

University of Georgia

Nutsedge and cantaloupe response to low rates of MIDAS under VIF mulch.

Trial ID: Veg16-07

Study Dir.: Stanley Culpepper

Location: Ponder Farm

Investigator: Stanley Culpepper

Weed Code	CUMMC	CUMMC	CYPRO	CYPRO	CYPRO	plant 1	plant 2	plant 3	
Crop Code	injury	injury	nutsedge	nutsedge	nutsedge	CUMMC	CUMMC	CUMMC	
Rating Data Type	%	%	#/plot	#/plot	#/plot	height	height	height	
Rating Unit						cm	cm	cm	
Rating Date	Apr-03-07	May-14-07	Mar-28-07	Apr-12-07	Apr-30-07	Apr-12-07	Apr-12-07	Apr-12-07	
Assessed By	SC	SC							
Trt-Eval Interval	36 DA-A	77 DA-A	30 DA-A	45 DA-A	63 DA-A	45 DA-A	45 DA-A	45 DA-A	
ARM Action Codes									
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
		Unit	Unit	Unit	Unit	Unit	Unit	Unit	
		1	2	3	4	5	6	7	
		8							
1	No fumigant	0 a	0 a	302 a	603 b	742 a	11 b	13 a	16 ab
2	MIDAS 50:50 150 LB Blocade VIF	0 a	0 a	13 c	36 d	15 c	16 ab	16 a	15 b
3	MIDAS 50:50 100 LB Blocade VIF	0 a	0 a	114 b	217 c	181 b	19 a	18 a	19 a
4	MIDAS 50:50 50 LB Blocade VIF	0 a	0 a	280 a	782 a	885 a	14 ab	15 a	15 b
5	MB 67:33 150 lb Blocade VIF	0 a	0 a	6 c	15 d	11 c	18 a	17 a	17 ab
	LSD (P=.05)	0.0	0.0	92.8	130.1	154.8	6.4	5.9	3.6
	Standard Deviation	0.0	0.0	49.3	69.1	82.2	3.4	3.1	1.9
	CV	0.0	0.0	34.44	20.91	22.4	21.72	19.73	11.66
	Bartlett's X2	0.0	0.0	10.413	6.381	14.239	2.275	2.654	5.076
	P(Bartlett's X2)	.	.	0.034*	0.172	0.007*	0.685	0.617	0.166

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

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Weed Code	plant 4	plant 5	plant 6	plant 7	plant 8	plant 9	plant 10	AVG10PLA	
Crop Code	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	
Rating Data Type	height	height	height	height	height	height	height	height	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Apr-12-07	Apr-12-07	Apr-12-07	Apr-12-07	Apr-12-07	Apr-12-07	Apr-12-07	Apr-12-07	
Assessed By	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A	
Trt-Eval Interval	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A	
ARM Action Codes								T1	
Trt Treatment	Rate								
No. Name	Rate Unit	9	10	11	12	13	14	15	16
1 No fumigant		15 ab	15 a	16 a	15 b	14 a	15 a	16 a	15 bc
2 MIDAS 50:50 150 LB Blocade VIF		15 ab	17 a	19 a	18 ab	18 a	19 a	17 a	17 ab
3 MIDAS 50:50 100 LB Blocade VIF		19 ab	16 a	21 a	22 a	15 a	16 a	16 a	18 a
4 MIDAS 50:50 50 LB Blocade VIF		11 b	13 a	13 a	15 b	15 a	14 a	17 a	14 c
5 MB 67:33 150 lb Blocade VIF		21 a	19 a	18 a	16 ab	19 a	22 a	22 a	19 a
LSD (P=.05)		8.3	7.7	10.1	6.4	8.4	7.8	6.1	2.8
Standard Deviation		4.4	4.1	5.4	3.4	4.4	4.2	3.2	1.5
CV		26.9	25.61	30.63	19.86	27.34	24.08	18.37	9.06
Bartlett's X2		5.375	5.034	3.681	6.652	3.756	4.436	2.324	5.784
P(Bartlett's X2)		0.251	0.284	0.451	0.155	0.44	0.35	0.676	0.216

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

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

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Weed Code	harv 1	harv 1	harv 2	harv 2	harv 3	harv 3	harv 4	harv 4
Crop Code	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC	CUMMC
Rating Data Type	#	wt/lbs	#	wt/lbs	#	wt/lbs	#	wt/lbs
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot
Rating Date	May-23-07	May-23-07	May-28-07	May-28-07	Jun-01-07	Jun-01-07	Jun-04-07	Jun-04-07
Assessed By	86 DA-A	86 DA-A	91 DA-A	91 DA-A	95 DA-A	95 DA-A	98 DA-A	98 DA-A
Trt-Eval Interval	86 DA-A	86 DA-A	91 DA-A	91 DA-A	95 DA-A	95 DA-A	98 DA-A	98 DA-A
ARM Action Codes								
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate
No. Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate
Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit
1 No fumigant	17	18	19	20	21	22	23	24
1 No fumigant	1 b	1 b	3 b	7 bc	11 a	32 a	16 a	55 b
2 MIDAS 50:50 150 LB Blocade VIF	6 ab	13 ab	9 ab	22 ab	9 ab	32 a	24 a	94 ab
3 MIDAS 50:50 100 LB Blocade VIF	4 ab	8 ab	11 a	26 a	9 ab	32 a	17 a	67 ab
4 MIDAS 50:50 50 LB Blocade VIF	3 ab	4 ab	3 b	6 c	4 b	16 a	13 a	47 b
5 MB 67:33 150 lb Blocade VIF	8 a	17 a	6 ab	13 abc	8 ab	30 a	32 a	129 a
LSD (P=.05)	6.5	13.3	6.4	14.9	4.9	17.8	17.1	69.6
Standard Deviation	3.5	7.1	3.4	7.9	2.6	9.5	9.1	37.0
CV	76.31	81.64	52.02	53.16	32.13	33.32	44.63	47.02
Bartlett's X2	8.173	17.021	0.997	1.256	3.18	3.693	6.984	6.263
P(Bartlett's X2)	0.043*	0.002*	0.91	0.869	0.528	0.449	0.137	0.18

