

University of Georgia

Tomato response to Eptam applied under mulch prior to transplanting.

Trial ID: Veg10-05(eptam)

Study Dir.: Culpepper

Location: Ponder 5161

Investigator: Stanley Culpepper

Weed Code	tomato	tomato	tomato	tomato	tomato	plant 1	plant 2	plant 3			
Crop Code	tomato	tomato	tomato	tomato	tomato	tomato	tomato	tomato			
Rating Data Type	injury	injury	injury	injury	injury	ht	ht	ht			
Rating Unit	percent	percent	percent	percent	percent	cm	cm	cm			
Rating Date	Mar-25-05	Apr-05-05	Apr-20-05	May-16-05	May-23-05	Mar-30-05	Mar-30-05	Mar-30-05			
Trt-Eval Interval	22 DA-A	33 DA-A	48 DA-A	74 DA-A	81 DA-A	27 DA-A	27 DA-A	27 DA-A			
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7	8
1	Eptam	3.5	pt/a	0	0	10	11	9	11	10	10
	Sandea	0.75	oz/a								
2	Eptam	4.5	pt/a	0	0	10	7	4	10	10	11
	Sandea	0.75	oz/a								
3	Eptam	4.5	pt/a	0	0	10	12	6	11	11	10
4	Eptam	3.5	pt/a	0	33	91	100	95	11	11	11
	Eptam	17.5	pt/a								
5	Non-treated			0	0	0	0	0	11	10	11
LSD (P=.05)				0.0	2.0	1.7	4.6	5.4	1.6	1.8	1.7
Standard Deviation				0.0	1.3	1.1	3.0	3.5	1.0	1.2	1.1
CV				0.0	19.86	4.61	11.43	15.47	9.88	11.53	10.53

Means followed by same letter do not significantly differ (P=.05, LSD)

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Weed Code	plant 4	plant 5	plant 6	plant 7	plant 8	plant 9	plant 10	Avg10pla
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	Mar-30-05	Mar-30-05	Mar-30-05	Mar-30-05	Mar-30-05	Mar-30-05	Mar-30-05	Mar-30-05
Trt-Eval Interval	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A
ARM Action Codes								T1
# Subsamples, Dec.								1
Trt Treatment	Rate							
No. Name	Rate Unit	9	10	11	12	13	14	15
1 Eptam	3.5 pt/a	10	10	10	10	12	10	11
Sandea	0.75 oz/a							
2 Eptam	4.5 pt/a	11	11	11	11	11	10	12
Sandea	0.75 oz/a							
3 Eptam	4.5 pt/a	12	11	11	10	12	11	11
4 Eptam	3.5 pt/a	11	12	8	11	11	12	10
Eptam	17.5 pt/a							
5 Non-treated		11	11	10	10	10	12	11
LSD (P=.05)		1.7	1.8	3.5	2.1	1.9	3.4	1.6
Standard Deviation		1.1	1.2	2.3	1.3	1.2	2.2	1.1
CV		10.01	10.83	22.56	12.72	11.04	20.02	9.73
								10.4
								10.7
								11.0
								10.8
								10.5

Means followed by same letter do not significantly differ (P=.05, LSD)

Column 16: T1 = @AVG([C6],[C15])

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Weed Code	plant 1 tomato	plant 2 tomato	plant 3 tomato	plant 4 tomato	plant 5 tomato	plant 6 tomato	plant 7 tomato	plant 8 tomato	plant 9 tomato
Crop Code	ht	ht	ht	ht	ht	ht	ht	ht	ht
Rating Data Type	cm	cm	cm	cm	cm	cm	cm	cm	cm
Rating Unit	Apr-18-05	Apr-18-05	Apr-18-05	Apr-18-05	Apr-18-05	Apr-18-05	Apr-18-05	Apr-18-05	Apr-18-05
Rating Date	46 DA-A	46 DA-A	46 DA-A	46 DA-A	46 DA-A	46 DA-A	46 DA-A	46 DA-A	46 DA-A
Trt-Eval Interval									
ARM Action Codes									
# Subsamples, Dec.									
Trt No.	17	18	19	20	21	22	23	24	25
Treatment Name									
Rate									
Unit									
1 Eptam	28	27	27	27	31	29	28	29	29
Sanda									
2 Eptam	31	31	30	32	31	31	30	31	31
Sanda									
3 Eptam	29	29	29	29	32	30	32	29	28
4 Eptam	13	12	12	14	12	13	13	12	12
Eptam									
5 Non-treated	24	27	29	29	29	31	28	28	29
LSD (P=.05)	5.0	6.0	6.8	4.3	4.2	3.5	6.4	6.0	4.8
Standard Deviation	3.2	3.9	4.4	2.8	2.7	2.2	4.1	3.9	3.1
CV	12.94	15.42	17.53	10.8	10.14	8.37	15.98	15.39	12.02

