

# University of Georgia

## Nutsedge and pepper response to DMDS mixtures.

Trial ID: Veg3-05  
Location: Ponder 5141

Study Dir.: Culpepper  
Investigator: Stanley Culpepper

Reps: 4                      Plots: 3 by 20 feet  
Spray vol: 14.8 gal/ac      Mix size: 1 liters (min .30867)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Form Unit	Rate Stg	Grow	Appl Code	Amt to Measure	Product	Plot No. By Rep			
											1	2	3	4
1	Non-treated Plant Date 1										101	207	301	435
2	DMDS 200 LB bc Plant Date 1										103	235	309	401
3	DMDS 400 LB bc Plant Date 1										105	219	331	423
4	DMDS 600 LB bc Plant Date 1										107	225	319	413
5	PIC 100 LB bc Plant Date 1										109	205	321	403
6	PIC 200 LB bc Plant Date 1										111	203	323	415
7	Vapam 75 G bc 6ft Plant Date 1										113	211	305	419
8	Bromide 67:33 400 lb bc Plant Date 1										115	233	335	405
9	DMDS 50:50 400 lb bc Plant Date 1										117	221	311	427
10	DMDS 67:33 300 lb bc Plant Date 1										119	215	329	409
11	DMDS 67:33 600 lb bc Plant Date 1										121	213	317	411
12	DMDS 75:25 800 lb bc Plant Date 1										123	227	313	407
13	DMDS 87:13 700 lb bc Plant Date 1										125	223	315	433
14	V 75 G fb DMDS 87:13 500 Plant Date 1										127	209	327	425
15	Vapam 75 G fb DMDS 200 lb Plant Date 1										129	231	307	421
16	Vapam 75 G fb DMDS 400 lb Plant Date 1										131	201	333	429
17	Vapam 75 G fb DMDS 600 lb Plant Date 1										133	217	325	417
18	Vapam 75 G fb DMDS 50:50 fb DMDS 50:50 400 lb/A Plant Date 1										135	229	303	431
19	Non-treated Plant Date 2										102	208	302	436
20	DMDS 200 LB bc Plant Date 2										104	236	310	402
21	DMDS 400 LB bc Plant Date 2										106	220	332	424
22	DMDS 600 LB bc Plant Date 2										108	226	320	414
23	PIC 100 LB bc Plant Date 2										110	206	322	404
24	PIC 200 LB bc Plant Date 2										112	204	324	416

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Reps: 4                      Plots: 3 by 20 feet  
 Spray vol: 14.8 gal/ac      Mix size: 1 liters (min .30867)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	Amt to Measure	Plot No. By Rep			
									1	2	3	4
25	Vapam 75 G bc 6ft Plant Date 2						B		114	212	306	420
26	Bromide 67:33 400 lb bc Plant Date 2						B		116	234	336	406
27	DMDS 50:50 400 lb bc Plant Date 2						B		118	222	312	428
28	DMDS 67:33 300 lb bc Plant Date 2						B		120	216	330	410
29	DMDS 67:33 600 lb bc Plant Date 2						B		122	214	318	412
30	DMDS 75:25 800 lb bc Plant Date 2						B		124	228	314	408
31	DMDS 87:13 700 lb bc Plant Date 2						B		126	224	316	434
32	V 75 G fb DMDS 87:13 500 Plant Date 2						B		128	210	328	426
33	Vapam 75 G fb DMDS 200 lb Plant Date 2						B		130	232	308	422
34	Vapam 75 G fb DMDS 400 lb Plant Date 2						B		132	202	334	430
35	Vapam 75 G fb DMDS 600 lb Plant Date 2						B		134	218	326	418
36	Vapam 75 G fb DMDS 50:50 at 400 lb Plant Date 2						B		136	230	304	432

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Lot Code
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\* '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: Evaluate possible DMDS systems as an alternative to methyl bromide for the control of nutsedge species.

**Pepper Response.**

1. The night after the first plant date nighttime temperatures fell to 31 degrees causing some natural plant loss.
2. Estimates of visual pepper stunting takes into account pepper biomass production but does not account for crop death. By 27 days after planting, higher rates of Pic and Vapam stunted the pepper crop; however, no stunting was noted with DMDS applied alone. Similar results were even noted with the second planting although less overall crop stunting was noted.
3. "Pepper replants" were a measure of actual crop death. The crop planted at plant date 1 was hurt from both the cold weather with 10 plants per plot being killed in the non-treated control but injury was also severe from Vapam treatments. Crop loss when waiting till March 11 to plant alleviated much crop loss.
4. Measuring heights (20 plants per plot) noted that fumigants did not impact crop height.

**Visual Nutsedge Response:**

1. At 15 days after fumigating, DMDS at 200 lb/A and Pic at 100 lb/A were far less effective than methyl bromide (MB).
2. At 35 days after fumigating, DMDS alone, Pic alone, and DMDS (67:33) at 300 lbs were less effective than MB.
3. At 55 days after fumigating, treatments as effective as MB included Vapam treatments, DMDS 67:33 at 600 lb/A, DMDS 75:25 at 800 lb/A, and DMDS 87:13 at 700 lb/A.

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4. At 105 days after fumigating, treatments as effective as MB included all Vapam fb DMDS treatments, DMDS 67:33 at 600 lb/A, DMDS 75:25 at 800 lb/A, and DMDS 87:13 at 700 lb/A.

Nutsedge penetrating the mulch (the entire plot area was counted):

1. Nutsedge counts were very similar to that noted with visual nutsedge control with slightly more variability.

Other Weeds:

1. All other weeds were removed from the second plant date plots in the entire test area except for nutsedge. However, in the first plant date plots all weeds were allowed to grow to be counted by seasons end as nutsedge is only one pest that we must learn how to control.
2. All fumigant treatments provided similar control of cutleaf eveningprimrose when compared to MB.
3. Pigweed control was less with all DMDS or Pic treatments when applied alone and compared to MB.
4. Trends in control broadleaf signalgrass were similar to those noted with pigweed.

Pepper Yields (Pepper was harvested from the entire 20 foot plot area):

1. As always, yield was variable.
2. For the first harvest of fancy fruit, the number of fruit harvested were similar to MB from all treatments except with the non-treated, DMDS alone, and the Vapam + DMDS treatments. Lower fruit numbers in the non-treated and DMDS alone treatments were likely due to nutsedge competition; however, less fruit produced with the Vapam + DMDS systems appeared to be in response to a slight delay in maturity, yield recovered and was high in harvest 2 and 3.
3. For the first harvest of fancy fruit, the weight of fruit harvested followed trends noted with the number of fruit harvested except for chloropicrin alone at 100 lb/A produced less weight than MB.
4. When totaling the first three harvest of fancy fruit, the number and weight of fruit produced were similar to MB with all treatments except DMDS alone and the non-treated control.

GENERAL COMMENTS:

1. Plant date 1 = Feb. 25 (10 DAA); Plant date 2 = March 11 (26 DAA)
2. DMDS, MB, and chloropicrin applied with standard methyl bromide rig injecting fumigants 6 to 8 inches deep with 3 knives on a 36 inch bedtop.
3. Vapam broadcast applied with 4.5 inch spacing between shanks.

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## Nutsedge and pepper response to DMDS mixtures.

