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Long-Term Effects of Methyl Bromide Alternatives on Weeds, Diseases, & Nematodes

YEAR 5 (crops 9 and 10)

Trial ID: Veg16-08(TVP)

Study Dir.: Davis, Culpepper

Location: Tifton

Investigator: Stanley Culpepper

Reps: 4

Plots: 12 by 25 feet

Spray vol: 24 gal/ac

Mix size: 3 liters (min 2.5027)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Form Unit	Rate Unit	Grow Stg	Appl Code	Amt to Measure	Product	Plot No. By Rep			
											1	2	3	4
1	No Fumigant No Herbicide							A			101	211	315	411
2	No Fumigant Command Dual Magnum	3 7.62	ME L	1	QT/A PT/A	PRE PRE	A A	A A	31.25 ml/mx 15.62 ml/mx		102	212	316	412
3	MB 50:50 (210 lb/A) (VIF) No Herbicide							A A			107	207	311	405
4	MB 50:50 (210 lb/A) (VIF) Command Dual Magnum	3 7.62	ME L	1	QT/A PT/A	PRE PRE	A A	A A	31.25 ml/mx 15.62 ml/mx		108	208	312	406
5	MIDAS 50:50 (175 lb/A)VIF No Herbicide							A A			109	203	307	401
6	MIDAS 50:50 (175 lb/A)VIF Command Dual Magnum	3 7.62	ME L	1	QT/A PT/A	PRE PRE	A A	A A	31.25 ml/mx 15.62 ml/mx		110	204	308	402
7	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 No Herbicide							A A A			103	209	305	409
8	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 Command Dual Magnum	3 7.62	ME L	1	QT/A PT/A	PRE PRE	A A	A A	31.25 ml/mx 15.62 ml/mx		104	210	306	410
9	T2 (12 G) + Vapam(75 G) + Pic (150 lb) No Herbicide							A A A			113	201	309	415
10	T2 (12 G) + Vapam(75 G) + Pic 150 lb Command Dual Magnum	3 7.62	ME L	1	QT/A PT/A	PRE PRE	A A	A A	31.25 ml/mx 15.62 ml/mx		114	202	310	416
11	T-C35 (35 G) (8" inject) No Herbicide							A A			115	213	301	403
12	T-C35 (35 G) (8"inject) Command Dual Magnum	3 7.62	ME L	1	QT/A PT/A	PRE PRE	A A	A A	31.25 ml/mx 15.62 ml/mx		116	214	302	404
13	T2 (12 G) + Pic (150 lb) No Herbicide							A A			105	205	313	413
14	T2 (12 G) + Pic (150 lb) Command Dual Magnum	3 7.62	ME L	1	QT/A PT/A	PRE PRE	A A	A A	31.25 ml/mx 15.62 ml/mx		106	206	314	414
15	Vapam (75 G) No Herbicide							A A			111	215	303	407
16	Vapam (75 G) Command Dual Magnum	3 7.62	ME L	1	QT/A PT/A	PRE PRE	A A	A A	31.25 ml/mx 15.62 ml/mx		112	216	304	408

Sort Order: Treatment

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Reps: 4 Plots: 12 by 25 feet
 Spray vol: 24 gal/ac Mix size: 3 liters (min 2.5027)

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Form Unit	Rate Stg	Grow Code	Appl to Measure	Amt Product 1	Plot No. By Rep			
										2	3	4	

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
312.467	ml	Command	3	ME	
156.234	ml	Dual Magnum	7.62	L	

* 'Per area' calculations based on spray volume= 24 gal/ac, mix size= 3 liters (mix size basis).
 * Product amount calculations increased 25 % for overage adjustment.

Trial Comments

OBJECTIVE: Determine weed, disease, and nematode shifts when applying the same fumigant on the same area for at least 5 years.

