

University of Georgia

Pepper response to MIDAS plus Dual Magnum

Trial ID: Veg27-08
Location: Ponder farm

Study Dir.: Culpepper, Davis
Investigator: Stanley Culpepper

Reps: 3 Plots: 6 by 20 feet
Spray vol: 25 gal/ac Mix size: 3 liters (min .78211)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Grow Unit	Stg	Appl Code	Amt to Measure	Product	Plot No. By Rep		
											1	2	3
1	Non-treated MIDAS 98:2 @ 100 lb/A										101	205	306
2	Dual Magnum MIDAS 98:2 @ 100 lb/A	7.64		L	12	OZ/A	UN	Mulch	A	11.25 ml/mx	102	201	305
3	Dual Magnum MIDAS 98:2 @ 100 lb/A	7.64		L	24	OZ/A	UN	Mulch	A	22.5 ml/mx	103	206	303
4	Dual Magnum MIDAS 98:2 @ 100 lb/A	7.64		L	36	OZ/A	UN	Mulch	A	33.75 ml/mx	104	202	301
5	Dual Magnum Command MIDAS 98:2 @ 100 lb/A	7.64		L	12	OZ/A	UN	Mulch	A	11.25 ml/mx	105	204	302
		3		L	2	PT/A	UN	Mulch	A	30.0 ml/mx			
6	Dual Magnum Command MIDAS 98:2 @ 100 lb/A	7.64		L	24	OZ/A	UN	Mulch	A	22.5 ml/mx	106	203	304
		3		L	2	PT/A	UN	Mulch	A	30.0 ml/mx			

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
126.563	ml	Dual Magnum	7.64	L	
74.992	ml	Command	3	L	

* 'Per area' calculations based on spray volume= 25 gal/ac, mix size= 3 liters (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

Trial Comments

OBJECTIVE: Determine pepper response to Dual Magnum and MIDAS weed control systems.

Visual Injury:

1. Pepper stunting was less than 4% with Dual Magnum at a recommended use rates of no more than 12 oz/A.
2. Dual Magnum applied at 2 and 3 times the normal use rate caused up to 10 and 15% injury throughout the season, respectively.
3. The addition of Command with Dual Magnum did not impact visual injury.
4. Little to no injury was noted with any treatment just prior to harvest.

Purple Nutsedge Control:

1. Relative to a non-treated control on the adjacent row, MIDAS provided 82% control during mid-season.
2. Neither Dual nor Command control purple nutsedge, thus the addition of the herbicide did not improve control relative to MIDAS applied alone.

Pepper Heights:

1. Plant heights averaged over 20 plants per plot.
2. At 42 or 56 d after fumigation and 21 or 35 days after transplant, pepper heights were not statistically impacted by herbicide program. There was a trend for shorter plants when Dual Magnum was applied at 24 or 36 oz/A.

Pepper Harvest (Jumbo fruit only):

1. Harvest 1: Compared to MIDAS alone, less pepper fruit were harvested when Dual was applied at 36 oz/A (27% less fruit) or when Dual at 24 oz/A plus Command (30% less fruit) was applied.
2. Harvest 2, 3, and 4: No statistical differences were noted.

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3. Averaged over harvest 1 and 2 or harvest 1 through 4, no differences in yield were noted.

Conclusions:

1. Pepper is tolerant to Dual Magnum when applied at recommended use rates. This is approximately the 20th study evaluating pepper tolerance to Dual Magnum in Georgia over the past six years. Each study shows similar results. Cool wet conditions can enhance injury but if recommended rates are applied pepper injury is still minimal and non-significant. Additionally, Dual Magnum has been used on at least 20% of the pepper grown in Georgia for the past two years.

GENERAL COMMENTS:

1 MIDAS was applied, beds were formed, herbicides applied and mulch was laid within minutes of one another. MIDAS was applied with a super bedder plastic layer injected 8 inches deep with 3 knives on a 32 inch bedtop. The herbicide was applied on top of the final bed at 24 GPA.

