	broadcast
Application Timing:	bef. wash	aft. wash
Applic. Placement:	on plasti	on plasti
Air Temp., Unit:	85 f	83 f
% Relative Humidity:	69	68
Wind Velocity, Unit:	2 mph	2 mph
Dew Presence (Y/N):	n	n
Soil Moisture:	wet	
% Cloud Cover:	100	100

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	LYPES .	LYPES .
Stage Scale:	.	.
Height, Unit:	0. .	0. .
Crop 2 Code, Stage:	CUUMA .	CUUMA .
Stage Scale:	.	.
Height, Unit:	0. .	0. .

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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:	3	3
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

Squash and tomato response to Matrix and Sinbar applied over plastic before transplant.

Trial ID: Veg40-03

Study Dir.: Culpepper

Location: Ponder farm

Investigator: Stanley Culpepper

Weed Code		tomato	tomato	squash	squash	tomato	tomato	tomato		
Crop Code		injury	injury	injury	injury	ht	ht	ht		
Rating Data Type		percent	percent	percent	percent	cm	cm	cm		
Rating Unit										
Rating Date		Aug-25-03	Sep-05-03	Aug-25-03	Sep-05-03	Aug-20-03	Aug-20-03	Aug-20-03		
Trt-Eval Interval		21 DA-A	32 DA-A	21 DA-A	32 DA-A	16 DA-A	16 DA-A	16 DA-A		
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7
1	Wash OFF 0.75 inch Sinbar	3	oz/a	5.0	3.3	6.7	0.0	23.7	22.7	23.3
2	Wash OFF 0.75 inch Matrix NIS	2	oz/a 0.25 % v/v	8.3	1.7	31.7	8.3	25.0	24.7	22.7
3	No wash off Matrix NIS	3	oz/a 0.25 % v/v	21.7	6.7	80.0	81.7	22.7	14.7	19.3
4	No wash off Sinbar	2	oz/a	50.0	36.7	95.0	90.0	7.7	18.7	7.0
5	No herbicide			0.0	0.0	0.0	0.0	23.7	23.0	24.0
LSD (P=.05)				21.09	10.80	17.49	15.66	11.32	11.37	11.97
Standard Deviation				11.20	5.74	9.29	8.32	6.01	6.04	6.35
CV				65.88	59.35	21.77	23.1	29.27	29.13	32.98
Bartlett's X2				7.983	1.47	4.305	1.641	11.838	14.341	13.533
P(Bartlett's X2)				0.018*	0.689	0.116	0.44	0.019*	0.006*	0.009*

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	Wash OFF 0.75 inch Sinbar	3 oz/a		22.3	20.7	22.3	23.3	24.0	23.0	22.7
2	Wash OFF 0.75 inch Matrix NIS	2 oz/a 0.25 % v/v		23.7	22.3	20.7	21.0	21.7	23.3	16.0
3	No wash off Matrix NIS	3 oz/a 0.25 % v/v		17.0	23.3	15.3	21.7	25.0	22.0	21.7
4	No wash off Sinbar	2 oz/a		5.0	21.0	11.3	19.3	13.3	13.0	13.3
5	No herbicide			22.7	24.7	23.3	24.7	19.0	24.3	23.0
LSD (P=.05)				16.22	3.73	15.30	6.02	11.30	10.63	16.30
Standard Deviation				8.62	1.98	8.13	3.20	6.00	5.64	8.66
CV				47.51	8.85	43.68	14.54	29.13	26.7	44.77
Bartlett's X2				15.069	1.781	9.04	6.421	12.791	14.265	10.209
P(Bartlett's X2)				0.005*	0.776	0.06	0.17	0.012*	0.006*	0.037*

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

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Weed Code	AVG.10pl	tomato	tomato	tomato	tomato	tomato	tomato	tomato		
Crop Code	tomato	tomato	tomato	tomato	tomato	tomato	tomato	tomato		
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht		
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm		
Rating Date	Aug-20-03	Sep-04-03	Sep-04-03	Sep-04-03	Sep-04-03	Sep-04-03	Sep-04-03	Sep-04-03		
Trt-Eval Interval		31 DA-A	31 DA-A	31 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	Wash OFF 0.75 inch Sinbar	3 oz/a		22.8	39.3	44.7	37.3	36.7	32.0	38.0
2	Wash OFF 0.75 inch Matrix NIS	2 oz/a 0.25 % v/v		22.1	35.0	39.3	32.3	35.7	37.7	34.3
3	No wash off Matrix NIS	3 oz/a 0.25 % v/v		20.3	34.7	37.7	39.3	38.3	40.3	37.3
4	No wash off Sinbar	2 oz/a		13.0	36.0	36.0	33.0	35.3	31.0	12.3
5	No herbicide			23.2	38.0	41.0	35.3	40.0	37.0	43.0
LSD (P=.05)				5.68	10.58	8.54	9.46	9.44	10.84	20.68
Standard Deviation				3.02	5.62	4.54	5.03	5.01	5.75	10.98
CV				14.88	15.35	11.42	14.17	13.48	16.16	33.28
Bartlett's X2				5.771	6.959	3.311	3.948	2.706	4.09	9.447
P(Bartlett's X2)				0.217	0.138	0.507	0.413	0.608	0.394	0.051