VISUAL PEPPER

1. Pepper was planted 25 day after fumigating. The 3-WAY and MIDAS visually stunted pepper 8 to 16% at 30 DAP. These were the only two fumigants with greater than 10 ppm of gas in the bed at planting. Herbicides stunted early season pepper growth by 8.3% when averaged over all the fumigants. Plant stunting was not noted in early May.

PEPPER HEIGHTS: (20 plants per plot measured):

1. Pepper stand was not impacted by treatments (fumigant or herbicide).
2. Shortest plants were noted with MIDAS and the 3-WAY. A tendency for shorter plants was also noted across fumigants when herbicides were applied.

WEED RESPONSE:

1. Yellow nutsedge: The non-treated control, Telone C35, and the T2 + Pic had 174 to 288 plants per plot at the end of the fall cucumber crop. These same programs with herbicides had 73 to 173 plants per plot. Vapam alone had 64 plants per plot while all other systems had less than 4 plants per plot.
2. Livid amaranth: 25 to 34 plants per plot were noted in the no fumigant, Telone C35, and T2 + Pic systems at the end of the fall cucumber crop. Ten or fewer plants were noted with all other systems.
3. Large crabgrass: At the end of the cucumber crop, greatest populations were noted in the non-treated control and in the Telone C35 and T2 fb Pic systems when no herbicide was applied. Populations were maintained during the crop with Select.
4. Smallflower morningglory: Control was similar when comparing all systems.
5. Purslane: At the end of the cucumber crop, greatest levels were noted in the control followed by the T-C35 and T2 fb Pic systems. No purslane was noted in systems containing herbicides, even when no fumigant was applied.

Pepper Yield (entire plot harvested 4 times for Jumbo fruit only):

1. No differences were noted when pooling harvests 1 and 2. A trend for less fruit was noted with MIDAS and the 3-WAY likely in response to early season stunting.
2. When adding all harvests: lowest yields were noted in the non-treated control followed by T2 + Pic and T-C35. Lower yields were likely noted because of weed competition or weeds impacting harvest.

CUCUMBER RUNNER LENGTHS :

1. Shortest plants were noted in the non-treated control, the T-C35 program, and the T2 + Pic program.
2. The herbicide program generally reduced cucumber growth across all fumigants. This may be due to carryover from Dual applied in the pepper crop.

CUCUMBER YIELDS:

1. Cucumber were harvested 12 times for Select or Super fruit.
2. Yields were similar among all systems except those heavily infested with weeds. The non-treated control, T2 + Pic, and T-C35 generally produced lower yields. For these three fumigant systems, the addition of the herbicide program did improve yields.

GENERAL COMMENTS:

1. Fumigants were applied, beds were formed and mulch was laid. MB, MIDAS, and PIC were applied with super bedder plastic layer injected 8 inches deep with 3 knives on a 32 inch bedtop. Vapam was injected 4 inches deep with the injection knives 4 inches on the final bed just prior to covering with mulch. Telone II and Telone C35 were injected 10-12 inches deep with a Yetter applicator.
2. On June 29, 45 gallons of Vapam (broadcast rate) was injected through the drip prior to planting the fall crop.
3. On July 29, Roundup WeatherMax was applied over the entire trial area.
4. On March 1 and July 29, row middle herbicide applications were made prior to transplanting the crop.
5. On April 5 and Aug 29, the entire trail was sprayed with Select to remove annual grasses.

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YEAR 5 (crops 9 and 10)

Trial ID: Veg16-08(TVP)

