

# University of Georgia

## Watermelon response to Alanap applied overtop of watermelon and mulch.

Trial ID: Veg-26-05(melons)                      Study Dir.:  
 Location: Ponder farm                              Investigator: Stanley Culpepper

Reps: 4                                              Plots: 6 by 30 feet  
 Spray vol: 14.8 gal/ac                      Mix size: 1 liters (min .92602)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code	Amt to Measure	Plot No. By Rep			
									1	2	3	4
1	Non-treated								101	203	305	406
2	Alanap	2	EC	6	qt/a	0	WAT A	101.3 ml/mx	102	204	303	404
3	Alanap	2	EC	6	qt/a	2	WAT B	101.3 ml/mx	103	206	301	401
4	Alanap	2	EC	6	qt/a	4	WAT C	101.3 ml/mx	104	202	304	405
5	Alanap	2	EC	6	qt/a	6	WAT D	101.3 ml/mx	105	201	306	402
6	Non-treated								106	205	302	403

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Lot Code
506.703	ml	Alanap 2 EC	

\* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1 liters (mix size basis).  
 \* Product amount calculations increased 25 % for overage adjustment.

### Trial Comments

OBJECTIVE: Determine if Alanap POST injured melons at any stage of growth.

VISUAL RESPONSE:

1. Injury was usually a measure of leaf cupping.
2. Injury was very minor and short lived.

MELON RUNNER LENGTHS:

1. Measurements were taken on 7 plants per plot at 4 weeks after transplanting.
2. At this time no treatments impacted growth.

YIELD:

1. A once over harvest was preformed and melons were grouped in three categories.
2. Treatments had no impact on the number or weight of melons produced.

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Trial ID: Veg-26-05(melons)

Study Dir.:

Location: Ponder farm

Investigator: Stanley Culpepper

Weed Code	CITLA	CITLA	CITLA	plant 1	plant 2	plant 3	plant 4	plant 5				
Crop Code	injury	injury	injury	CITLA	CITLA	CITLA	CITLA	CITLA				
Rating Data Type	dt	dt	dt	dt	dt	dt	dt	dt				
Rating Unit	percent	percent	percent	cm	cm	cm	cm	cm				
Rating Date	Apr-22-05	May-09-05	May-19-05	May-03-05	May-03-05	May-03-05	May-03-05	May-03-05				
Trt-Eval Interval	28 DA-A	45 DA-A	55 DA-A	39 DA-A	39 DA-A	39 DA-A	39 DA-A	39 DA-A				
ARM Action Codes												
# Subsamples, Dec.												
Trt No.	Treatment Name	Rate	Rate	Unit	1	2	3	4	5	6	7	8
1	Non-treated				0	0	0	15	16	22	17	14
2	Alanap	6 qt/a			8	0	0	15	13	19	15	16
3	Alanap	6 qt/a			8	1	0	15	16	10	19	17
4	Alanap	6 qt/a			0	3	0	13	14	19	19	17
5	Alanap	6 qt/a			0	0	12	19	16	18	14	15
6	Non-treated				0	0	0	16	23	18	21	23
LSD (P=.05)					4.5	3.7	0.0	8.0	10.8	10.4	8.6	7.9
Standard Deviation					3.0	2.5	0.0	5.3	7.2	6.9	5.7	5.3
CV					119.26	347.01	0.0	34.76	44.04	39.84	33.05	31.49

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

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Weed Code	plant 6	plant 7	Avg.7pla					
Crop Code	CITLA	CITLA	CITLA	CITLA	CITLA	CITLA	CITLA	CITLA
Rating Data Type	dt	dt	dt	animaldamag	fruit	fruit	fruit	fruit
Rating Unit	cm	cm	cm	#	<10 lb	<10 lb	<10 lb	<10 lb
Rating Date	May-03-05	May-03-05	May-03-05	Jul-07-05	Jul-07-05	Jul-07-05	Jul-07-05	Jul-07-05
Trt-Eval Interval	39 DA-A	39 DA-A	39 DA-A	104 DA-A	104 DA-A	104 DA-A	104 DA-A	104 DA-A
ARM Action Codes			T1					
# Subsamples, Dec.			1					
Trt Treatment								
No. Name Rate Unit	9	10	11	12	13	14	15	16
1 Non-treated	19	10	17.2	2	5	5	2	0
2 Alanap 6 qt/a	6	2	13.9	1	7	6	0	0
3 Alanap 6 qt/a	20	3	15.8	1	10	5	1	1
4 Alanap 6 qt/a	15	0	16.0	1	6	5	0	0
5 Alanap 6 qt/a	16	0	16.0	1	4	4	2	0
6 Non-treated	24	8	20.6	2	5	6	6	2
LSD (P=.05)	16.1	13.8	5.98	1.7	6.8	6.1	4.1	3.4
Standard Deviation	10.7	9.2	3.97	1.1	4.5	4.0	2.7	2.2
CV	64.06	244.82	23.92	96.89	72.2	82.12	149.26	370.22