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Weed Code	CPSAN	CPSAN	CPSAN	CYPRO CYPES	plant 1 CPSAN left	plant 2 CPSAN left	plant 3 CPSAN left	
Part Rated					ht	ht	ht	
Rating Data Type	injury	injury	injury	control	cm	cm	cm	
Rating Unit	percent	percent	percent	percent				
Rating Date	Aug-30-08	Sep-24-08	Oct-09-08	Aug-30-08	Aug-28-08	Aug-28-08	Aug-28-08	
Trt-Eval Interval	44 DA-A	69 DA-A	84 DA-A	44 DA-A	42 DA-A	42 DA-A	42 DA-A	
ARM Action Codes								
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	
		Unit	Unit	Unit	Unit	Unit	Unit	
		1	2	3	4	5	6	
		7						
1	Non-treated MIDAS 98:2 @ 100 lb/A	0 c	0 b	0 a	82 a	20 bc	19 a	22 ab
2	Dual Magnum MIDAS 98:2 @ 100 lb/A	12 OZ/A 2 bc	0 b	0 a	87 a	20 bc	23 a	26 a
3	Dual Magnum MIDAS 98:2 @ 100 lb/A	24 OZ/A 5 b	10 a	0 a	82 a	21 bc	20 a	21 ab
4	Dual Magnum MIDAS 98:2 @ 100 lb/A	36 OZ/A 10 a	15 a	2 a	87 a	21 ab	22 a	19 b
5	Dual Magnum Command MIDAS 98:2 @ 100 lb/A	12 OZ/A 2 PT/A 4 bc	3 b	0 a	82 a	23 a	22 a	20 b
6	Dual Magnum Command MIDAS 98:2 @ 100 lb/A	24 OZ/A 2 PT/A 5 b	10 a	1 a	85 a	19 c	17 a	20 ab
LSD (P=.05)		4.5	5.2	2.9	10.1	2.4	5.9	5.0
Standard Deviation		2.5	2.8	1.6	5.5	1.3	3.2	2.8
CV		58.28	44.42	316.23	6.6	6.45	15.76	12.88
Bartlett's X2		0.669	0.04	0.095	2.466	3.569	7.496	1.388
P(Bartlett's X2)		0.716	0.842	0.758	0.782	0.613	0.186	0.926

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

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Weed Code	plant 4 CPSAN	plant 5 CPSAN	plant 6 CPSAN	plant 7 CPSAN	plant 8 CPSAN	plant 9 CPSAN	plant 10 CPSAN	
Crop Code	left	left	left	left	left	left	left	
Part Rated	ht	ht	ht	ht	ht	ht	ht	
Rating Data Type	cm	cm	cm	cm	cm	cm	cm	
Rating Unit	Aug-28-08	Aug-28-08	Aug-28-08	Aug-28-08	Aug-28-08	Aug-28-08	Aug-28-08	
Rating Date	42 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A	
Trt-Eval Interval	ARM Action Codes							
Trt Treatment	Rate							
No. Name	Rate Unit	8	9	10	11	12	13	14
1 Non-treated MIDAS 98:2 @ 100 lb/A		23 a	20 ab	22 a	21 a	22 a	23 a	21 a
2 Dual Magnum MIDAS 98:2 @ 100 lb/A	12 OZ/A	22 a	19 ab	19 a	20 a	23 a	20 a	21 a
3 Dual Magnum MIDAS 98:2 @ 100 lb/A	24 OZ/A	22 a	23 a	20 a	20 a	22 a	19 a	21 a
4 Dual Magnum MIDAS 98:2 @ 100 lb/A	36 OZ/A	20 a	20 ab	19 a	21 a	19 a	20 a	19 ab
5 Dual Magnum Command MIDAS 98:2 @ 100 lb/A	12 OZ/A 2 PT/A	22 a	16 b	20 a	21 a	19 a	20 a	18 ab
6 Dual Magnum Command MIDAS 98:2 @ 100 lb/A	24 OZ/A 2 PT/A	21 a	20 ab	20 a	20 a	18 a	18 a	15 b
LSD (P=.05)		3.5	4.7	4.8	3.0	4.4	4.7	3.8
Standard Deviation		1.9	2.6	2.6	1.6	2.4	2.6	2.1
CV		8.8	13.23	13.18	8.08	11.8	12.89	10.81
Bartlett's X2		2.457	2.833	0.93	5.32	3.41	10.359	4.736
P(Bartlett's X2)		0.783	0.726	0.968	0.256	0.637	0.066	0.449