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

Column 15: T1 = @AVG([C5].[C14])

University of Georgia

Weed Code	tomato	tomato	tomato	tomato	AVG.10pl tomato	squash	squash			
Crop Code	tomato	tomato	tomato	tomato	tomato	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-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					T2					
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	22	23	24	25	26	27	28
1	Wash OFF 0.75 inch Sinbar	3 oz/a		38.0	43.0	40.7	41.0	39.1	33.0	36.3
2	Wash OFF 0.75 inch Matrix NIS	2 oz/a 0.25 % v/v		39.0	40.0	42.3	44.0	38.0	27.7	27.0
3	No wash off Matrix NIS	3 oz/a 0.25 % v/v		39.0	25.0	23.3	26.3	34.1	11.3	10.0
4	No wash off Sinbar	2 oz/a		8.7	0.0	0.0	0.0	19.2	12.7	7.7
5	No herbicide			36.3	38.7	41.0	41.0	39.1	32.3	37.0
LSD (P=.05)				14.68	8.50	19.66	22.39	6.67	15.17	13.81
Standard Deviation				7.80	4.51	10.44	11.89	3.54	8.06	7.34
CV				24.22	15.39	35.43	39.03	10.45	34.44	31.08
Bartlett's X2				14.069	2.52	9.738	7.823	3.817	3.009	3.328
P(Bartlett's X2)				0.007*	0.472	0.021*	0.05*	0.431	0.556	0.505

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

Column 26: T2 = @AVG([C16].[C25])

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-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	Rate	Unit	Rate	Unit	Rate	Unit
1	Wash OFF 0.75 inch Sinbar	37.7	3 oz/a	38.7	3 oz/a	36.7	3 oz/a	36.0	3 oz/a
2	Wash OFF 0.75 inch Matrix NIS	36.7	2 oz/a 0.25 % v/v	30.7	2 oz/a 0.25 % v/v	27.0	2 oz/a 0.25 % v/v	31.3	2 oz/a 0.25 % v/v
3	No wash off Matrix NIS	10.3	3 oz/a 0.25 % v/v	7.3	3 oz/a 0.25 % v/v	8.3	3 oz/a 0.25 % v/v	9.7	3 oz/a 0.25 % v/v
4	No wash off Sinbar	5.0	2 oz/a	0.0	2 oz/a	0.0	2 oz/a	0.0	2 oz/a
5	No herbicide	31.0		35.0		32.3		36.0	
	LSD (P=.05)	16.41		10.43		9.18		7.16	
	Standard Deviation	8.71		5.54		4.88		3.80	
	CV	36.11		24.8		23.37		16.83	
	Bartlett's X2	3.314		2.353		2.594		1.127	
	P(Bartlett's X2)	0.507		0.503		0.459		0.771	

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

University of Georgia

Weed Code		Avg. 10pl								
Crop Code	squash	squash	squash	squash	squash	squash	squash	squash		
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht		
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm		
Rating Date	Sep-04-03	Sep-04-03	Sep-18-03	Sep-18-03	Sep-18-03	Sep-18-03	Sep-18-03	Sep-18-03		
Trt-Eval Interval	31 DA-A		45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A		
ARM Action Codes		T3								
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit							
36				37	38	39	40	41	42	
1	Wash OFF 0.75 inch Sinbar	3	oz/a	34.3	36.6	41.7	37.0	47.3	45.0	46.7
2	Wash OFF 0.75 inch Matrix NIS	2	oz/a 0.25 % v/v	23.3	32.4	41.3	44.3	50.0	45.7	46.0
3	No wash off Matrix NIS	3	oz/a 0.25 % v/v	2.3	16.0	17.7	17.3	15.0	14.0	17.3
4	No wash off Sinbar	2	oz/a	0.0	3.5	29.7	25.7	16.7	0.0	0.0
5	No herbicide			34.7	35.2	44.7	48.7	50.7	54.3	49.3
LSD (P=.05)				6.95	6.37	31.97	22.47	25.29	10.24	15.49
Standard Deviation				3.69	3.39	16.98	11.93	13.43	5.44	8.23
CV				19.49	13.68	48.51	34.49	37.39	17.1	25.82
Bartlett's X2				3.32	6.356	4.437	7.048	12.254	4.937	5.709
P(Bartlett's X2)				0.345	0.174	0.35	0.133	0.016*	0.176	0.127

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

Column 37: T3 = @AVG([C22].[C36])