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

Column 11: T1 = @AVG([C4].[C9])

# University of Georgia

Weed Code	CITLA	CITLA	Total CITLA	Total CITLA	CITLA	CITLA	CITLA	CITLA	CITLA				
Crop Code	fruit	fruit	#	weight	fruit	fruit	fruit	fruit	fruit				
Rating Data Type	<10 lb	<10 lb	<10 lb	<10 lb	10-20lb	10-20lb	10-20lb	10-20lb	10-20lb				
Rating Unit	104 DA-A	104 DA-A	104 DA-A	104 DA-A	104 DA-A	104 DA-A	104 DA-A	104 DA-A	104 DA-A				
Rating Date	Jul-07-05	Jul-07-05	Jul-07-05	Jul-07-05	Jul-07-05	Jul-07-05	Jul-07-05	Jul-07-05	Jul-07-05				
Trt-Eval Interval	104 DA-A	104 DA-A	104 DA-A	104 DA-A	104 DA-A	104 DA-A	104 DA-A	104 DA-A	104 DA-A				
ARM Action Codes				T2									
# Subsamples, Dec.				1									
Trt No.	Treatment Name	Rate	Rate	Unit	17	18	19	20	21	22	23	24	25
1	Non-treated				0	0	2	12.2	15	8	12	3	5
2	Alanap	6 qt/a			0	0	2	12.5	15	14	11	7	7
3	Alanap	6 qt/a			2	0	2	18.5	16	15	8	8	8
4	Alanap	6 qt/a			0	0	2	11.0	14	16	9	11	11
5	Alanap	6 qt/a			0	0	2	10.0	13	15	14	12	7
6	Non-treated				2	2	3	23.6	14	14	10	3	3
LSD (P=.05)					3.6	2.8	1.8	14.34	3.4	5.2	9.3	11.2	10.3
Standard Deviation					2.4	1.9	1.2	9.52	2.3	3.5	6.2	7.4	6.9
CV					357.93	489.9	62.25	65.14	15.97	25.31	57.62	103.5	101.93

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

Column 20: T2 = [C13]+[C14]+[C15]+[C16]+[C17]+[C18]

## University of Georgia

Weed Code	CITLA	CITLA	CITLA	CITLA	CITLA	CITLA	CITLA	Total	Total	
Crop Code	fruit	fruit	fruit	fruit	fruit	fruit	fruit	CITLA	CITLA	
Rating Data Type	10-20lb	10-20lb	10-20lb	10-20lb	10-20lb	10-20lb	10-20lb	#	weight	
Rating Unit	10-20lb	10-20lb	10-20lb	10-20lb	10-20lb	10-20lb	10-20lb	10-20lb	10-20lb	
Rating Date	Jul-07-05	Jul-07-05	Jul-07-05	Jul-07-05	Jul-07-05	Jul-07-05	Jul-07-05	Jul-07-05	Jul-07-05	
Trt-Eval Interval	104 DA-A	104 DA-A	104 DA-A	104 DA-A	104 DA-A	104 DA-A	104 DA-A	104 DA-A	104 DA-A	
ARM Action Codes									T3	
# Subsamples, Dec.									1	
Trt Treatment	Rate									
No. Name	Rate Unit	26	27	28	29	30	31	32	33	
1 Non-treated		4	3	0	0	0	0	0	4	49.5
2 Alanap	6 qt/a	6	7	4	0	0	0	0	5	70.5
3 Alanap	6 qt/a	4	3	4	3	0	0	0	5	68.7
4 Alanap	6 qt/a	8	6	6	3	0	0	0	6	82.7
5 Alanap	6 qt/a	6	7	4	4	4	4	3	7	89.6
6 Non-treated		3	4	0	0	0	0	0	3	51.0
LSD (P=.05)		7.4	7.4	6.6	6.4	4.4	4.5	3.5	3.3	44.13
Standard Deviation		4.9	4.9	4.4	4.2	2.9	3.0	2.3	2.2	29.29
CV		96.74	99.13	155.14	277.15	489.9	489.9	489.9	45.92	42.65

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

Column 34: T3 = [21]+[22]+[23]+[24]+[25]+[26]+[27]+[28]+[29]+[30]+[31]+[32]