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

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Weed Code	plant av	plant 1	plant 2	plant 3	plant 4	plant 5	plant 6	
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	
Part Rated	left	right	right	right	right	right	right	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Aug-28-08	Aug-28-08	Aug-28-08	Aug-28-08	Aug-28-08	Aug-28-08	Aug-28-08	
Trt-Eval Interval	42 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A	
ARM Action Codes	T1							
Trt Treatment	Rate							
No. Name	Rate Unit	15	16	17	18	19	20	21
1 Non-treated MIDAS 98:2 @ 100 lb/A		21 a	22 a	19 a	23 a	26 a	22 a	21 a
2 Dual Magnum MIDAS 98:2 @ 100 lb/A	12 OZ/A	21 a	21 a	23 a	24 a	20 ab	22 a	21 a
3 Dual Magnum MIDAS 98:2 @ 100 lb/A	24 OZ/A	21 ab	23 a	21 a	22 a	19 ab	24 a	12 a
4 Dual Magnum MIDAS 98:2 @ 100 lb/A	36 OZ/A	20 ab	22 a	26 a	21 a	13 b	19 a	20 a
5 Dual Magnum Command MIDAS 98:2 @ 100 lb/A	12 OZ/A 2 PT/A	20 ab	23 a	23 a	22 a	24 a	22 a	21 a
6 Dual Magnum Command MIDAS 98:2 @ 100 lb/A	24 OZ/A 2 PT/A	19 b	21 a	22 a	23 a	21 ab	22 a	21 a
LSD (P=.05)		2.1	7.5	6.7	4.6	10.1	5.0	10.0
Standard Deviation		1.1	4.1	3.7	2.5	5.5	2.8	5.5
CV		5.62	18.84	16.67	11.3	27.03	12.81	28.59
Bartlett's X2		6.977	1.414	11.962	6.799	10.155	4.405	6.112
P(Bartlett's X2)		0.222	0.702	0.035*	0.236	0.071	0.493	0.296

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

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

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Weed Code	plant 7 CPSAN	plant 8 CPSAN	plant 9 CPSAN	plant 10 CPSAN	plant av CPSAN	AVG20PLA CPSAN	plant 1 CPSAN
Crop Code							
Part Rated	right	right	right	right	right		left
Rating Data Type	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm
Rating Date	Aug-28-08	Aug-28-08	Aug-28-08	Aug-28-08	Aug-28-08	Aug-28-08	Sep-11-08
Trt-Eval Interval	42 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A	56 DA-A
ARM Action Codes					T2	T9	
Trt Treatment							
No. Name							
Rate							
Rate Unit							
	22	23	24	25	26	27	28
1 Non-treated MIDAS 98:2 @ 100 lb/A	25 a	23 a	24 a	23 a	23 a	22 a	28 a
2 Dual Magnum MIDAS 98:2 @ 100 lb/A	23 a	22 a	22 a	22 a	22 ab	22 ab	31 a
3 Dual Magnum MIDAS 98:2 @ 100 lb/A	23 a	23 a	15 a	21 a	20 b	21 ab	25 a
4 Dual Magnum MIDAS 98:2 @ 100 lb/A	20 a	21 a	19 a	22 a	20 ab	20 b	27 a
5 Dual Magnum Command MIDAS 98:2 @ 100 lb/A	21 a	20 a	21 a	24 a	22 ab	21 ab	29 a
6 Dual Magnum Command MIDAS 98:2 @ 100 lb/A	22 a	21 a	20 a	21 a	21 ab	20 b	23 a
LSD (P=.05)	5.7	5.8	13.2	5.0	2.1	1.5	7.1
Standard Deviation	3.2	3.2	7.3	2.8	1.2	0.8	3.9
CV	14.16	14.49	35.77	12.4	5.47	3.93	14.38
Bartlett's X2	2.291	4.931	10.28	1.493	2.507	3.311	3.249
P(Bartlett's X2)	0.808	0.424	0.068	0.914	0.775	0.652	0.662