University of Georgia

Weed Code		squash	squash	squash	squash	squash	AVG.10pl squash	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-18-03	Sep-18-03	Sep-18-03	Sep-18-03	Sep-18-03	Sep-18-03	Sep-18-03
Trt-Eval Interval		45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A		45 DA-A
ARM Action Codes							T4	
# Subsamples, Dec.							1	
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate
		43	44	45	46	47	48	49
1	Wash OFF 0.75 inch Sinbar	46.3	46.7	44.3	46.3	43.7	44.5	73.0
2	Wash OFF 0.75 inch Matrix NIS	51.0	52.3	45.3	40.3	16.0	43.2	67.7
3	No wash off Matrix NIS	15.3	17.7	10.7	10.0	10.0	14.5	70.0
4	No wash off Sinbar	0.0	0.0	0.0	0.0	0.0	7.2	50.7
5	No herbicide	48.3	49.7	52.7	47.3	44.7	49.0	68.7
	LSD (P=.05)	17.52	18.37	18.83	21.81	29.70	16.05	14.87
	Standard Deviation	9.31	9.76	10.00	11.58	15.77	8.53	7.90
	CV	28.9	29.33	32.68	40.22	68.98	26.9	11.97
	Bartlett's X2	9.295	5.816	5.926	7.678	12.38	9.15	3.147
	P(Bartlett's X2)	0.026*	0.121	0.115	0.053	0.006*	0.057	0.534

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

Column 48: T4 = @AVG([C38].[C47])

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	Sep-18-03	Sep-18-03	Sep-18-03	Sep-18-03	Sep-18-03	Sep-18-03	Sep-18-03			
Trt-Eval Interval	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A			
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	50	51	52	53	54	55	56
1	Wash OFF 0.75 inch Sinbar	3	oz/a	75.7	72.3	76.0	74.3	72.0	70.7	68.7
2	Wash OFF 0.75 inch Matrix NIS	2	oz/a 0.25 % v/v	74.3	68.7	76.7	74.0	74.3	72.0	70.3
3	No wash off Matrix NIS	3	oz/a 0.25 % v/v	68.0	64.7	68.0	67.3	73.3	69.7	66.3
4	No wash off Sinbar	2	oz/a	63.0	43.3	53.7	61.3	39.0	18.0	16.7
5	No herbicide			73.0	75.0	77.0	73.0	73.3	73.3	69.7
LSD (P=.05)				14.77	13.89	12.16	7.21	31.42	30.45	30.10
Standard Deviation				7.85	7.37	6.46	3.83	16.69	16.17	15.99
CV				11.08	11.38	9.19	5.47	25.14	26.63	27.4
Bartlett's X2				4.247	1.423	4.367	2.762	17.55	12.386	8.9
P(Bartlett's X2)				0.374	0.84	0.359	0.598	0.002*	0.015*	0.064

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

University of Georgia

Weed Code	tomato	tomato	AVG.10pl 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	Sep-18-03	Sep-18-03	Sep-18-03	Sep-24-03	Sep-24-03	Sep-24-03	Sep-24-03			
Trt-Eval Interval	45 DA-A	45 DA-A		51 DA-A	51 DA-A	51 DA-A	51 DA-A			
ARM Action Codes			T5							
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Rate Unit	57	58	59	60	61	62	63
1	Wash OFF 0.75 inch Sinbar	3 oz/a		73.3	76.0	73.2	82.0	85.7	83.0	85.3
2	Wash OFF 0.75 inch Matrix NIS	2 oz/a 0.25 % v/v		72.3	66.3	71.7	84.0	85.3	81.7	83.3
3	No wash off Matrix NIS	3 oz/a 0.25 % v/v		49.0	43.0	63.9	81.3	73.3	75.0	78.7
4	No wash off Sinbar	2 oz/a		16.7	16.7	37.9	74.0	70.7	78.3	60.0
5	No herbicide			75.3	73.0	73.1	84.7	85.3	86.0	85.7
LSD (P=.05)				45.94	40.71	13.91	13.21	10.08	8.32	15.05
Standard Deviation				24.40	21.62	7.39	7.02	5.35	4.42	7.99
CV				42.55	39.32	11.55	8.64	6.69	5.47	10.17
Bartlett's X2				11.278	11.485	3.52	6.345	8.385	2.918	5.559
P(Bartlett's X2)				0.024*	0.022*	0.475	0.175	0.078	0.572	0.235

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

Column 59: T5 = @AVG([C49].[C58])

University of Georgia

Weed Code		tomato	tomato	tomato	tomato	tomato	tomato	AVG.10pl		
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		Sep-24-03	Sep-24-03	Sep-24-03	Sep-24-03	Sep-24-03	Sep-24-03	Sep-24-03		
Trt-Eval Interval		51 DA-A	51 DA-A	51 DA-A	51 DA-A	51 DA-A	51 DA-A			
ARM Action Codes								T6		
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit							
64		65		66	67	68	69	70		
1	Wash OFF 0.75 inch Sinbar	3 oz/a		81.0	83.7	87.3	82.0	86.7	53.7	81.0
2	Wash OFF 0.75 inch Matrix NIS	2 oz/a 0.25 % v/v		87.0	83.3	84.0	79.7	81.7	59.0	80.9
3	No wash off Matrix NIS	3 oz/a 0.25 % v/v		72.7	79.3	75.7	78.0	82.3	79.7	75.5
4	No wash off Sinbar	2 oz/a		69.7	70.7	50.0	20.0	20.0	19.7	53.3
5	No herbicide			85.3	86.3	85.0	83.0	86.3	86.0	85.4
	LSD (P=.05)			9.32	13.00	38.94	34.03	33.04	67.38	16.97
	Standard Deviation			4.95	6.90	20.68	18.07	17.55	35.79	9.01
	CV			6.25	8.56	27.07	26.37	24.58	60.05	11.98
	Bartlett's X2			1.236	6.826	18.691	9.612	18.069	7.366	2.808
	P(Bartlett's X2)			0.872	0.145	0.001*	0.047*	0.001*	0.118	0.59