Study Dir.: Davis, Culpepper

Location: Tifton

Investigator: Stanley Culpepper

Weed Code	GAS PPM CPSAN	GAS PPM CPSAN	GAS PPM CPSAN	CPSAN	CPSAN	CYPES CPSAN	CYPES CPSAN	
Crop Code	plots	plots	plots					
Part Rated	at planting	at planting	at planting	injury	injury	#	#	
Rating Data Type	ppm	ppm	ppm	%	%	per plot	per plot	
Rating Unit	Mar-21-08	Mar-21-08	Mar-21-08	Apr-21-08	May-07-08	Apr-04-08	Apr-21-08	
Rating Date	bed 1	bed 2	Avg2beds					
Crop Stage	22 DA-A	22 DA-A	22 DA-A	53 DA-A	69 DA-A	36 DA-A	53 DA-A	
Trt-Eval Interval			T19					
ARM Action Codes								
Trt No.	Treatment Name	Rate	Rate	Unit				
		1	2	3	5	6	8	
		9						
1	No Fumigant No Herbicide	0 b	0 b	0 b	0 e	0 a	66 a	71 b
2	No Fumigant Command Dual Magnum				8 cd	0 a	27 b	38 bc
3	MB 50:50 (210 lb/A) (VIF) No Herbicide	0 b	0 b	0 b	1 de	0 a	0 b	0 c
4	MB 50:50 (210 lb/A) (VIF) Command Dual Magnum				10 bc	0 a	0 b	0 c
5	MIDAS 50:50 (175 lb/A)VIF No Herbicide	12 a	13 a	13 a	16 b	0 a	0 b	0 c
6	MIDAS 50:50 (175 lb/A)VIF Command Dual Magnum				23 a	0 a	0 b	0 c
7	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 No Herbicide	1 b	1 b	1 b	0 e	0 a	0 b	0 c
8	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 Command Dual Magnum				6 cde	0 a	0 b	0 c
9	T2 (12 G) + Vapam(75 G) + Pic (150 lb) No Herbicide	13 a	22 a	18 a	8 cd	0 a	0 b	0 c
10	T2 (12 G) + Vapam(75 G) + Pic 150 lb Command Dual Magnum				11 bc	0 a	0 b	0 c
11	T-C35 (35 G) (8" inject) No Herbicide	5 ab	2 b	4 b	2 de	0 a	31 b	38 bc
12	T-C35 (35 G) (8"inject) Command Dual Magnum				8 cd	0 a	4 b	5 c
13	T2 (12 G) + Pic (150 lb) No Herbicide	1 b	2 b	1 b	0 e	0 a	93 a	147 a
14	T2 (12 G) + Pic (150 lb) Command Dual Magnum				6 cde	0 a	33 b	37 bc
15	Vapam (75 G) No Herbicide	0 b	0 b	0 b	0 e	0 a	15 b	17 c

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Weed Code	GAS PPM	GAS PPM	GAS PPM	CPSAN	CPSAN	CYPES	CYPES
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated	plots	plots					
Rating Data Type	at planting	at planting	at planting	injury	injury	#	#
Rating Unit	ppm	ppm	ppm	%	%	per plot	per plot
Rating Date	Mar-21-08	Mar-21-08	Mar-21-08	Apr-21-08	May-07-08	Apr-04-08	Apr-21-08
Crop Stage	bed 1	bed 2	Avg2beds				
Trt-Eval Interval	22 DA-A	22 DA-A	22 DA-A	53 DA-A	69 DA-A	36 DA-A	53 DA-A
ARM Action Codes			T19				
Trt Treatment	Rate						
No. Name	Rate Unit	1	2	3	5	6	8
16 Vapam (75 G)					0 e	0 a	0 b
Command	1 QT/A						0 c
Dual Magnum	1 PT/A						
LSD (P=.05)	8.0	10.7	8.5	6.4	0.0	31.4	38.3
Standard Deviation	5.4	7.3	5.8	4.5	0.0	22.0	26.8
CV	133.73	141.4	126.19	73.23	0.0	131.29	122.33
Bartlett's X2	34.936	65.056	44.547	19.547	0.0	15.106	20.3
P(Bartlett's X2)	0.001*	0.001*	0.001*	0.034*	.	0.019*	0.002*

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

Column 3: T19 = @AVG([C1],[C2])