## University of Georgia

Weed Code	CITLA	CITLA	CITLA	Total	Total	ALL	ALL
Crop Code	CITLA	CITLA	CITLA	CITLA	CITLA	CITLA	CITLA
Rating Data Type	fruit	fruit	fruit	number	weight	number	weight
Rating Unit	>20lb	>20lb	>20lb	>20lb	>20lb	all	all
Rating Date	Jul-07-05	Jul-07-05	Jul-07-05	Jul-07-05	Jul-07-05	Jul-07-05	Jul-07-05
Trt-Eval Interval	104 DA-A	104 DA-A	104 DA-A	104 DA-A	104 DA-A	104 DA-A	104 DA-A
ARM Action Codes					T4	T5	T6
# Subsamples, Dec.					1	1	1
Trt Treatment							
No. Name Rate Unit	35	36	37	38	39	40	41
1 Non-treated	5	8	7	1	20.1	5.8	81.7
2 Alanap 6 qt/a	12	0	0	1	12.3	7.0	95.3
3 Alanap 6 qt/a	11	13	0	1	23.9	7.8	111.1
4 Alanap 6 qt/a	12	12	12	2	35.8	9.5	129.5
5 Alanap 6 qt/a	11	7	6	1	23.6	9.0	123.2
6 Non-treated	10	14	0	1	24.7	7.3	99.2
LSD (P=.05)	15.9	13.8	11.9	1.4	35.66	4.88	64.03
Standard Deviation	10.6	9.1	7.9	0.9	23.66	3.24	42.49
CV	102.57	101.3	192.95	98.23	101.18	41.99	39.84

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

Column 39: T4 = [35]+[36]+[37]

Column 40: T5 = [19]+[33]+[38]

Column 41: T6 = [20]+[34]+[39]

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

### SOIL DESCRIPTION

% Sand: 94      % OM: 1.0      Texture: loamy sand  
 % Silt: 2        pH: 6.4        Soil Name: \_\_\_\_\_  
 % Clay: 4        CEC: \_\_\_\_\_ Fert. Level: \_\_\_\_\_

### ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

### MOISTURE CONDITIONS

No.	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: \_\_\_\_\_  
 Closest Weather Station: \_\_\_\_\_ Distance: \_\_\_\_\_ Unit: \_\_\_\_

### APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	Mar-25-05	Apr-11-05	May-03-05	May-17-05
Time of Day:	8 am	8 am	5 pm	4 pm
Application Method:	broadcast	broadcast	broadcast	broadcast
Application Timing:	0WAT	2WAT	4WAT	6WAT
Applic. Placement:	overtop	overtop	overtop	overtop
Air Temp., Unit:	74 F	72 F	82 F	88 F
% Relative Humidity:	60	44	54	37
Wind Velocity, Unit:	2 mph	2 mph	2 mph	4 mph
Dew Presence (Y/N):	y	n	n	n
Water Hardness:				
Soil Temp., Unit:	78 F	79 F	82 F	94 F
Soil Moisture:	drip	drip	drip	drip
% Cloud Cover:	30	0	0	0

### CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	CITLA 0WAT	CITLA 2WAT	CITLA 4WAT	CITLA 6WAT
Stage Scale:	2-3 lf	3-4 lf	7 in runn	23 in run
Height, Unit:	3 inch	5 inch	7 inch	23 inch

### WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code, Stage:	none .	none .	none .	none .
Stage Scale:	weed free	weed free	weed free	weed free
Density, Unit:	0 ydsq	0 ydsq	0 ydsq	0 ydsq



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## APPLICATION EQUIPMENT

	A	B	C	D
<b>Appl. Equipment:</b>	backpack	backpack	backpack	backpack
<b>Operating Pressure:</b>	23	23	23	23
<b>Nozzle Type:</b>	flat fan	flat fan	flat fan	flat fan
<b>Nozzle Size:</b>	11002	11002	11002	11002
<b>Nozzle Spacing, Unit:</b>	18 inch	18 inch	18 inch	18 inch
<b>Nozzles/Row:</b>	2	2	2	2
<b>Band Width, Unit:</b>				
<b>Boom Length, Unit:</b>	4.5 feet	4.5 feet	4.5 feet	4.5 feet
<b>Boom Height, Unit:</b>	15 inch	15 inch	15 inch	15 inch
<b>Ground Speed, Unit:</b>	3 mph	3 mph	3 mph	3 mph
<b>Incorporation Equip.:</b>				
<b>Hours to Incorp.:</b>				
<b>Incorp. Depth, Unit:</b>				
<b>Carrier:</b>	water	water	water	water
<b>Spray Volume, Unit:</b>	14.8 GPA	14.8 GPA	14.8 GPA	14.8 GPA
<b>Spray pH:</b>				
<b>Propellant:</b>	CO2	CO2	CO2	CO2
<b>Tank Mix (Y/N):</b>	Y	Y	Y	Y

Trt No	Treatment Application Comment