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

Column 70: T6 = @AVG([C60].[C69])

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-24-03	Sep-24-03	Sep-24-03	Sep-24-03	Sep-24-03	Sep-24-03	Sep-24-03						
Trt-Eval Interval		51 DA-A	51 DA-A	51 DA-A	51 DA-A	51 DA-A	51 DA-A	51 DA-A						
ARM Action Codes														
# Subsamples, Dec.														
Trt No.	Treatment Name	Rate	Unit											
		71		72		73		74		75		76		77
1	Wash OFF 0.75 inch Sinbar	42.7	3 oz/a	48.0		49.0		43.0		42.0		44.3		39.3
2	Wash OFF 0.75 inch Matrix NIS	39.0	2 oz/a 0.25 % v/v	47.7		47.7		44.3		49.7		46.0		40.0
3	No wash off Matrix NIS	18.7	3 oz/a 0.25 % v/v	18.7		15.3		15.7		13.3		13.3		12.3
4	No wash off Sinbar	24.3	2 oz/a	26.7		13.7		0.0		0.0		0.0		0.0
5	No herbicide	40.7		46.3		45.7		45.7		41.7		39.3		39.0
	LSD (P=.05)	28.79		19.40		26.01		25.96		19.61		19.44		19.29
	Standard Deviation	15.29		10.30		13.81		13.79		10.42		10.32		10.24
	CV	46.24		27.49		40.31		46.38		35.51		36.1		39.2
	Bartlett's X2	1.652		11.168		11.58		14.332		11.043		13.913		4.773
	P(Bartlett's X2)	0.799		0.025*		0.021*		0.002*		0.011*		0.003*		0.189

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

University of Georgia

Weed Code		squash	squash	squash	AVG.10pl squash	Harv1 squash	Harv1 squash	Harv1 squash		
Crop Code		ht	ht	ht	ht	fruit	fruit	cull		
Rating Data Type		cm	cm	cm	cm	#/plot	lb/plot	#/plot		
Rating Unit		Sep-24-03	Sep-24-03	Sep-24-03	Sep-24-03	Aug-29-03	Aug-29-03	Aug-29-03		
Rating Date		51 DA-A	51 DA-A	51 DA-A	51 DA-A	25 DA-A	25 DA-A	25 DA-A		
Trt-Eval Interval										
ARM Action Codes					T7					
# Subsamples, Dec.					1					
Trt No.	Treatment Name	Rate	Unit	78	79	80	81	82	83	84
1	Wash OFF 0.75 inch Sinbar	3 oz/a		30.0	25.0	26.7	39.0	4.0	0.7	0.0
2	Wash OFF 0.75 inch Matrix NIS	2 oz/a 0.25 % v/v		42.7	36.0	45.7	43.9	0.3	0.1	0.0
3	No wash off Matrix NIS	3 oz/a 0.25 % v/v		13.0	10.7	13.0	14.4	0.0	0.0	0.0
4	No wash off Sinbar	2 oz/a		0.0	0.0	0.0	6.5	0.0	0.0	0.0
5	No herbicide			46.0	38.7	28.7	41.2	3.0	0.5	0.0
LSD (P=.05)				29.42	30.03	38.26	18.84	1.35	0.40	0.00
Standard Deviation				15.62	15.95	20.32	10.01	0.72	0.21	0.00
CV				59.33	72.29	89.12	34.52	49.01	79.84	0.0
Bartlett's X2				6.31	1.929	2.521	10.893	0.633	1.72	0.0
P(Bartlett's X2)				0.097	0.587	0.472	0.028*	0.729	0.423	.

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

Column 81: T7 = @AVG([C71].[C80])

University of Georgia

Weed Code	Harv1	Harv2	Harv2	Harv2	Harv2	Harv3	Harv3			
Crop Code	squash	squash	squash	squash	squash	squash	squash			
Rating Data Type	cull	fruit	fruit	cull	cull	fruit	fruit			
Rating Unit	wt/plot	#/plot	lb/plot	#/plot	wt/plot	#/plot	lb/plot			
Rating Date	Aug-29-03	Sep-01-03	Sep-01-03	Sep-01-03	Sep-01-03	Sep-03-03	Sep-03-03			
Trt-Eval Interval	25 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	30 DA-A	30 DA-A			
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	85	86	87	88	89	90	91
1	Wash OFF 0.75 inch Sinbar	3	oz/a	0.0	9.0	2.0	0.0	0.0	5.3	1.1
2	Wash OFF 0.75 inch Matrix NIS	2	oz/a 0.25 % v/v	0.0	6.3	1.2	0.0	0.0	4.0	0.8
3	No wash off Matrix NIS	3	oz/a 0.25 % v/v	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	No wash off Sinbar	2	oz/a	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	No herbicide			0.0	8.7	1.7	0.0	0.0	8.0	1.5
LSD (P=.05)				0.00	3.19	0.46	0.00	0.00	3.16	0.81
Standard Deviation				0.00	1.69	0.25	0.00	0.00	1.68	0.43
CV				0.0	35.27	24.96	0.0	0.0	48.41	62.2
Bartlett's X2				0.0	1.36	0.333	0.0	0.0	0.641	0.006
P(Bartlett's X2)				.	0.507	0.847	.	.	0.726	0.997