Means followed by same letter do not significantly differ (P=.05, LSD)

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Weed Code	plant 10	Avg10pla	plant 1	plant 2	plant 3	plant 4	plant 5	plant 6								
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	Apr-18-05	Apr-18-05	May-11-05	May-11-05	May-11-05	May-11-05	May-11-05	May-11-05								
Trt-Eval Interval	46 DA-A	46 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A								
ARM Action Codes		T2														
# Subsamples, Dec.		1														
Trt No.	Treatment Name	Rate	Unit	26	27	28	29	30	31	32	33					
1	Eptam	3.5	pt/a	28	28.2	55	42	51	54	54	52					
	Sandea	0.75	oz/a													
2	Eptam	4.5	pt/a	31	30.8	54	42	52	52	57	53					
	Sandea	0.75	oz/a													
3	Eptam	4.5	pt/a	24	28.9	37	53	41	54	40	59					
4	Eptam	3.5	pt/a	10	12.1	9	0	0	0	0	0					
	Eptam	17.5	pt/a													
5	Non-treated			28	28.2	27	37	52	53	40	51					
LSD (P=.05)		5.4		2.73		32.4		31.2		20.3		7.7		26.7		6.0
Standard Deviation		3.5		1.77		21.0		20.3		13.2		5.0		17.3		3.9
CV		14.62		6.91		57.86		58.69		33.66		11.74		45.45		8.98

Means followed by same letter do not significantly differ (P=.05, LSD)

Column 27: T2 = @AVG([C17].[C26])

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Weed Code		plant 7	plant 8	plant 9	plant 10	Avg10pla		
Crop Code		tomato	tomato	tomato	tomato	tomato		
Rating Data Type		ht	ht	ht	ht	ht		
Rating Unit		cm	cm	cm	cm	cm		
Rating Date		May-11-05	May-11-05	May-11-05	May-11-05	May-11-05		
Trt-Eval Interval		69 DA-A	69 DA-A	69 DA-A	69 DA-A	69 DA-A		
ARM Action Codes						T3		
# Subsamples, Dec.						1		
Trt No.	Treatment Name	Rate	Unit					
				34	35	36	37	38
1	Eptam	3.5	pt/a	49	53	40	53	50.1
	Sandea	0.75	oz/a					
2	Eptam	4.5	pt/a	57	51	52	51	52.0
	Sandea	0.75	oz/a					
3	Eptam	4.5	pt/a	43	42	27	51	44.4
4	Eptam	3.5	pt/a	0	0	0	0	0.9
	Eptam	17.5	pt/a					
5	Non-treated			52	53	26	38	43.0
LSD (P=.05)				20.7	20.0	37.4	19.4	13.73
Standard Deviation				13.4	13.0	24.2	12.6	8.91
CV				33.47	32.7	83.61	32.76	23.41

Means followed by same letter do not significantly differ (P=.05, LSD)

Column 38: T3 = @AVG([C28].[C37])

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

SOIL DESCRIPTION

% Sand: 94 % OM: 1.1 Texture: sand
 % Silt: 2 pH: 6.4 Soil Name: Tifton sandy loam
 % Clay: 4 CEC: 0 Fert. Level: _____

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

No.	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: drip irrigation

Closest Weather Station: _____ Distance: _____ Unit: __

APPLICATION DESCRIPTION

	A
Application Date:	Mar-03-05
Time of Day:	9 am
Application Method:	broadcast
Application Timing:	PRE
Applic. Placement:	un mulch
Air Temp., Unit:	57 F
% Relative Humidity:	45
Wind Velocity, Unit:	2 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	54 F
Soil Moisture:	wet
% Cloud Cover:	100

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	LYPES PRE
Stage Scale:	not plant
Height, Unit:	0 inch

WEED STAGE AT EACH APPLICATION

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

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APPLICATION EQUIPMENT

	A
Appl. Equipment:	superbedd
Operating Pressure:	28
Nozzle Type:	flat fan
Nozzle Size:	11002
Nozzle Spacing, Unit:	18 inch
Nozzles/Row:	5
Band Width, Unit:	
Boom Length, Unit:	5 feet
Boom Height, Unit:	12 inch
Ground Speed, Unit:	3 mph
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	water
Spray Volume, Unit:	23 GPA
Spray pH:	
Propellant:	CO2
Tank Mix (Y/N):	Y

Trt No	Treatment Application Comment