Trial ID: Veg3-05  
 Location: Ponder 5141

Study Dir.: Culpepper  
 Investigator: Stanley Culpepper

Weed Code	pepper stunting percent	pepper stunting percent	pepper stunting percent	number pepper replanted #/plot	CYPRO control percent	CYPRO control percent	CYPRO control percent
Crop Code	Mar-01-05	Mar-21-05	Apr-22-05	May-03-05	Mar-01-05	Mar-21-05	Apr-10-05
Rating Data Type	14 DA-A	34 DA-A	66 DA-A	77 DA-A	14 DA-A	34 DA-A	54 DA-A
Rating Unit							
Rating Date							
Trt-Eval Interval							
ARM Action Codes							
# Subsamples, Dec.							
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate
		Unit	Unit	Unit	Unit	Unit	Unit
1	Non-treated Plant Date 1				10	0	0
2	DMDS 200 LB bc Plant Date 1				10	31	29
3	DMDS 400 LB bc Plant Date 1				11	95	46
4	DMDS 600 LB bc Plant Date 1				11	100	62
5	PIC 100 LB bc Plant Date 1				8	79	54
6	PIC 200 LB bc Plant Date 1				11	95	86
7	Vapam 75 G bc 6ft Plant Date 1				21	100	99
8	Bromide 67:33 400 lb bc Plant Date 1				9	100	99
9	DMDS 50:50 400 lb bc Plant Date 1				11	100	86
10	DMDS 67:33 300 lb bc Plant Date 1				6	94	72
11	DMDS 67:33 600 lb bc Plant Date 1				14	100	97
12	DMDS 75:25 800 lb bc Plant Date 1				13	100	97
13	DMDS 87:13 700 lb bc Plant Date 1				10	100	93
14	V 75 G fb DMDS 87:13 500 Plant Date 1				29	100	99
15	Vapam 75 G fb DMDS 200 lb Plant Date 1				12	100	99
16	Vapam 75 G fb DMDS 400 lb Plant Date 1				23	100	99
17	Vapam 75 G fb DMDS 600 lb Plant Date 1				25	100	99
18	Vapam 75 G fb DMDS 50:50 fb DMDS 50:50 400 lb/A Plant Date 1				31	100	99
19	Non-treated Plant Date 2				0	0	0
20	DMDS 200 LB bc Plant Date 2				0	31	25
21	DMDS 400 LB bc Plant Date 2				0	95	47

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Weed Code	pepper stunting percent	pepper stunting percent	pepper stunting percent	number pepper replanted #/plot	CYPRO control percent	CYPRO control percent	CYPRO control percent
Crop Code							
Rating Data Type							
Rating Unit							
Rating Date	Mar-01-05	Mar-21-05	Apr-22-05	May-03-05	Mar-01-05	Mar-21-05	Apr-10-05
Trt-Eval Interval	14 DA-A	34 DA-A	66 DA-A	77 DA-A	14 DA-A	34 DA-A	54 DA-A
ARM Action Codes							
# Subsamples, Dec.							
Trt Treatment							
No. Name							
Rate							
Rate Unit							
	1	2	3	4	5	6	7
22 DMDS 600 LB bc Plant Date 2		0	1	1	100	89	64
23 PIC 100 LB bc Plant Date 2		0	3	1	81	76	56
24 PIC 200 LB bc Plant Date 2		0	1	0	95	92	88
25 Vapam 75 G bc 6ft Plant Date 2		5	3	2	100	99	98
26 Bromide 67:33 400 lb bc Plant Date 2		1	0	1	100	100	99
27 DMDS 50:50 400 lb bc Plant Date 2		1	6	0	100	93	85
28 DMDS 67:33 300 lb bc Plant Date 2		0	4	2	94	90	72
29 DMDS 67:33 600 lb bc Plant Date 2		0	8	1	100	100	97
30 DMDS 75:25 800 lb bc Plant Date 2		0	11	2	100	100	97
31 DMDS 87:13 700 lb bc Plant Date 2		0	11	0	100	99	93
32 V 75 G fb DMDS 87:13 500 Plant Date 2		1	18	1	100	100	99
33 Vapam 75 G fb DMDS 200 lb Plant Date 2		0	3	6	100	100	99
34 Vapam 75 G fb DMDS 400 lb Plant Date 2		0	14	0	100	100	99
35 Vapam 75 G fb DMDS 600 lb Plant Date 2		5	6	1	100	100	99
36 Vapam 75 G fb DMDS 50:50 at 400 lb Plant Date 2		7	9	3	100	100	99
LSD (P=.05)	4.2	7.3	15.2	5.7	7.4	7.8	8.2
Standard Deviation	2.9	5.2	10.8	4.1	5.3	5.5	5.8
CV	400.15	82.66	137.44	51.6	5.93	6.47	7.43

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

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Weed Code	CYPRO	OEOLA	AMAPA	BRAPP	CYPRO	CYPRO	CYPRO	
Crop Code					emerged	emerged	emerged	
Rating Data Type	control	control	control	control	mulch	mulch	mulch	
Rating Unit	percent	percent	percent	percent	#	#	#	
Rating Date	May-23-05	May-23-05	May-23-05	May-23-05	Mar-24-05	Apr-15-05	May-03-05	
Trt-Eval Interval	97 DA-A	97 DA-A	97 DA-A	97 DA-A	37 DA-A	59 DA-A	77 DA-A	
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	8	9	10	11	12	13	14
1 Non-treated Plant Date 1	0	4	4	5	48	60	41	
2 DMDS 200 LB bc Plant Date 1	23	4	4	5	80	99	68	
3 DMDS 400 LB bc Plant Date 1	32	5	3	3	33	69	69	
4 DMDS 600 LB bc Plant Date 1	65	5	3	6	14	37	43	
5 PIC 100 LB bc Plant Date 1	70	2	3	2	31	42	43	
6 PIC 200 LB bc Plant Date 1	85	4	4	2	7	12	15	
7 Vapam 75 G bc 6ft Plant Date 1	81	2	1	0	7	4	8	
8 Bromide 67:33 400 lb bc Plant Date 1	95	0	0	1	0	0	1	
9 DMDS 50:50 400 lb bc Plant Date 1	88	1	1	2	4	12	16	
10 DMDS 67:33 300 lb bc Plant Date 1	75	2	1	0	19	30	39	
11 DMDS 67:33 600 lb bc Plant Date 1	91	1	2	1	0	2	3	
12 DMDS 75:25 800 lb bc Plant Date 1	91	3	2	2	1	2	2	
13 DMDS 87:13 700 lb bc Plant Date 1	91	4	0	5	3	9	10	
14 V 75 G fb DMDS 87:13 500 Plant Date 1	92	1	1	0	0	0	1	
15 Vapam 75 G fb DMDS 200 lb Plant Date 1	93	1	2	1	0	0	1	
16 Vapam 75 G fb DMDS 400 lb Plant Date 1	94	0	1	0	0	1	2	
17 Vapam 75 G fb DMDS 600 lb Plant Date 1	93	1	0	1	0	0	1	
18 Vapam 75 G fb DMDS 50:50 fb DMDS 50:50 400 lb/A Plant Date 1	97	0	1	0	0	0	0	
19 Non-treated Plant Date 2	0				57	58	40	
20 DMDS 200 LB bc Plant Date 2	19				84	107	85	
21 DMDS 400 LB bc Plant Date 2	43				39	65	61	
22 DMDS 600 LB bc Plant Date 2	65				12	32	34	
23 PIC 100 LB bc Plant Date 2	70				31	36	34	