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

University of Georgia

Weed Code	Harv3 squash cull #/plot Sep-03-03 30 DA-A	Harv3 squash cull wt/plot Sep-03-03 30 DA-A	Harv4 squash fruit #/plot Sep-05-03 32 DA-A	Harv4 squash fruit lb/plot Sep-05-03 32 DA-A	Har4 squash cull #/plot Sep-05-03 32 DA-A	Harv4 squash cull wt/plot Sep-05-03 32 DA-A	Harv5 squash fruit #/plot Sep-08-03 35 DA-A
ARM Action Codes # Subsamples, Dec.							
Trt Treatment No. Name Rate Unit	92	93	94	95	96	97	98
1 Wash OFF 0.75 inch Sinbar 3 oz/a	0.0	0.0	8.7	2.1	0.0	0.0	2.7
2 Wash OFF 0.75 inch Matrix 2 oz/a NIS 0.25 % v/v	0.0	0.0	5.7	1.0	0.3	0.1	3.0
3 No wash off Matrix 3 oz/a NIS 0.25 % v/v	0.0	0.0	0.7	0.1	0.0	0.0	0.0
4 No wash off Sinbar 2 oz/a	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 No herbicide	0.0	0.0	8.3	1.8	0.0	0.0	3.0
LSD (P=.05)	0.00	0.00	3.93	0.95	0.49	0.10	3.32
Standard Deviation	0.00	0.00	2.09	0.51	0.26	0.05	1.77
CV	0.0	0.0	44.78	51.28	387.3	387.3	101.85
Bartlett's X2	0.0	0.0	3.941	5.556	0.0	0.0	1.779
P(Bartlett's X2)	.	.	0.268	0.135	.	.	0.411

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

University of Georgia

Weed Code	Harv5 squash	Har5 squash	Harv5 squash	Harv6 squash	Harv6 squash	Harv6 squash	Harv6 squash			
Crop Code	fruit	cull	cull	fruit	fruit	cull	cull			
Rating Data Type	lb/plot	#/plot	wt/plot	#/plot	lb/plot	#/plot	wt/plot			
Rating Unit	Sep-08-03	Sep-08-03	Sep-08-03	Sep-10-03	Sep-10-03	Sep-10-03	Sep-10-03			
Rating Date	35 DA-A	35 DA-A	35 DA-A	37 DA-A	37 DA-A	37 DA-A	37 DA-A			
Trt-Eval Interval										
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	99	100	101	102	103	104	105
1	Wash OFF 0.75 inch Sinbar	3 oz/a		0.7	0.3	0.2	1.3	0.3	0.0	0.0
2	Wash OFF 0.75 inch Matrix NIS	2 oz/a 0.25 % v/v		0.6	0.0	0.0	5.7	1.1	0.0	0.0
3	No wash off Matrix NIS	3 oz/a 0.25 % v/v		0.0	0.3	0.1	0.0	0.0	0.0	0.0
4	No wash off Sinbar	2 oz/a		0.0	0.0	0.0	1.3	0.5	0.3	0.3
5	No herbicide			0.9	0.3	0.1	4.0	0.9	0.0	0.0
LSD (P=.05)				1.05	0.84	0.32	5.48	1.34	0.49	0.39
Standard Deviation				0.56	0.45	0.17	2.91	0.71	0.26	0.21
CV				126.68	223.61	251.0	118.08	123.91	387.3	387.3
Bartlett's X2				1.262	0.0	3.124	1.585	1.284	0.0	0.0
P(Bartlett's X2)				0.532	0.001*	0.21	0.663	0.733	.	.

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

University of Georgia

Weed Code	Harv7 squash	Harv7 squash	Harv7 squash	Harv7 squash	Harv8 squash	Harv8 squash	Harv8 squash			
Crop Code	fruit	fruit	cull	cull	fruit	fruit	cull			
Rating Data Type	#/plot	lb/plot	#/plot	wt/plot	#/plot	lb/plot	#/plot			
Rating Unit	Sep-12-03	Sep-12-03	Sep-12-03	Sep-12-03	Sep-16-03	Sep-16-03	Sep-16-03			
Rating Date	39 DA-A	39 DA-A	39 DA-A	39 DA-A	43 DA-A	43 DA-A	43 DA-A			
Trt-Eval Interval										
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	106	107	108	109	110	111	112
1	Wash OFF 0.75 inch Sinbar	3 oz/a		9.3	2.5	0.0	0.0	7.3	3.5	0.0
2	Wash OFF 0.75 inch Matrix NIS	2 oz/a 0.25 % v/v		8.3	2.2	0.7	0.3	6.3	3.7	0.0
3	No wash off Matrix NIS	3 oz/a 0.25 % v/v		0.7	0.1	0.0	0.0	1.7	0.7	0.0
4	No wash off Sinbar	2 oz/a		0.0	0.0	0.0	0.0	0.7	0.3	0.7
5	No herbicide			12.7	3.1	1.3	0.5	8.3	4.9	0.0
LSD (P=.05)				5.15	1.27	1.42	0.61	6.93	3.50	0.49
Standard Deviation				2.74	0.67	0.75	0.32	3.68	1.86	0.26
CV				44.12	42.07	188.19	209.87	75.64	70.4	193.65
Bartlett's X2				2.14	3.213	0.147	0.069	7.167	7.864	0.0
P(Bartlett's X2)				0.544	0.36	0.701	0.793	0.127	0.097	.