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Weed Code	CYPES	CYPES	AMAVI	AMAVI	AMAVI	AMAVI	DIGSA		
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN		
Part Rated									
Rating Data Type	#	#	#	#	#	#	#		
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot		
Rating Date	Aug-31-08	Oct-15-08	Apr-04-08	Apr-21-08	Aug-31-08	Oct-15-08	Apr-04-08		
Crop Stage									
Trt-Eval Interval	185 DA-A	230 DA-A	36 DA-A	53 DA-A	185 DA-A	230 DA-A	36 DA-A		
ARM Action Codes									
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit							
			10	11	13	14	15	16	18
1	No Fumigant No Herbicide		171 ab	289 a	20 a	63 a	2 c	66 a	1 ab
2	No Fumigant Command Dual Magnum	1 QT/A 1 PT/A	122 bc	173 bc	0 b	3 c	1 c	9 d	0 b
3	MB 50:50 (210 lb/A) (VIF) No Herbicide		1 e	3 e	0 b	0 c	0 c	0 d	0 b
4	MB 50:50 (210 lb/A) (VIF) Command Dual Magnum	1 QT/A 1 PT/A	0 e	0 e	0 b	0 c	0 c	0 d	0 b
5	MIDAS 50:50 (175 lb/A)VIF No Herbicide		0 e	3 e	0 b	0 c	1 c	9 d	0 b
6	MIDAS 50:50 (175 lb/A)VIF Command Dual Magnum	1 QT/A 1 PT/A	0 e	2 e	0 b	0 c	0 c	5 d	0 b
7	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 No Herbicide		0 e	0 e	0 b	0 c	0 c	1 d	0 b
8	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 Command Dual Magnum	1 QT/A 1 PT/A	0 e	0 e	0 b	0 c	0 c	1 d	0 b
9	T2 (12 G) + Vapam(75 G) + Pic (150 lb) No Herbicide		3 e	0 e	0 b	0 c	0 c	1 d	0 b
10	T2 (12 G) + Vapam(75 G) + Pic 150 lb Command Dual Magnum	1 QT/A 1 PT/A	0 e	0 e	0 b	0 c	0 c	1 d	0 b
11	T-C35 (35 G) (8" inject) No Herbicide		86 cd	174 bc	2 b	10 b	4 b	26 c	2 ab
12	T-C35 (35 G) (8"inject) Command Dual Magnum	1 QT/A 1 PT/A	25 e	73 de	0 b	0 c	0 c	10 d	0 b
13	T2 (12 G) + Pic (150 lb) No Herbicide		196 a	236 ab	0 b	5 bc	6 a	37 b	2 a
14	T2 (12 G) + Pic (150 lb) Command Dual Magnum	1 QT/A 1 PT/A	120 bc	102 cd	0 b	3 c	0 c	7 d	0 b
15	Vapam (75 G) No Herbicide		39 de	64 de	0 b	0 c	1 c	5 d	0 b

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Weed Code	CYPES	CYPES	AMAVI	AMAVI	AMAVI	AMAVI	DIGSA
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated							
Rating Data Type	#	#	#	#	#	#	#
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot
Rating Date	Aug-31-08	Oct-15-08	Apr-04-08	Apr-21-08	Aug-31-08	Oct-15-08	Apr-04-08
Crop Stage							
Trt-Eval Interval	185 DA-A	230 DA-A	36 DA-A	53 DA-A	185 DA-A	230 DA-A	36 DA-A
ARM Action Codes							
Trt Treatment	Rate						
No. Name	Rate Unit	10	11	13	14	15	16
16 Vapam (75 G)		0 e	0 e	0 b	0 c	0 c	2 d
Command	1 QT/A						
Dual Magnum	1 PT/A						
LSD (P=.05)	49.0	85.6	6.0	5.4	1.9	8.7	1.5
Standard Deviation	34.3	59.9	4.2	3.8	1.3	6.1	1.1
CV	71.96	85.61	316.66	72.77	138.64	54.49	336.04
Bartlett's X2	60.081	106.065	12.68	16.426	25.791	36.128	8.997
P(Bartlett's X2)	0.001*	0.001*	0.001*	0.006*	0.001*	0.001*	0.029*