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Weed Code	CYPRO	OEOLA	AMAPA	BRAPP	CYPRO	CYPRO	CYPRO	
Crop Code					emerged	emerged	emerged	
Rating Data Type	control	control	control	control	mulch	mulch	mulch	
Rating Unit	percent	percent	percent	percent	#	#	#	
Rating Date	May-23-05	May-23-05	May-23-05	May-23-05	Mar-24-05	Apr-15-05	May-03-05	
Trt-Eval Interval	97 DA-A	97 DA-A	97 DA-A	97 DA-A	37 DA-A	59 DA-A	77 DA-A	
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	8	9	10	11	12	13	14
24 PIC 200 LB bc Plant Date 2	86					8	15	16
25 Vapam 75 G bc 6ft Plant Date 2	81					0	7	15
26 Bromide 67:33 400 lb bc Plant Date 2	95					0	0	1
27 DMDS 50:50 400 lb bc Plant Date 2	88					7	13	15
28 DMDS 67:33 300 lb bc Plant Date 2	75					13	26	26
29 DMDS 67:33 600 lb bc Plant Date 2	90					0	2	4
30 DMDS 75:25 800 lb bc Plant Date 2	91					3	5	5
31 DMDS 87:13 700 lb bc Plant Date 2	91					2	8	7
32 V 75 G fb DMDS 87:13 500 Plant Date 2	92					0	1	2
33 Vapam 75 G fb DMDS 200 lb Plant Date 2	94					1	3	8
34 Vapam 75 G fb DMDS 400 lb Plant Date 2	93					0	0	3
35 Vapam 75 G fb DMDS 600 lb Plant Date 2	93					0	0	1
36 Vapam 75 G fb DMDS 50:50 at 400 lb Plant Date 2	97					0	0	0
LSD (P=.05)	9.1	3.9	2.9	3.3	27.6	33.3	24.6	
Standard Deviation	6.5	2.8	2.1	2.4	19.7	23.8	17.6	
CV	8.63	129.7	122.86	122.52	141.78	113.37	88.78	

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

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Weed Code	CYPRO	plant 1	plant 2	plant 3	plant 4	plant 5	plant 6	
Crop Code	emerged	pepper	pepper	pepper	pepper	pepper	pepper	
Rating Data Type	mulch	ht	ht	ht	ht	ht	ht	
Rating Unit	#	cm	cm	cm	cm	cm	cm	
Rating Date	May-25-05	Mar-24-05	Mar-24-05	Mar-24-05	Mar-24-05	Mar-24-05	Mar-24-05	
Trt-Eval Interval	99 DA-A	37 DA-A	37 DA-A	37 DA-A	37 DA-A	37 DA-A	37 DA-A	
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	15	16	17	18	19	20	21
1 Non-treated Plant Date 1	64	12	11	11	12	11	11	
2 DMDS 200 LB bc Plant Date 1	96	12	11	11	11	11	10	
3 DMDS 400 LB bc Plant Date 1	72	10	12	10	11	10	11	
4 DMDS 600 LB bc Plant Date 1	35	8	10	10	10	11	11	
5 PIC 100 LB bc Plant Date 1	42	10	13	10	11	11	11	
6 PIC 200 LB bc Plant Date 1	15	9	10	11	11	10	11	
7 Vapam 75 G bc 6ft Plant Date 1	18	9	10	11	12	11	11	
8 Bromide 67:33 400 lb bc Plant Date 1	8	10	10	11	11	12	11	
9 DMDS 50:50 400 lb bc Plant Date 1	15	11	11	10	10	11	9	
10 DMDS 67:33 300 lb bc Plant Date 1	54	12	12	12	12	11	11	
11 DMDS 67:33 600 lb bc Plant Date 1	8	9	11	9	12	10	11	
12 DMDS 75:25 800 lb bc Plant Date 1	5	10	11	12	11	12	12	
13 DMDS 87:13 700 lb bc Plant Date 1	11	11	10	11	10	11	11	
14 V 75 G fb DMDS 87:13 500 Plant Date 1	5	12	11	10	12	12	12	
15 Vapam 75 G fb DMDS 200 lb Plant Date 1	8	12	11	11	11	10	12	
16 Vapam 75 G fb DMDS 400 lb Plant Date 1	11	11	12	11	8	11	11	
17 Vapam 75 G fb DMDS 600 lb Plant Date 1	4	11	11	11	11	11	12	
18 Vapam 75 G fb DMDS 50:50 fb DMDS 50:50 400 lb/A Plant Date 1	7	11	12	13	12	11	13	
19 Non-treated Plant Date 2	84	13	12	13	11	12	12	
20 DMDS 200 LB bc Plant Date 2	114	12	11	9	12	10	12	
21 DMDS 400 LB bc Plant Date 2	99	12	11	11	12	11	11	
22 DMDS 600 LB bc Plant Date 2	57	11	11	11	12	11	12	
23 PIC 100 LB bc Plant Date 2	37	11	12	11	11	11	10	



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Weed Code	CYPRO	plant 1	plant 2	plant 3	plant 4	plant 5	plant 6	
Crop Code	emerged	pepper	pepper	pepper	pepper	pepper	pepper	
Rating Data Type	mulch	ht	ht	ht	ht	ht	ht	
Rating Unit	#	cm	cm	cm	cm	cm	cm	
Rating Date	May-25-05	Mar-24-05	Mar-24-05	Mar-24-05	Mar-24-05	Mar-24-05	Mar-24-05	
Trt-Eval Interval	99 DA-A	37 DA-A	37 DA-A	37 DA-A	37 DA-A	37 DA-A	37 DA-A	
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	15	16	17	18	19	20	21
24 PIC 200 LB bc Plant Date 2	22	12	10	10	11	11	11	
25 Vapam 75 G bc 6ft Plant Date 2	30	12	11	13	12	11	11	
26 Bromide 67:33 400 lb bc Plant Date 2	11	12	11	11	11	10	11	
27 DMDS 50:50 400 lb bc Plant Date 2	18	12	12	12	12	13	12	
28 DMDS 67:33 300 lb bc Plant Date 2	35	12	10	10	11	10	11	
29 DMDS 67:33 600 lb bc Plant Date 2	12	12	11	11	13	11	11	
30 DMDS 75:25 800 lb bc Plant Date 2	9	11	11	11	11	11	12	
31 DMDS 87:13 700 lb bc Plant Date 2	10	11	11	11	11	10	10	
32 V 75 G fb DMDS 87:13 500 Plant Date 2	11	12	12	12	11	11	11	
33 Vapam 75 G fb DMDS 200 lb Plant Date 2	21	12	12	11	10	12	12	
34 Vapam 75 G fb DMDS 400 lb Plant Date 2	20	10	11	11	10	11	11	
35 Vapam 75 G fb DMDS 600 lb Plant Date 2	11	11	12	13	12	12	11	
36 Vapam 75 G fb DMDS 50:50 at 400 lb Plant Date 2	3	11	11	12	10	10	11	
LSD (P=.05)	49.0	2.6	2.1	2.5	2.5	2.3	2.6	
Standard Deviation	35.0	1.9	1.5	1.8	1.8	1.6	1.9	
CV	117.01	17.1	13.85	16.39	16.07	14.85	16.99	