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

University of Georgia

Weed Code	Harv8	Harv9	Harv9	Harv9	Harv9	Harv10	Harv10		
Crop Code	squash	squash	squash	squash	squash	squash	squash		
Rating Data Type	cull	fruit	fruit	cull	cull	fruit	fruit		
Rating Unit	wt/plot	#/plot	lb/plot	#/plot	wt/plot	#/plot	lb/plot		
Rating Date	Sep-16-03	Sep-17-03	Sep-17-03	Sep-17-03	Sep-17-03	Sep-19-03	Sep-19-03		
Trt-Eval Interval	43 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A	46 DA-A	46 DA-A		
ARM Action Codes									
# Subsamples, Dec.									
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
No. Name	Rate	Unit	113	114	115	116	117	118	119
1 Wash OFF 0.75 inch Sinbar	3 oz/a		0.0	17.7	5.6	0.3	0.1	3.3	0.7
2 Wash OFF 0.75 inch Matrix NIS	2 oz/a 0.25 % v/v		0.0	13.7	4.9	1.7	0.6	5.0	1.5
3 No wash off Matrix NIS	3 oz/a 0.25 % v/v		0.0	2.7	0.9	0.0	0.0	0.7	0.1
4 No wash off Sinbar	2 oz/a		0.4	0.7	0.1	0.0	0.0	0.0	0.0
5 No herbicide			0.0	20.3	5.9	0.0	0.0	3.3	0.6
LSD (P=.05)			0.34	7.96	1.76	1.90	0.67	5.75	1.64
Standard Deviation			0.18	4.23	0.93	1.01	0.36	3.06	0.87
CV			223.61	38.43	26.85	252.07	242.66	123.85	148.53
Bartlett's X2			0.0	4.204	6.272	2.527	2.069	4.865	6.021
P(Bartlett's X2)			.	0.379	0.18	0.112	0.15	0.182	0.111

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

University of Georgia

Weed Code	Harv10	Harv10	Harv11	Harv11	Harv11	Harv11	Harv11	Harv12		
Crop Code	squash	squash	squash	squash	squash	squash	squash	squash		
Rating Data Type	cull	cull	fruit	fruit	cull	cull	fruit	fruit		
Rating Unit	#/plot	wt/plot	#/plot	lb/plot	#/plot	wt/plot	#/plot	#/plot		
Rating Date	Sep-19-03	Sep-19-03	Sep-22-03	Sep-22-03	Sep-22-03	Sep-22-03	Sep-24-03	Sep-24-03		
Trt-Eval Interval	46 DA-A	46 DA-A	49 DA-A	49 DA-A	49 DA-A	49 DA-A	51 DA-A	51 DA-A		
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	120	121	122	123	124	125	126
1	Wash OFF 0.75 inch Sinbar	3 oz/a		0.0	0.0	5.0	2.3	1.3	1.0	14.7
2	Wash OFF 0.75 inch Matrix NIS	2 oz/a 0.25 % v/v		0.0	0.0	5.0	2.0	0.3	0.2	13.0
3	No wash off Matrix NIS	3 oz/a 0.25 % v/v		0.0	0.0	1.7	0.9	0.7	0.3	4.7
4	No wash off Sinbar	2 oz/a		0.0	0.0	1.0	0.3	0.3	0.1	5.7
5	No herbicide			0.0	0.0	5.7	1.9	0.0	0.0	19.3
LSD (P=.05)				0.00	0.00	3.15	1.48	2.32	1.53	9.53
Standard Deviation				0.00	0.00	1.67	0.79	1.23	0.81	5.06
CV				0.0	0.0	45.64	53.72	230.91	265.72	44.14
Bartlett's X2				0.0	0.0	0.767	2.54	4.729	10.97	5.249
P(Bartlett's X2)				.	.	0.943	0.637	0.193	0.012*	0.263

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		
Crop Code	squash	squash	squash	squash	squash	squash	squash		
Rating Data Type	fruit	cull	cull	fruit	fruit	cull	cull		
Rating Unit	lb/plot	#/plot	wt/plot	#/plot	lb/plot	#/plot	wt/plot		
Rating Date	Sep-24-03	Sep-24-03	Sep-24-03	Sep-26-03	Sep-26-03	Sep-26-03	Sep-26-03		
Trt-Eval Interval	51 DA-A	51 DA-A	51 DA-A	53 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	Rate	Unit	127	128	129	130	131	132	133
1 Wash OFF 0.75 inch Sinbar	3 oz/a		4.2	0.0	0.0	7.3	1.3	0.0	0.0
2 Wash OFF 0.75 inch Matrix NIS	2 oz/a 0.25 % v/v		3.3	1.3	0.5	7.7	1.7	0.0	0.0
3 No wash off Matrix NIS	3 oz/a 0.25 % v/v		1.5	2.7	0.7	2.3	0.5	0.0	0.0
4 No wash off Sinbar	2 oz/a		1.4	1.3	0.2	2.7	0.3	0.0	0.0
5 No herbicide			4.8	0.7	0.2	9.0	1.6	0.0	0.0
LSD (P=.05)			3.03	4.27	1.08	5.64	1.18	0.00	0.00
Standard Deviation			1.61	2.27	0.58	3.00	0.63	0.00	0.00
CV			52.63	188.81	187.89	51.68	58.6	0.0	0.0
Bartlett's X2			4.712	3.973	4.251	0.714	2.946	0.0	0.0
P(Bartlett's X2)			0.318	0.264	0.236	0.95	0.567	.	.