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

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Weed Code	harv 5 CUMMC	harv 5 CUMMC	harv 6 CUMMC	harv 6 CUMMC	harv 7 CUMMC	harv 7 CUMMC	harv 1-3 CUMMC	harv 1-3 CUMMC	
Crop Code									
Rating Data Type	#	wt/lbs	#	wt/lbs	#	wt/lbs	#	wt/lbs	
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot	
Rating Date	Jun-07-07	Jun-07-07	Jun-11-07	Jun-11-07	Jun-14-07	Jun-14-07	Sep-03-07	Sep-03-07	
Assessed By									
Trt-Eval Interval	101 DA-A	101 DA-A	105 DA-A	105 DA-A	108 DA-A	108 DA-A	189 DA-A	189 DA-A	
ARM Action Codes							T2	T3	
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
		Unit	Unit	Unit	Unit	Unit	Unit	Unit	
25			26		27		31		
26				28		29		32	
1	No fumigant	7 ab	28 b	4 a	16 a	7 a	28 ab	15 ab	40 ab
2	MIDAS 50:50 150 LB Blocade VIF	12 a	50 a	7 a	30 a	11 a	45 a	24 a	67 a
3	MIDAS 50:50 100 LB Blocade VIF	6 b	27 b	4 a	17 a	9 a	38 ab	24 a	67 a
4	MIDAS 50:50 50 LB Blocade VIF	6 b	26 b	9 a	35 a	8 a	34 ab	10 b	26 b
5	MB 67:33 150 lb Blocade VIF	8 ab	34 ab	4 a	16 a	5 a	19 b	22 a	60 a
LSD (P=.05)	5.2	20.4	4.5	17.8	5.1	24.3	11.2	27.2	
Standard Deviation	2.8	10.8	2.4	9.5	2.7	12.9	5.9	14.4	
CV	34.98	32.95	42.07	41.3	33.49	39.16	31.02	27.77	
Bartlett's X2	8.825	8.777	7.111	7.921	6.49	8.614	3.152	1.17	
P(Bartlett's X2)	0.066	0.067	0.13	0.095	0.165	0.071	0.533	0.883	

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

Column 31: T2 = ([C17]+[C19]+[C21])

Column 32: T3 = ([C18]+[C20]+[C22])

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Weed Code	harv 1-7	harv 1-7
Crop Code	CUMMC	CUMMC
Rating Data Type	#	wt/lbs
Rating Unit	per plot	per plot
Rating Date	Sep-03-07	Sep-03-07
Assessed By		
Trt-Eval Interval	189 DA-A	189 DA-A
ARM Action Codes	T4	T5
Trt No.	33	34
Treatment Name		
Rate		
Unit		
1 No fumigant	49 c	167 c
2 MIDAS 50:50 150 LB Blocade VIF	78 a	287 a
3 MIDAS 50:50 100 LB Blocade VIF	61 b	216 b
4 MIDAS 50:50 50 LB Blocade VIF	46 c	168 c
5 MB 67:33 150 lb Blocade VIF	72 a	259 ab
LSD (P=.05)	9.8	43.3
Standard Deviation	5.2	23.0
CV	8.49	10.48
Bartlett's X2	2.92	2.715
P(Bartlett's X2)	0.571	0.607

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

Column 33: T4 = ([C17]+[C19]+[C21]+[C23]+[C25]+[C27]+[C29])

Column 34: T5 = ([C18]+[C20]+[C22]+[C24]+[C26]+[C28]+[C30])

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

SOIL DESCRIPTION

% Sand: 94 % OM: 6.4 Texture: Sand
 % Silt: 2 pH: 1.3 Soil Name: Tifton sandy loam
 % 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: drip irrigation

Closest Weather Station: _____ Distance: _____ Unit: __

APPLICATION DESCRIPTION

	A
Application Date:	Feb-26-07
Time of Day:	9 am
Application Method:	band
Application Timing:	preplant
Applic. Placement:	shank inj
Air Temp., Unit:	50 f
% Relative Humidity:	35
Wind Velocity, Unit:	0 MPH
Dew Presence (Y/N):	Y
Water Hardness:	
Soil Temp., Unit:	61 f
Soil Moisture:	moist
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CUMMC preplant
Stage Scale:	not up
Height, Unit:	0 inch

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	CYPRO preplant
Stage Scale:	not up
Density, Unit:	0 inch

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APPLICATION EQUIPMENT

	A
Appl. Equipment:	see
Operating Pressure:	comment
Nozzle Type:	section
Nozzle Size:	
Nozzle Spacing, Unit:	
Nozzles/Row:	
Band Width, Unit:	
Boom Length, Unit:	
Boom Height, Unit:	
Ground Speed, Unit:	
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	
Spray Volume, Unit:	
Spray pH:	
Propellant:	
Tank Mix (Y/N):	

Trt No	Treatment Application Comment