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

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

Column 27: T9 = ([C15]+[C26])/2

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Weed Code		plant 2	plant 3	plant 4	plant 5	plant 6	plant 7	plant 8
Crop Code		CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated		left	left	left	left	left	left	left
Rating Data Type		ht	ht	ht	ht	ht	ht	ht
Rating Unit		cm	cm	cm	cm	cm	cm	cm
Rating Date		Sep-11-08	Sep-11-08	Sep-11-08	Sep-11-08	Sep-11-08	Sep-11-08	Sep-11-08
Trt-Eval Interval		56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A
ARM Action Codes								
Trt Treatment	Rate							
No. Name	Rate Unit	29	30	31	32	33	34	35
1 Non-treated MIDAS 98:2 @ 100 lb/A		29 a	29 a	24 a	31 a	28 a	30 a	28 a
2 Dual Magnum MIDAS 98:2 @ 100 lb/A	12 OZ/A	29 a	30 a	28 a	27 ab	26 a	27 ab	29 a
3 Dual Magnum MIDAS 98:2 @ 100 lb/A	24 OZ/A	28 a	27 a	27 a	27 ab	26 a	29 a	25 a
4 Dual Magnum MIDAS 98:2 @ 100 lb/A	36 OZ/A	23 a	26 a	26 a	26 ab	27 a	24 bc	26 a
5 Dual Magnum Command MIDAS 98:2 @ 100 lb/A	12 OZ/A 2 PT/A	27 a	28 a	28 a	24 b	26 a	28 ab	27 a
6 Dual Magnum Command MIDAS 98:2 @ 100 lb/A	24 OZ/A 2 PT/A	26 a	26 a	27 a	26 ab	26 a	23 c	24 a
LSD (P=.05)		7.2	5.8	4.5	6.8	4.8	4.5	5.1
Standard Deviation		4.0	3.2	2.5	3.8	2.6	2.4	2.8
CV		14.58	11.45	9.42	13.98	9.97	9.19	10.6
Bartlett's X2		8.406	8.628	9.475	2.994	10.196	9.467	6.769
P(Bartlett's X2)		0.135	0.125	0.092	0.701	0.07	0.092	0.238

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

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Weed Code		plant 9	plant 10	plant av	plant 1	plant 2	plant 3	plant 4
Crop Code		CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated		left	left	left	right	right	right	right
Rating Data Type		ht	ht	ht	ht	ht	ht	ht
Rating Unit		cm	cm	cm	cm	cm	cm	cm
Rating Date		Sep-11-08	Sep-11-08	Sep-11-08	Sep-11-08	Sep-11-08	Sep-11-08	Sep-11-08
Trt-Eval Interval		56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A
ARM Action Codes				T3				
Trt Treatment	Rate							
No. Name	Rate Unit	36	37	38	39	40	41	42
1 Non-treated MIDAS 98:2 @ 100 lb/A		25 a	26 a	28 ab	25 b	31 a	31 a	29 a
2 Dual Magnum MIDAS 98:2 @ 100 lb/A	12 OZ/A	28 a	28 a	28 a	31 ab	33 a	28 a	27 a
3 Dual Magnum MIDAS 98:2 @ 100 lb/A	24 OZ/A	24 ab	25 a	26 ab	27 ab	30 a	27 a	27 a
4 Dual Magnum MIDAS 98:2 @ 100 lb/A	36 OZ/A	24 ab	26 a	26 ab	31 ab	27 a	18 a	25 a
5 Dual Magnum Command MIDAS 98:2 @ 100 lb/A	12 OZ/A 2 PT/A	26 a	26 a	27 ab	32 a	29 a	29 a	28 a
6 Dual Magnum Command MIDAS 98:2 @ 100 lb/A	24 OZ/A 2 PT/A	19 b	25 a	25 b	30 ab	30 a	25 a	28 a
LSD (P=.05)		5.6	3.4	3.3	6.1	6.3	13.1	4.7
Standard Deviation		3.1	1.9	1.8	3.4	3.4	7.2	2.6
CV		12.51	7.16	6.8	11.36	11.54	27.34	9.52
Bartlett's X2		7.382	1.164	17.144	7.133	8.322	8.097	4.205
P(Bartlett's X2)		0.194	0.948	0.004*	0.211	0.139	0.151	0.52