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

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Weed Code	plant 7 pepper	plant 8 pepper	plant 9 pepper	plant 10 pepper	plant 11 pepper	plant 12 pepper	plant 13 pepper
Crop Code							
Rating Data Type	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm
Rating Date	Mar-24-05	Mar-24-05	Mar-24-05	Mar-24-05	Mar-24-05	Mar-24-05	Mar-24-05
Trt-Eval Interval	37 DA-A	37 DA-A	37 DA-A	37 DA-A	37 DA-A	37 DA-A	37 DA-A
ARM Action Codes							
# Subsamples, Dec.							
Trt Treatment							
No. Name							
Rate							
Rate Unit							
	22	23	24	25	26	27	28
1 Non-treated Plant Date 1	11	11	13	11	12	10	10
2 DMDS 200 LB bc Plant Date 1	10	10	10	13	10	10	10
3 DMDS 400 LB bc Plant Date 1	9	11	11	11	12	11	11
4 DMDS 600 LB bc Plant Date 1	9	12	11	10	11	11	11
5 PIC 100 LB bc Plant Date 1	11	11	10	12	10	11	10
6 PIC 200 LB bc Plant Date 1	11	11	11	11	10	10	11
7 Vapam 75 G bc 6ft Plant Date 1	11	11	12	13	12	12	12
8 Bromide 67:33 400 lb bc Plant Date 1	11	12	10	10	10	10	11
9 DMDS 50:50 400 lb bc Plant Date 1	11	10	10	11	12	12	11
10 DMDS 67:33 300 lb bc Plant Date 1	13	11	10	10	10	10	11
11 DMDS 67:33 600 lb bc Plant Date 1	12	8	10	10	12	11	11
12 DMDS 75:25 800 lb bc Plant Date 1	11	12	12	10	12	11	11
13 DMDS 87:13 700 lb bc Plant Date 1	11	12	12	11	8	10	10
14 V 75 G fb DMDS 87:13 500 Plant Date 1	12	11	12	11	12	12	10
15 Vapam 75 G fb DMDS 200 lb Plant Date 1	12	10	11	10	10	10	10
16 Vapam 75 G fb DMDS 400 lb Plant Date 1	12	11	11	11	12	13	11
17 Vapam 75 G fb DMDS 600 lb Plant Date 1	11	10	12	9	11	10	10
18 Vapam 75 G fb DMDS 50:50 fb DMDS 50:50 400 lb/A Plant Date 1	12	11	12	12	10	11	12
19 Non-treated Plant Date 2	12	13	12	12	10	12	11
20 DMDS 200 LB bc Plant Date 2	12	12	12	11	11	12	11
21 DMDS 400 LB bc Plant Date 2	12	12	11	11	10	10	11
22 DMDS 600 LB bc Plant Date 2	11	12	12	12	12	12	13
23 PIC 100 LB bc Plant Date 2	10	10	11	11	13	11	12

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Weed Code	plant 7 pepper	plant 8 pepper	plant 9 pepper	plant 10 pepper	plant 11 pepper	plant 12 pepper	plant 13 pepper
Crop Code							
Rating Data Type	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm
Rating Date	Mar-24-05	Mar-24-05	Mar-24-05	Mar-24-05	Mar-24-05	Mar-24-05	Mar-24-05
Trt-Eval Interval	37 DA-A	37 DA-A	37 DA-A	37 DA-A	37 DA-A	37 DA-A	37 DA-A
ARM Action Codes							
# Subsamples, Dec.							
Trt Treatment							
No. Name							
Rate							
Rate Unit							
22	23	24	25	26	27	28	
24 PIC 200 LB bc Plant Date 2	11	12	11	12	11	12	12
25 Vapam 75 G bc 6ft Plant Date 2	12	11	12	11	11	11	10
26 Bromide 67:33 400 lb bc Plant Date 2	11	11	12	11	12	12	12
27 DMDS 50:50 400 lb bc Plant Date 2	12	11	12	12	12	12	12
28 DMDS 67:33 300 lb bc Plant Date 2	11	12	11	12	12	12	12
29 DMDS 67:33 600 lb bc Plant Date 2	11	12	12	12	11	12	10
30 DMDS 75:25 800 lb bc Plant Date 2	12	11	11	11	12	12	11
31 DMDS 87:13 700 lb bc Plant Date 2	11	10	11	11	11	12	12
32 V 75 G fb DMDS 87:13 500 Plant Date 2	11	12	12	12	11	11	10
33 Vapam 75 G fb DMDS 200 lb Plant Date 2	12	13	13	14	10	12	11
34 Vapam 75 G fb DMDS 400 lb Plant Date 2	10	11	11	10	11	11	11
35 Vapam 75 G fb DMDS 600 lb Plant Date 2	12	12	13	12	11	11	12
36 Vapam 75 G fb DMDS 50:50 at 400 lb Plant Date 2	12	12	10	10	11	10	10
LSD (P=.05)	2.5	2.5	1.9	2.5	2.1	1.9	2.1
Standard Deviation	1.8	1.8	1.4	1.8	1.5	1.4	1.5
CV	16.24	15.85	12.36	16.24	13.56	12.56	13.92

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

# University of Georgia

Weed Code	plant 14	plant 15	plant 16	plant 17	plant 18	plant 19	plant 20	
Crop Code	pepper	pepper	pepper	pepper	pepper	pepper	pepper	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Mar-24-05	Mar-24-05	Mar-24-05	Mar-24-05	Mar-24-05	Mar-24-05	Mar-24-05	
Trt-Eval Interval	37 DA-A	37 DA-A	37 DA-A	37 DA-A	37 DA-A	37 DA-A	37 DA-A	
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	29	30	31	32	33	34	35
1 Non-treated Plant Date 1		10	11	10	11	11	11	10
2 DMDS 200 LB bc Plant Date 1		10	9	11	11	10	9	10
3 DMDS 400 LB bc Plant Date 1		11	11	11	11	11	9	9
4 DMDS 600 LB bc Plant Date 1		10	12	11	11	12	11	11
5 PIC 100 LB bc Plant Date 1		11	11	9	11	11	11	10
6 PIC 200 LB bc Plant Date 1		12	11	11	10	11	10	11
7 Vapam 75 G bc 6ft Plant Date 1		9	11	12	12	11	11	12
8 Bromide 67:33 400 lb bc Plant Date 1		11	11	11	11	10	11	10
9 DMDS 50:50 400 lb bc Plant Date 1		10	12	11	11	11	10	11
10 DMDS 67:33 300 lb bc Plant Date 1		10	10	11	10	10	10	10
11 DMDS 67:33 600 lb bc Plant Date 1		11	11	11	9	12	11	10
12 DMDS 75:25 800 lb bc Plant Date 1		10	10	9	10	11	10	11
13 DMDS 87:13 700 lb bc Plant Date 1		10	10	11	11	11	10	11
14 V 75 G fb DMDS 87:13 500 Plant Date 1		11	12	12	12	11	12	13
15 Vapam 75 G fb DMDS 200 lb Plant Date 1		11	9	11	10	11	12	11
16 Vapam 75 G fb DMDS 400 lb Plant Date 1		13	11	10	12	12	11	12
17 Vapam 75 G fb DMDS 600 lb Plant Date 1		12	10	10	11	12	10	12
18 Vapam 75 G fb DMDS 50:50 fb DMDS 50:50 400 lb/A Plant Date 1		11	10	12	12	12	11	11
19 Non-treated Plant Date 2		11	11	11	12	12	11	12
20 DMDS 200 LB bc Plant Date 2		11	11	11	11	11	11	10
21 DMDS 400 LB bc Plant Date 2		11	12	12	11	12	11	12
22 DMDS 600 LB bc Plant Date 2		11	12	11	12	12	11	12
23 PIC 100 LB bc Plant Date 2		12	12	11	11	11	12	13