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

University of Georgia

Weed Code	Harv14 squash	Harv14 squash	Harv14 squash	Harv14 squash	Tot1st5p squash	Tot1st5p squash	Tot1st5p squash			
Crop Code	fruit	fruit	cull	cull	fruit	fruit	cull			
Rating Data Type	#/plot	lb/plot	#/plot	wt/plot	#/plot	lb/plot	#/plot			
Rating Unit	Sep-29-03	Sep-29-03	Sep-29-03	Sep-29-03	Jan-15-04	Jan-15-04	Jan-15-04			
Rating Date	56 DA-A	56 DA-A	56 DA-A	56 DA-A						
Trt-Eval Interval					T16	T17	T18			
ARM Action Codes					1	1	1			
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	134	135	136	137	138	139	140
1	Wash OFF 0.75 inch Sinbar	3 oz/a		18.0	4.3	0.0	0.0	29.7	6.7	0.3
2	Wash OFF 0.75 inch Matrix NIS	2 oz/a 0.25 % v/v		16.0	3.9	5.3	1.1	19.3	3.7	0.3
3	No wash off Matrix NIS	3 oz/a 0.25 % v/v		5.3	1.2	0.0	0.0	0.7	0.1	0.3
4	No wash off Sinbar	2 oz/a		4.0	1.0	0.3	0.2	0.0	0.0	0.0
5	No herbicide			14.3	3.7	0.3	0.1	31.0	6.5	0.3
LSD (P=.05)				9.69	2.23	7.03	1.27	9.25	2.65	1.06
Standard Deviation				5.15	1.19	3.73	0.68	4.91	1.41	0.56
CV				44.63	41.75	311.25	230.21	30.45	41.74	211.02
Bartlett's X2				2.344	3.655	13.658	6.499	3.785	10.532	0.0
P(Bartlett's X2)				0.673	0.455	0.001*	0.039*	0.286	0.015*	1.00

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

Column 138: T16 = [82]+[86]+[90]+[94]+[98]

Column 139: T17 = [83]+[87]+[91]+[95]+[99]

Column 140: T18 = [84]+[88]+[92]+[96]+[100]

University of Georgia

Weed Code	Tot1st5p squash cull lb/plot Jan-15-04	Total squash fruit #/plot Jan-15-04	Total squash fruit lb/plot Jan-15-04	Total squash cull #/plot Jan-15-04	Total squash cull lb/plot Jan-15-04	tomato jumbo #/plot Nov-03-03 91 DA-A	tomato jumbo wt lb/plot Nov-03-03 91 DA-A
Crop Code							
Rating Data Type							
Rating Unit							
Rating Date							
Trt-Eval Interval							
ARM Action Codes	T9	T10	T11	T12	T13		
# Subsamples, Dec.	1	1	1	1	1		
Trt No.							
Treatment Name							
Rate							
Unit							
1 Wash OFF 0.75 inch Sinbar	141	142	143	144	145	146	147
Rate	0.2	96.0	31.5	2.0	1.3	24.3	15.7
Unit	3 oz/a						
2 Wash OFF 0.75 inch Matrix NIS	0.1	86.3	28.1	9.7	2.8	34.7	22.7
Rate							
Unit	2 oz/a						
0.25 % v/v							
3 No wash off Matrix NIS	0.1	17.7	5.9	3.7	1.0	25.0	16.2
Rate							
Unit	3 oz/a						
0.25 % v/v							
4 No wash off Sinbar	0.0	15.3	3.9	3.0	1.1	11.7	6.7
Rate							
Unit	2 oz/a						
5 No herbicide	0.1	107.7	34.0	2.7	0.9	34.7	22.2
LSD (P=.05)	0.35	27.11	9.86	12.43	3.30	10.33	6.51
Standard Deviation	0.18	14.40	5.24	6.60	1.75	5.49	3.46
CV	230.49	22.29	25.33	157.12	123.13	21.05	20.7
Bartlett's X2	3.906	5.001	6.016	9.048	4.308	5.444	6.036
P(Bartlett's X2)	0.272	0.287	0.198	0.06	0.366	0.245	0.196

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

Column 141: T9 = [C85]+[C89]+[C93]+[C97]+[C101]

Column 142: T10 = [C82]+[C86]+[C90]+[C94]+[C98]+[C102]+[C106]+[C110]+[C118]+[C122]+[C126]+[C130]+[C134]