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

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

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Weed Code		plant 5	plant 6	plant 7	plant 8	plant 9	plant 10	plant av
Crop Code		CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated		right	right	right	right	right	right	right
Rating Data Type		ht	ht	ht	ht	ht	ht	ht
Rating Unit		cm	cm	cm	cm	cm	cm	cm
Rating Date		Sep-11-08	Sep-11-08	Sep-11-08	Sep-11-08	Sep-11-08	Sep-11-08	Sep-11-08
Trt-Eval Interval		56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A
ARM Action Codes								T4
Trt Treatment	Rate							
No. Name	Rate Unit	43	44	45	46	47	48	49
1 Non-treated MIDAS 98:2 @ 100 lb/A		28 a	29 a	32 a	31 a	30 a	26 a	29 a
2 Dual Magnum MIDAS 98:2 @ 100 lb/A	12 OZ/A	29 a	30 a	30 ab	29 a	29 a	26 a	29 a
3 Dual Magnum MIDAS 98:2 @ 100 lb/A	24 OZ/A	32 a	21 a	26 ab	21 a	30 a	29 a	27 a
4 Dual Magnum MIDAS 98:2 @ 100 lb/A	36 OZ/A	28 a	28 a	25 b	27 a	29 a	28 a	27 a
5 Dual Magnum Command MIDAS 98:2 @ 100 lb/A	12 OZ/A 2 PT/A	28 a	28 a	28 ab	30 a	33 a	25 a	29 a
6 Dual Magnum Command MIDAS 98:2 @ 100 lb/A	24 OZ/A 2 PT/A	27 a	28 a	30 ab	26 a	29 a	30 a	28 a
LSD (P=.05)		7.9	14.1	6.2	15.4	7.4	9.7	4.0
Standard Deviation		4.4	7.8	3.4	8.5	4.1	5.3	2.2
CV		15.22	28.39	11.92	31.02	13.52	19.38	7.73
Bartlett's X2		10.952	17.101	1.724	13.209	5.04	1.476	14.619
P(Bartlett's X2)		0.052	0.004*	0.886	0.021*	0.411	0.916	0.012*

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

Column 49: T4 = @AVG([C39],[C48])

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Weed Code	AVG20PLA	harv 1	harv 1	harv 2	harv 2	harv 3	harv 3	harv 4	
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	
Part Rated									
Rating Data Type	ht	# fruit	wt/lb	# fruit	wt/lb	# fruit	wt/lb	# fruit	
Rating Unit	cm	per plot	per plot	per plot	per plot	per plot	per plot	per plot	
Rating Date	Sep-11-08	Oct-13-08	Oct-13-08	Oct-21-08	Oct-21-08	Oct-27-08	Oct-27-08	Nov-12-08	
Trt-Eval Interval	56 DA-A	88 DA-A	88 DA-A	88 DA-A	88 DA-A	88 DA-A	88 DA-A	88 DA-A	
ARM Action Codes	T10								
Trt Treatment	Rate								
No. Name	Rate Unit	50	51	52	53	54	55	56	
1 Non-treated MIDAS 98:2 @ 100 lb/A		29 a	65 a	30 a	29 a	12 a	35 a	13 a	11 a
2 Dual Magnum MIDAS 98:2 @ 100 lb/A	12 OZ/A	29 a	65 a	28 ab	33 a	14 a	27 a	10 a	8 ab
3 Dual Magnum MIDAS 98:2 @ 100 lb/A	24 OZ/A	27 a	56 abc	25 abc	42 a	16 a	25 a	9 a	5 b
4 Dual Magnum MIDAS 98:2 @ 100 lb/A	36 OZ/A	26 a	48 bc	23 bc	25 a	10 a	41 a	15 a	8 ab
5 Dual Magnum Command MIDAS 98:2 @ 100 lb/A	12 OZ/A 2 PT/A	28 a	57 ab	27 ab	27 a	11 a	35 a	15 a	8 ab
6 Dual Magnum Command MIDAS 98:2 @ 100 lb/A	24 OZ/A 2 PT/A	26 a	46 c	20 c	35 a	13 a	46 a	17 a	9 ab
LSD (P=.05)		2.7	10.3	5.3	25.3	8.4	21.8	9.3	3.6
Standard Deviation		1.5	5.7	2.9	13.9	4.6	12.0	5.1	2.0
CV		5.4	10.09	11.39	43.44	36.84	34.41	38.65	25.0
Bartlett's X2		10.245	6.51	5.619	4.97	5.972	8.853	5.489	5.84
P(Bartlett's X2)		0.069	0.26	0.345	0.42	0.309	0.115	0.359	0.322