# University of Georgia

Weed Code	plant 14 pepper	plant 15 pepper	plant 16 pepper	plant 17 pepper	plant 18 pepper	plant 19 pepper	plant 20 pepper
Crop Code							
Rating Data Type	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm
Rating Date	Mar-24-05	Mar-24-05	Mar-24-05	Mar-24-05	Mar-24-05	Mar-24-05	Mar-24-05
Trt-Eval Interval	37 DA-A	37 DA-A	37 DA-A	37 DA-A	37 DA-A	37 DA-A	37 DA-A
ARM Action Codes							
# Subsamples, Dec.							
Trt Treatment							
No. Name							
Rate							
Rate Unit							
	29	30	31	32	33	34	35
24 PIC 200 LB bc Plant Date 2	12	13	12	11	12	12	10
25 Vapam 75 G bc 6ft Plant Date 2	11	12	12	13	11	11	11
26 Bromide 67:33 400 lb bc Plant Date 2	9	12	12	12	11	12	12
27 DMDS 50:50 400 lb bc Plant Date 2	10	10	11	11	11	11	12
28 DMDS 67:33 300 lb bc Plant Date 2	12	12	11	12	13	12	12
29 DMDS 67:33 600 lb bc Plant Date 2	11	12	12	11	11	10	11
30 DMDS 75:25 800 lb bc Plant Date 2	12	12	11	12	11	11	12
31 DMDS 87:13 700 lb bc Plant Date 2	11	11	12	12	12	12	11
32 V 75 G fb DMDS 87:13 500 Plant Date 2	11	11	11	11	12	9	11
33 Vapam 75 G fb DMDS 200 lb Plant Date 2	11	11	11	10	11	10	12
34 Vapam 75 G fb DMDS 400 lb Plant Date 2	10	12	12	12	11	12	11
35 Vapam 75 G fb DMDS 600 lb Plant Date 2	12	11	11	12	11	12	11
36 Vapam 75 G fb DMDS 50:50 at 400 lb Plant Date 2	11	11	11	11	11	10	11
LSD (P=.05)	2.4	2.2	2.5	2.1	2.2	2.1	1.9
Standard Deviation	1.7	1.5	1.8	1.5	1.6	1.5	1.3
CV	15.74	14.05	16.05	13.51	14.22	13.87	12.22

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

# University of Georgia

Weed Code	Avght	plant 1	plant 2	plant 3	plant 4	plant 5	plant 6	
Crop Code	20plants	pepper	pepper	pepper	pepper	pepper	pepper	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Mar-24-05	May-09-05	May-09-05	May-09-05	May-09-05	May-09-05	May-09-05	
Trt-Eval Interval	37 DA-A	83 DA-A	83 DA-A	83 DA-A	83 DA-A	83 DA-A	83 DA-A	
ARM Action Codes	T1							
# Subsamples, Dec.	1							
Trt Treatment	Rate							
No. Name	Rate Unit	36	37	38	39	40	41	42
1 Non-treated Plant Date 1	10.9	22	20	23	23	20	22	
2 DMDS 200 LB bc Plant Date 1	10.3	20	20	19	22	22	21	
3 DMDS 400 LB bc Plant Date 1	10.5	22	19	22	23	22	23	
4 DMDS 600 LB bc Plant Date 1	10.5	24	24	24	25	23	21	
5 PIC 100 LB bc Plant Date 1	10.6	23	23	25	24	23	24	
6 PIC 200 LB bc Plant Date 1	10.4	22	22	23	22	22	25	
7 Vapam 75 G bc 6ft Plant Date 1	11.2	21	22	24	23	19	21	
8 Bromide 67:33 400 lb bc Plant Date 1	10.6	25	22	27	20	24	24	
9 DMDS 50:50 400 lb bc Plant Date 1	10.6	19	22	23	21	19	19	
10 DMDS 67:33 300 lb bc Plant Date 1	10.7	23	23	22	23	23	23	
11 DMDS 67:33 600 lb bc Plant Date 1	10.6	24	20	21	22	22	19	
12 DMDS 75:25 800 lb bc Plant Date 1	10.8	23	24	23	21	21	18	
13 DMDS 87:13 700 lb bc Plant Date 1	10.6	22	22	23	23	21	19	
14 V 75 G fb DMDS 87:13 500 Plant Date 1	11.5	21	19	18	20	20	21	
15 Vapam 75 G fb DMDS 200 lb Plant Date 1	10.7	23	23	20	18	20	21	
16 Vapam 75 G fb DMDS 400 lb Plant Date 1	11.2	21	21	22	22	20	20	
17 Vapam 75 G fb DMDS 600 lb Plant Date 1	10.8	23	22	22	20	21	18	
18 Vapam 75 G fb DMDS 50:50 fb DMDS 50:50 400 lb/A Plant Date 1	11.6	21	20	19	19	20	19	
19 Non-treated Plant Date 2	11.5	21	23	23	22	21	23	
20 DMDS 200 LB bc Plant Date 2	11.0	19	20	21	22	20	22	
21 DMDS 400 LB bc Plant Date 2	11.2	25	22	22	21	24	22	
22 DMDS 600 LB bc Plant Date 2	11.6	22	22	23	23	23	23	
23 PIC 100 LB bc Plant Date 2	11.3	23	23	24	23	24	22	

## University of Georgia

Weed Code	Avght	plant 1	plant 2	plant 3	plant 4	plant 5	plant 6	
Crop Code	20plants	pepper	pepper	pepper	pepper	pepper	pepper	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Mar-24-05	May-09-05	May-09-05	May-09-05	May-09-05	May-09-05	May-09-05	
Trt-Eval Interval	37 DA-A	83 DA-A	83 DA-A	83 DA-A	83 DA-A	83 DA-A	83 DA-A	
ARM Action Codes	T1							
# Subsamples, Dec.	1							
Trt Treatment	Rate							
No. Name	Rate Unit	36	37	38	39	40	41	42
24 PIC 200 LB bc Plant Date 2	11.4	22	22	22	23	22	23	
25 Vapam 75 G bc 6ft Plant Date 2	11.3	23	21	21	23	23	23	
26 Bromide 67:33 400 lb bc Plant Date 2	11.2	23	23	23	23	24	25	
27 DMDS 50:50 400 lb bc Plant Date 2	11.6	21	24	22	19	21	22	
28 DMDS 67:33 300 lb bc Plant Date 2	11.4	21	19	22	22	23	21	
29 DMDS 67:33 600 lb bc Plant Date 2	11.2	21	22	23	22	22	21	
30 DMDS 75:25 800 lb bc Plant Date 2	11.3	20	20	19	22	22	21	
31 DMDS 87:13 700 lb bc Plant Date 2	11.0	21	23	22	21	21	22	
32 V 75 G fb DMDS 87:13 500 Plant Date 2	11.1	23	22	22	21	20	20	
33 Vapam 75 G fb DMDS 200 lb Plant Date 2	11.4	23	22	22	23	21	22	
34 Vapam 75 G fb DMDS 400 lb Plant Date 2	11.0	22	20	22	21	24	22	
35 Vapam 75 G fb DMDS 600 lb Plant Date 2	11.6	23	21	23	21	22	22	
36 Vapam 75 G fb DMDS 50:50 at 400 lb Plant Date 2	10.7	19	20	21	20	20	21	
LSD (P=.05)	0.78	3.8	3.8	4.1	3.5	3.8	3.7	
Standard Deviation	0.56	2.7	2.7	2.9	2.5	2.7	2.6	
CV	5.06	12.5	12.63	13.29	11.63	12.61	12.18	

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

Column 36: T1 = @AVG([C16].[C35])