Column 143: T11 = [C83]+[C87]+[C91]+[C95]+[C99]+[C103]+[C107]+[C111]+[C115]+[C119]+[C123]+[C127]+[C131]+[C135]

Column 144: T12 = [C84]+[C88]+[C92]+[C96]+[C100]+[C104]+[C108]+[C112]+[C116]+[C120]+[C124]+[C128]+[C132]+[C136]

Column 145: T13 = [C85]+[C89]+[C93]+[C97]+[C101]+[C105]+[C109]+[C113]+[C117]+[C121]+[C125]+[C129]+[C133]+[C137]

University of Georgia

Weed Code		tomato	tomato	tomato	tomato	tomato	tomato	tomato		
Crop Code		large	large wt	medium	medium wt	small	small wt	cull		
Rating Data Type		#/plot	lb/plot	#/plot	lb/plot	#/plot	lb/plot	#/plot		
Rating Unit		Nov-03-03	Nov-03-03	Nov-03-03	Nov-03-03	Nov-03-03	Nov-03-03	Nov-03-03		
Rating Date		91 DA-A	91 DA-A	91 DA-A	91 DA-A	91 DA-A	91 DA-A	91 DA-A		
Trt-Eval Interval										
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	148	149	150	151	152	153	154
1	Wash OFF 0.75 inch Sinbar	3 oz/a		16.7	6.5	17.3	4.9	50.0	6.7	8.0
2	Wash OFF 0.75 inch Matrix NIS	2 oz/a 0.25 % v/v		14.0	5.3	19.0	4.5	41.3	6.1	11.3
3	No wash off Matrix NIS	3 oz/a 0.25 % v/v		19.0	6.8	20.7	5.6	48.7	7.7	14.0
4	No wash off Sinbar	2 oz/a		17.7	6.5	23.3	6.1	35.3	5.2	10.0
5	No herbicide			13.0	4.8	14.3	3.9	37.0	5.4	13.7
LSD (P=.05)				5.47	2.78	10.16	2.33	34.20	3.74	12.48
Standard Deviation				2.91	1.48	5.40	1.24	18.17	1.99	6.63
CV				18.09	24.73	28.5	24.78	42.78	31.87	58.16
Bartlett's X2				5.26	4.71	3.431	2.16	6.224	2.16	0.978
P(Bartlett's X2)				0.262	0.318	0.488	0.706	0.183	0.706	0.913

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
Rating Data Type	cull wt		fruit	fruit
Rating Unit	lb/plot		#/plot	lb/plot
Rating Date	Nov-03-03		Jan-15-04	Jan-15-04
Trt-Eval Interval	91 DA-A			
ARM Action Codes			T14	T15
# Subsamples, Dec.			1	
Trt No.	Treatment Name	Rate		
		Unit		
			155	156
				157
1	Wash OFF 0.75 inch Sinbar	3 oz/a	4.3	108.3
				33.7
2	Wash OFF 0.75 inch Matrix NIS	2 oz/a 0.25 % v/v	6.0	109.0
				38.7
3	No wash off Matrix NIS	3 oz/a 0.25 % v/v	6.5	113.3
				36.3
4	No wash off Sinbar	2 oz/a	3.2	88.0
				24.5
5	No herbicide		6.9	99.0
				36.3
LSD (P=.05)			6.13	35.94
Standard Deviation			3.25	19.09
CV			60.4	18.44
Bartlett's X2			2.151	4.114
P(Bartlett's X2)			0.708	0.391
				0.809

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

Column 156: T14 = [C146]+[C148]+[C150]+[C152]

Column 157: T15 = [C147]+[C149]+[C151]+[C153]

Trial Comments

OBJECTIVE: Evaluate the potential for applying Sinbar and Matrix overtop of plastic prior to transplanting tomato or squash.

VISUAL INJURY:

- When washed from plastic prior to transplanting, injury was less than 8% in tomato with Sinbar or Matrix.
- When not washed off prior to transplanting, tomato injury ranged from 22 to 50% initially with these herbicides.
- Squash injury was severe initially when Matrix or Sinbar were not washed off and when Matrix was even washed off.

HEIGHTS

- Tomato height was reduced only when Sinbar was not washed from plastic.
- Squash height was reduced when either Sinbar or Matrix were not washed from plastic. Sinbar was more injurious.

SQUASH HARVEST (14 harvest dates)

- Individual harvest are included but not discussed.
- Pooling the first five harvest dates noted a trend for less yield with Matrix not washed off and a reduction in fruit with either product when not washed off.
- Less total fruit and weight were produced when either herbicide was not washed from the plastic. When Matrix was washed from the plastic there was even a reduction in the number of fruit harvested.

TOMATO HARVEST (once over)

- Compared to the control, Jumbo yields were reduced when Sinbar was not washed from plastic. A trend was also noted for loss when Matrix was not washed from the plastic and when Sinbar was washed from the plastic.
- Then non-treated and Matrix washed from the plastic plots produced less large fruit compared to other treatments. This was a response of other treatments delaying maturity of the crop.
- Total weight of tomato produced was less when Sinbar was not washed from the plastic when compared to all other treatments.

GENERAL COMMENTS:

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