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

Column 50: T10 = ([C38]+[C49])/2

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Weed Code	harv 4 CPSAN	harv1-2 CPSAN	harv1-2 CPSAN	harv1-4 CPSAN	harv1-4 CPSAN	
Crop Code						
Part Rated						
Rating Data Type	wt/lb	# fruit	wt/lb	# fruit	wt/lb	
Rating Unit	per plot	per plot	per plot	per plot	per plot	
Rating Date	Nov-12-08					
Trt-Eval Interval	88 DA-A	118 DA-A	118 DA-A			
ARM Action Codes		T5	T6	T7	T8	
Trt Treatment	Rate					
No. Name	Rate Unit	58	59	60	61	62
1 Non-treated MIDAS 98:2 @ 100 lb/A		5 a	95 a	41 a	140 a	59 a
2 Dual Magnum MIDAS 98:2 @ 100 lb/A	12 OZ/A	4 a	98 a	42 a	132 a	56 a
3 Dual Magnum MIDAS 98:2 @ 100 lb/A	24 OZ/A	3 a	98 a	41 a	128 a	53 a
4 Dual Magnum MIDAS 98:2 @ 100 lb/A	36 OZ/A	4 a	73 a	33 a	122 a	52 a
5 Dual Magnum Command MIDAS 98:2 @ 100 lb/A	12 OZ/A 2 PT/A	4 a	85 a	39 a	128 a	58 a
6 Dual Magnum Command MIDAS 98:2 @ 100 lb/A	24 OZ/A 2 PT/A	5 a	81 a	33 a	136 a	55 a
LSD (P=.05)		2.0	30.8	11.8	26.0	11.6
Standard Deviation		1.1	16.9	6.5	14.3	6.4
CV		26.55	19.19	17.03	10.9	11.53
Bartlett's X2		5.955	4.409	6.685	7.132	9.423
P(Bartlett's X2)		0.311	0.492	0.245	0.211	0.093

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

Column 59: T5 = ([C51]+[C53])

Column 60: T6 = ([C52]+[C54])

Column 61: T7 = ([C59]+[C55]+[C57])

Column 62: T8 = ([C60]+[C56]+[C58])

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Pepper response to MIDAS plus Dual Magnum

Trial ID: Veg27-08 Study Dir.: Culpepper, Davis
Location: Ponder farm Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

Study Director: Culpepper, Davis **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:** good
Postal Code: 31795 **Initiation Date:** Jul-17-08
Country: USA **Planned Completion Date:** _____
E-Longitude of LL Corner °: _____ **N-Latitude of LL Corner °:** _____
Altitude of LL Corner: _____ **Unit:** _____ **Angle y-axis to North °:** _____
Directions:

COOPERATOR/LANDOWNER

Cooperator: _____ **Country:** _____
Org: _____ **Phone No:** _____
Address 1: _____ **Fax No:** _____
Address 2: _____
City: _____
State/Prov: _____
Postal Code: _____

Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N
Guidelines: _____ **Guideline Description:** _____

Objective:

Conclusions:

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	CYPRO	purple nutsedge	

Crop 1: CPSAN PEPPER **Variety:** Heritiage
Planting Date: Aug-08-08 **Planting Method:** transplant
Rate: 1 12 inch **Depth:** 1.5 in **Perennial Age:** _____
Row Spacing: 6 feet **Spacing Within Row:** 12 inch **Seed Bed:** mulched
Soil Temperature: 91 f **Soil Moisture:** good **Emergence Date:** _____

SITE AND DESIGN

Plot Width, Unit: 6 FT **Plot Length, Unit:** 20 FT **Reps:** 3
Site Type: Ponder Farm
Tillage Type: Conventional **Study Design:** RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

MAINTENANCE

Field Prep./Maintenance:

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

SOIL DESCRIPTION

% Sand: 88 % OM: 0.9 Texture: Tifton sandy loam
 % Silt: 10 pH: 6.4 Soil Name: _____
 % Clay: 2 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:	Jul-17-08
Time of Day:	3:00pm
Application Method:	un mulch
Application Timing:	see
Applic. Placement:	comments
Air Temp., Unit:	93 f
% Relative Humidity:	45
Wind Velocity, Unit:	5 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	96 F
Soil Moisture:	moist
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CPSAN A
Stage Scale:	preplant
Height, Unit:	0 inch

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	CYPRO A
Stage Scale:	preplant
Density, Unit:	5 ydsq

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APPLICATION EQUIPMENT

	A
Appl. Equipment:	see
Operating Pressure:	comments
Nozzle Type:	
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