# University of Georgia

Weed Code	plant 7 pepper ht	plant 8 pepper ht	plant 9 pepper ht	plant 10 pepper ht	plant 11 pepper ht	plant 12 pepper ht	plant 13 pepper ht
Crop Code							
Rating Data Type	cm	cm	cm	cm	cm	cm	cm
Rating Unit	cm	cm	cm	cm	cm	cm	cm
Rating Date	May-09-05	May-09-05	May-09-05	May-09-05	May-09-05	May-09-05	May-09-05
Trt-Eval Interval	83 DA-A	83 DA-A	83 DA-A	83 DA-A	83 DA-A	83 DA-A	83 DA-A
ARM Action Codes							
# Subsamples, Dec.							
Trt Treatment							
No. Name							
Rate	43	44	45	46	47	48	49
Rate Unit							
1 Non-treated Plant Date 1	21	23	21	21	21	23	23
2 DMDS 200 LB bc Plant Date 1	21	21	22	21	21	22	21
3 DMDS 400 LB bc Plant Date 1	24	23	23	23	21	24	24
4 DMDS 600 LB bc Plant Date 1	21	21	24	22	23	24	23
5 PIC 100 LB bc Plant Date 1	23	23	23	22	24	22	23
6 PIC 200 LB bc Plant Date 1	19	24	23	22	22	22	23
7 Vapam 75 G bc 6ft Plant Date 1	22	23	22	20	21	24	25
8 Bromide 67:33 400 lb bc Plant Date 1	25	22	28	18	21	22	22
9 DMDS 50:50 400 lb bc Plant Date 1	23	23	21	22	20	21	21
10 DMDS 67:33 300 lb bc Plant Date 1	22	23	20	26	23	23	23
11 DMDS 67:33 600 lb bc Plant Date 1	23	21	22	22	22	19	18
12 DMDS 75:25 800 lb bc Plant Date 1	20	20	21	19	24	23	21
13 DMDS 87:13 700 lb bc Plant Date 1	18	21	22	22	22	21	23
14 V 75 G fb DMDS 87:13 500 Plant Date 1	21	23	22	19	22	20	20
15 Vapam 75 G fb DMDS 200 lb Plant Date 1	21	18	17	18	21	21	21
16 Vapam 75 G fb DMDS 400 lb Plant Date 1	21	21	22	22	23	22	20
17 Vapam 75 G fb DMDS 600 lb Plant Date 1	22	21	22	20	22	20	21
18 Vapam 75 G fb DMDS 50:50 fb DMDS 50:50 400 lb/A Plant Date 1	20	18	19	20	19	19	19
19 Non-treated Plant Date 2	21	23	22	22	24	23	23
20 DMDS 200 LB bc Plant Date 2	21	23	21	22	22	22	22
21 DMDS 400 LB bc Plant Date 2	24	23	22	22	27	23	25
22 DMDS 600 LB bc Plant Date 2	23	22	23	25	24	22	23
23 PIC 100 LB bc Plant Date 2	23	22	24	28	22	22	23



# University of Georgia

Weed Code	plant 7 pepper	plant 8 pepper	plant 9 pepper	plant 10 pepper	plant 11 pepper	plant 12 pepper	plant 13 pepper
Crop Code							
Rating Data Type	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm
Rating Date	May-09-05	May-09-05	May-09-05	May-09-05	May-09-05	May-09-05	May-09-05
Trt-Eval Interval	83 DA-A	83 DA-A	83 DA-A	83 DA-A	83 DA-A	83 DA-A	83 DA-A
ARM Action Codes							
# Subsamples, Dec.							
Trt Treatment							
No. Name							
Rate							
Rate Unit							
	43	44	45	46	47	48	49
24 PIC 200 LB bc Plant Date 2	23	26	22	23	24	24	21
25 Vapam 75 G bc 6ft Plant Date 2	23	20	22	22	24	25	24
26 Bromide 67:33 400 lb bc Plant Date 2	25	24	24	22	24	21	25
27 DMDS 50:50 400 lb bc Plant Date 2	21	23	21	24	23	24	25
28 DMDS 67:33 300 lb bc Plant Date 2	22	23	22	22	24	25	23
29 DMDS 67:33 600 lb bc Plant Date 2	22	22	22	22	23	22	22
30 DMDS 75:25 800 lb bc Plant Date 2	22	17	21	22	23	22	20
31 DMDS 87:13 700 lb bc Plant Date 2	21	23	22	22	24	24	23
32 V 75 G fb DMDS 87:13 500 Plant Date 2	22	21	23	23	21	21	20
33 Vapam 75 G fb DMDS 200 lb Plant Date 2	23	23	23	23	24	24	24
34 Vapam 75 G fb DMDS 400 lb Plant Date 2	23	22	22	22	23	23	23
35 Vapam 75 G fb DMDS 600 lb Plant Date 2	21	21	25	22	24	24	25
36 Vapam 75 G fb DMDS 50:50 at 400 lb Plant Date 2	21	21	19	20	22	20	21
LSD (P=.05)	3.5	4.8	4.3	4.0	3.7	4.4	3.8
Standard Deviation	2.5	3.4	3.1	2.9	2.6	3.2	2.7
CV	11.54	15.61	14.11	13.19	11.77	14.28	12.18

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

# University of Georgia

Weed Code	plant 14	plant 15	plant 16	plant 17	plant 18	plant 19	plant 20	
Crop Code	pepper	pepper	pepper	pepper	pepper	pepper	pepper	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	
Rating Date	May-09-05	May-09-05	May-09-05	May-09-05	May-09-05	May-09-05	May-09-05	
Trt-Eval Interval	83 DA-A	83 DA-A	83 DA-A	83 DA-A	83 DA-A	83 DA-A	83 DA-A	
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	50	51	52	53	54	55	56
1 Non-treated Plant Date 1		21	21	23	22	22	20	22
2 DMDS 200 LB bc Plant Date 1		21	22	20	18	20	23	20
3 DMDS 400 LB bc Plant Date 1		20	24	23	22	22	24	21
4 DMDS 600 LB bc Plant Date 1		22	21	22	24	20	22	23
5 PIC 100 LB bc Plant Date 1		23	24	23	22	24	20	22
6 PIC 200 LB bc Plant Date 1		24	24	21	23	22	26	24
7 Vapam 75 G bc 6ft Plant Date 1		19	21	19	24	21	22	21
8 Bromide 67:33 400 lb bc Plant Date 1		22	20	24	24	23	21	19
9 DMDS 50:50 400 lb bc Plant Date 1		20	20	20	22	22	20	22
10 DMDS 67:33 300 lb bc Plant Date 1		24	23	22	25	20	24	25
11 DMDS 67:33 600 lb bc Plant Date 1		22	20	19	20	21	21	20
12 DMDS 75:25 800 lb bc Plant Date 1		20	18	19	19	18	21	21
13 DMDS 87:13 700 lb bc Plant Date 1		21	21	20	21	22	22	22
14 V 75 G fb DMDS 87:13 500 Plant Date 1		19	21	18	19	20	18	18
15 Vapam 75 G fb DMDS 200 lb Plant Date 1		18	18	19	19	20	21	19
16 Vapam 75 G fb DMDS 400 lb Plant Date 1		21	20	21	21	19	19	22
17 Vapam 75 G fb DMDS 600 lb Plant Date 1		23	22	21	22	21	20	22
18 Vapam 75 G fb DMDS 50:50 fb DMDS 50:50 400 lb/A Plant Date 1		21	20	21	20	20	20	18
19 Non-treated Plant Date 2		22	23	22	23	22	22	22
20 DMDS 200 LB bc Plant Date 2		23	22	23	23	23	23	23
21 DMDS 400 LB bc Plant Date 2		24	26	26	23	25	24	24
22 DMDS 600 LB bc Plant Date 2		23	22	23	25	25	25	25
23 PIC 100 LB bc Plant Date 2		25	25	24	25	23	20	24

## University of Georgia

Weed Code	plant 14	plant 15	plant 16	plant 17	plant 18	plant 19	plant 20	
Crop Code	pepper	pepper	pepper	pepper	pepper	pepper	pepper	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	
Rating Date	May-09-05	May-09-05	May-09-05	May-09-05	May-09-05	May-09-05	May-09-05	
Trt-Eval Interval	83 DA-A	83 DA-A	83 DA-A	83 DA-A	83 DA-A	83 DA-A	83 DA-A	
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	50	51	52	53	54	55	56
24 PIC 200 LB bc Plant Date 2		25	26	24	24	23	26	24
25 Vapam 75 G bc 6ft Plant Date 2		23	24	25	22	23	26	23
26 Bromide 67:33 400 lb bc Plant Date 2		24	24	25	22	22	22	22
27 DMDS 50:50 400 lb bc Plant Date 2		23	24	23	24	24	22	24
28 DMDS 67:33 300 lb bc Plant Date 2		23	22	24	23	21	20	20
29 DMDS 67:33 600 lb bc Plant Date 2		21	23	24	22	24	24	22
30 DMDS 75:25 800 lb bc Plant Date 2		23	22	23	24	23	23	22
31 DMDS 87:13 700 lb bc Plant Date 2		23	23	23	20	18	23	24
32 V 75 G fb DMDS 87:13 500 Plant Date 2		21	21	23	22	20	21	22
33 Vapam 75 G fb DMDS 200 lb Plant Date 2		20	26	22	23	24	22	24
34 Vapam 75 G fb DMDS 400 lb Plant Date 2		21	23	22	22	22	19	22
35 Vapam 75 G fb DMDS 600 lb Plant Date 2		25	22	24	24	22	22	25
36 Vapam 75 G fb DMDS 50:50 at 400 lb Plant Date 2		21	20	20	21	19	20	19
LSD (P=.05)		3.8	3.9	3.6	3.8	4.2	4.5	3.8
Standard Deviation		2.7	2.8	2.6	2.7	3.0	3.2	2.7
CV		12.38	12.82	11.66	12.17	14.05	14.84	12.37

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

# University of Georgia

Weed Code	AvgHt	Harv 1	Harv 1	Harv 2	Harv 2	Harv 3	Harv 3	
Crop Code	20plant	pepper	pepper	pepper	pepper	pepper	pepper	
Rating Data Type	ht	fancy frt	fancy fruit	fancy frt	fancy fruit	fancy frt	fancy fruit	
Rating Unit	cm	#	wt / lb	#	wt / lb	#	wt/lb	
Rating Date	May-09-05	Jun-16-05	Jun-16-05	Jun-23-05	Jun-23-05	Jul-06-05	Jul-06-05	
Trt-Eval Interval	83 DA-A	121 DA-A	121 DA-A	128 DA-A	128 DA-A	141 DA-A	141 DA-A	
ARM Action Codes	T2							
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	57	58	59	60	61	62	63
1 Non-treated Plant Date 1	22							
2 DMDS 200 LB bc Plant Date 1	21							
3 DMDS 400 LB bc Plant Date 1	22							
4 DMDS 600 LB bc Plant Date 1	23							
5 PIC 100 LB bc Plant Date 1	23							
6 PIC 200 LB bc Plant Date 1	23							
7 Vapam 75 G bc 6ft Plant Date 1	21							
8 Bromide 67:33 400 lb bc Plant Date 1	23							
9 DMDS 50:50 400 lb bc Plant Date 1	21							
10 DMDS 67:33 300 lb bc Plant Date 1	23							
11 DMDS 67:33 600 lb bc Plant Date 1	21							
12 DMDS 75:25 800 lb bc Plant Date 1	21							
13 DMDS 87:13 700 lb bc Plant Date 1	21							
14 V 75 G fb DMDS 87:13 500 Plant Date 1	20							
15 Vapam 75 G fb DMDS 200 lb Plant Date 1	20							
16 Vapam 75 G fb DMDS 400 lb Plant Date 1	21							
17 Vapam 75 G fb DMDS 600 lb Plant Date 1	21							
18 Vapam 75 G fb DMDS 50:50 fb DMDS 50:50 400 lb/A Plant Date 1	20							
19 Non-treated Plant Date 2	22	24	8	22	8	19	7	
20 DMDS 200 LB bc Plant Date 2	22	29	10	21	8	18	7	
21 DMDS 400 LB bc Plant Date 2	24	45	15	22	8	19	8	
22 DMDS 600 LB bc Plant Date 2	23	45	15	20	7	27	10	
23 PIC 100 LB bc Plant Date 2	23	46	17	22	8	31	12	

# University of Georgia

Weed Code	AvgHt	Harv 1	Harv 1	Harv 2	Harv 2	Harv 3	Harv 3	
Crop Code	20plant	pepper	pepper	pepper	pepper	pepper	pepper	
Rating Data Type	ht	fancy frt	fancy fruit	fancy frt	fancy fruit	fancy frt	fancy fruit	
Rating Unit	cm	#	wt / lb	#	wt / lb	#	wt/lb	
Rating Date	May-09-05	Jun-16-05	Jun-16-05	Jun-23-05	Jun-23-05	Jul-06-05	Jul-06-05	
Trt-Eval Interval	83 DA-A	121 DA-A	121 DA-A	128 DA-A	128 DA-A	141 DA-A	141 DA-A	
ARM Action Codes	T2							
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	57	58	59	60	61	62	63
24 PIC 200 LB bc Plant Date 2	23	57	18	26	9	38	14	
25 Vapam 75 G bc 6ft Plant Date 2	23	49	17	31	12	25	10	
26 Bromide 67:33 400 lb bc Plant Date 2	23	55	21	20	8	32	14	
27 DMDS 50:50 400 lb bc Plant Date 2	23	53	18	19	7	32	13	
28 DMDS 67:33 300 lb bc Plant Date 2	22	57	19	18	7	46	17	
29 DMDS 67:33 600 lb bc Plant Date 2	22	54	18	22	7	25	11	
30 DMDS 75:25 800 lb bc Plant Date 2	21	65	22	18	6	29	13	
31 DMDS 87:13 700 lb bc Plant Date 2	22	47	17	20	7	48	18	
32 V 75 G fb DMDS 87:13 500 Plant Date 2	21	53	18	30	10	37	14	
33 Vapam 75 G fb DMDS 200 lb Plant Date 2	23	44	16	33	11	29	12	
34 Vapam 75 G fb DMDS 400 lb Plant Date 2	22	44	15	38	14	38	15	
35 Vapam 75 G fb DMDS 600 lb Plant Date 2	23	43	16	22	9	44	17	
36 Vapam 75 G fb DMDS 50:50 at 400 lb Plant Date 2	20	48	19	22	8	42	18	
LSD (P=.05)	1.7	10.0	3.3	13.6	4.3	16.6	5.4	
Standard Deviation	1.2	7.1	2.3	9.6	3.0	11.7	3.8	
CV	5.55	14.88	13.89	40.61	35.69	36.52	30.09	

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

Column 57: T2 = @AVG([37].[56])

# University of Georgia

Weed Code	Harv3 pepper med fruit	Harv 3 pepper med fruit	Harv1-3 pepper fancy frt	Harv1-3 pepper fancy frt
Crop Code				
Rating Data Type				
Rating Unit	#	wt/lb	#	lbs
Rating Date	Jul-06-05	Jul-06-05	Aug-02-05	Aug-02-05
Trt-Eval Interval	141 DA-A	141 DA-A	168 DA-A	168 DA-A
ARM Action Codes			T3	T4
# Subsamples, Dec.				
Trt No.	Treatment Name	Rate	Rate	Rate
		Unit	Unit	Unit
		64	65	66
1	Non-treated Plant Date 1			
2	DMDS 200 LB bc Plant Date 1			
3	DMDS 400 LB bc Plant Date 1			
4	DMDS 600 LB bc Plant Date 1			
5	PIC 100 LB bc Plant Date 1			
6	PIC 200 LB bc Plant Date 1			
7	Vapam 75 G bc 6ft Plant Date 1			
8	Bromide 67:33 400 lb bc Plant Date 1			
9	DMDS 50:50 400 lb bc Plant Date 1			
10	DMDS 67:33 300 lb bc Plant Date 1			
11	DMDS 67:33 600 lb bc Plant Date 1			
12	DMDS 75:25 800 lb bc Plant Date 1			
13	DMDS 87:13 700 lb bc Plant Date 1			
14	V 75 G fb DMDS 87:13 500 Plant Date 1			
15	Vapam 75 G fb DMDS 200 lb Plant Date 1			
16	Vapam 75 G fb DMDS 400 lb Plant Date 1			
17	Vapam 75 G fb DMDS 600 lb Plant Date 1			
18	Vapam 75 G fb DMDS 50:50 fb DMDS 50:50 400 lb/A Plant Date 1			
19	Non-treated Plant Date 2	83	20	65
20	DMDS 200 LB bc Plant Date 2	52	14	67
21	DMDS 400 LB bc Plant Date 2	69	18	86
22	DMDS 600 LB bc Plant Date 2	79	22	92
23	PIC 100 LB bc Plant Date 2	86	20	99

## University of Georgia

Weed Code	Harv3 pepper med fruit	Harv 3 pepper med fruit	Harv1-3 pepper fancy frt	Harv1-3 pepper fancy frt	
Crop Code					
Rating Data Type					
Rating Unit	#	wt/lb	#	lbs	
Rating Date	Jul-06-05	Jul-06-05	Aug-02-05	Aug-02-05	
Trt-Eval Interval	141 DA-A	141 DA-A	168 DA-A	168 DA-A	
ARM Action Codes			T3	T4	
# Subsamples, Dec.					
Trt No.	Treatment Name	Rate	Rate	Rate	
		Unit	Unit	Unit	
		64	65	66	
		67			
24	PIC 200 LB bc Plant Date 2	92	23	121	41
25	Vapam 75 G bc 6ft Plant Date 2	112	26	105	39
26	Bromide 67:33 400 lb bc Plant Date 2	97	26	107	42
27	DMDS 50:50 400 lb bc Plant Date 2	91	25	104	38
28	DMDS 67:33 300 lb bc Plant Date 2	75	20	121	42
29	DMDS 67:33 600 lb bc Plant Date 2	96	26	101	37
30	DMDS 75:25 800 lb bc Plant Date 2	109	28	112	40
31	DMDS 87:13 700 lb bc Plant Date 2	96	23	115	42
32	V 75 G fb DMDS 87:13 500 Plant Date 2	93	23	119	43
33	Vapam 75 G fb DMDS 200 lb Plant Date 2	104	27	106	39
34	Vapam 75 G fb DMDS 400 lb Plant Date 2	75	19	120	44
35	Vapam 75 G fb DMDS 600 lb Plant Date 2	94	21	108	41
36	Vapam 75 G fb DMDS 50:50 at 400 lb Plant Date 2	66	21	112	45
LSD (P=.05)		39.6	8.1	20.0	6.1
Standard Deviation		28.0	5.8	14.2	4.3
CV		32.09	25.73	13.71	11.39

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

Column 66: T3 = [58]+[60]+[62]

Column 67: T4 = [59]+[61]+[63]

### University of Georgia

Nutsedge and pepper response to DMDS mixtures.

Trial ID: Veg3-05 Study Dir.: Culpepper  
Location: Ponder 5141 Investigator: Stanley Culpepper

#### GENERAL TRIAL INFORMATION

**Study Director:** Stanley Culpepper **Title:** Ext. Weed Science  
**Affiliation:** Univ. of Georgia  
**Postal Code:** 31794

**Investigator:** Stanley Culpepper **Title:** Ext. Weed Science  
**Affiliation:** Univ. of Georgia  
**Postal Code:** 31794

#### TRIAL LOCATION

**City:** TyTy **Trial Status:** completed  
**State/Prov.:** GA **Trial Reliability:** excellent  
**Postal Code:** 31794 **Initiation Date:** Feb-15-05  
**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:** Stelleto  
**Planting Date:** Feb-25-05 **Planting Method:** transplant  
**Rate:** 1 foot **Depth:** 1 in **Perennial Age:** \_\_\_\_\_  
**Row Spacing:** 15 inch **Spacing Within Row:** 12 inch **Seed Bed:** plasticulture  
**Soil Temperature:** \_\_\_\_\_ **Soil Moisture:** drip **Emergence Date:** \_\_\_\_\_

#### SITE AND DESIGN

**Plot Width, Unit:** 3 FT **Plot Length, Unit:** 20 FT **Reps:** 4  
**Site Type:** research station  
**Tillage Type:** plasticulture **Study Design:** FACTORIAL

**Trial Initiation Comments:**

	Previous Crops	Previous Pesticides	Year
1.			

#### MAINTENANCE

**Field Prep./Maintenance:**



# University of Georgia

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

**SOIL DESCRIPTION**

% Sand: 94      % OM: 1.3      Texture: sand  
 % Silt: 2      pH: 6.4      Soil Name: Tifton sandy loam  
 % Clay: 4      CEC: \_\_\_\_\_      Fert. Level: \_\_\_\_\_

**ADDITIONAL MEASURED ELEMENTS**

Element	Quantity	Unit

**MOISTURE CONDITIONS**

	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: drip

Closest Weather Station: \_\_\_\_\_ Distance: \_\_\_\_\_ Unit: \_\_

**APPLICATION DESCRIPTION**

	A	B
Application Date:	Feb-15-05	Feb-15-05
Time of Day:	all day	all day
Application Method:	preplant	preplant
Application Timing:	fumigatio	fumigatio
Applic. Placement:	un mulch	un mulch
Air Temp., Unit:	63 F	63 F
% Relative Humidity:	64	64
Wind Velocity, Unit:	2 mph	2 mph
Dew Presence (Y/N):	n	n
Water Hardness:		
Soil Temp., Unit:	60 F	60 F
Soil Moisture:	moist	moist
% Cloud Cover:	30	30

**CROP STAGE AT EACH APPLICATION**

	A	B
Crop 1 Code, Stage:	CPSAN preplant	CPSAN preplant
Stage Scale:	not plant	not plant
Height, Unit:	0 inch	0 inch

**WEED STAGE AT EACH APPLICATION**

	A	B
Weed 1 Code, Stage:	CYPRO preplant	CYPRO preplant
Stage Scale:	not up	not up
Density, Unit:	6-10 sqyd	6-10 sqyd

# University of Georgia

## APPLICATION EQUIPMENT

	A	B
<b>Appl. Equipment:</b>	MB rig	MB rig
<b>Operating Pressure:</b>	varies	varies
<b>Nozzle Type:</b>	shank	shank
<b>Nozzle Size:</b>	applied	applied
<b>Nozzle Spacing, Unit:</b>	12 inch	12 inch
<b>Nozzles/Row:</b>	3	3
<b>Band Width, Unit:</b>		
<b>Boom Length, Unit:</b>		
<b>Boom Height, Unit:</b>		
<b>Ground Speed, Unit:</b>	2.5 mph	2.5 mph
<b>Incorporation Equip.:</b>		
<b>Hours to Incorp.:</b>		
<b>Incorp. Depth, Unit:</b>		
<b>Carrier:</b>	none	none
<b>Spray Volume, Unit:</b>		
<b>Spray pH:</b>		
<b>Propellant:</b>	N	N
<b>Tank Mix (Y/N):</b>	Y	Y

Trt No	Treatment Application Comment