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

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Weed Code	DIGSA	DIGSA	DIGSA	IAQTA	IAQTA	IAQTA	POROL		
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN		
Part Rated									
Rating Data Type	#	#	#	#	#	#	#		
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot		
Rating Date	Apr-21-08	Aug-14-08	Sep-02-08	Apr-21-08	Aug-14-08	Sep-02-08	Apr-21-08		
Crop Stage									
Trt-Eval Interval	53 DA-A	168 DA-A	187 DA-A	53 DA-A	168 DA-A	187 DA-A	53 DA-A		
ARM Action Codes									
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit	19	20	21	23	24	25	27
1	No Fumigant No Herbicide		3 a	3 a	8 a	0 a	5 a	9 a	3 a
2	No Fumigant Command Dual Magnum	1 QT/A 1 PT/A	0 b	0 b	1 c	0 a	6 a	9 a	0 b
3	MB 50:50 (210 lb/A) (VIF) No Herbicide		0 b	0 b	2 c	0 a	5 a	8 a	0 b
4	MB 50:50 (210 lb/A) (VIF) Command Dual Magnum	1 QT/A 1 PT/A	0 b	0 b	2 c	0 a	6 a	9 a	0 b
5	MIDAS 50:50 (175 lb/A)VIF No Herbicide		0 b	0 b	1 c	0 a	5 a	8 a	0 b
6	MIDAS 50:50 (175 lb/A)VIF Command Dual Magnum	1 QT/A 1 PT/A	0 b	0 b	3 c	0 a	4 a	5 a	0 b
7	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 No Herbicide		0 b	0 b	1 c	0 a	5 a	7 a	0 b
8	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 Command Dual Magnum	1 QT/A 1 PT/A	0 b	0 b	1 c	0 a	4 a	7 a	0 b
9	T2 (12 G) + Vapam(75 G) + Pic (150 lb) No Herbicide		0 b	0 b	0 c	0 a	5 a	7 a	0 b
10	T2 (12 G) + Vapam(75 G) + Pic 150 lb Command Dual Magnum	1 QT/A 1 PT/A	0 b	0 b	0 c	0 a	3 a	5 a	0 b
11	T-C35 (35 G) (8" inject) No Herbicide		3 a	3 a	5 b	0 a	4 a	6 a	2 ab
12	T-C35 (35 G) (8"inject) Command Dual Magnum	1 QT/A 1 PT/A	0 b	0 b	2 c	0 a	4 a	4 a	0 b
13	T2 (12 G) + Pic (150 lb) No Herbicide		2 a	3 a	5 b	0 a	4 a	5 a	2 ab
14	T2 (12 G) + Pic (150 lb) Command Dual Magnum	1 QT/A 1 PT/A	0 b	0 b	2 c	0 a	4 a	6 a	0 b
15	Vapam (75 G) No Herbicide		0 b	0 b	0 c	0 a	4 a	5 a	0 b

University of Georgia

Weed Code	DIGSA	DIGSA	DIGSA	IAQTA	IAQTA	IAQTA	POROL
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated							
Rating Data Type	#	#	#	#	#	#	#
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot
Rating Date	Apr-21-08	Aug-14-08	Sep-02-08	Apr-21-08	Aug-14-08	Sep-02-08	Apr-21-08
Crop Stage							
Trt-Eval Interval	53 DA-A	168 DA-A	187 DA-A	53 DA-A	168 DA-A	187 DA-A	53 DA-A
ARM Action Codes							
Trt Treatment							
No. Name	Rate						
	Rate Unit	19	20	21	23	24	25
16 Vapam (75 G)		0 b	0 b	1 c	0 a	4 a	5 a
Command	1 QT/A						
Dual Magnum	1 PT/A						
LSD (P=.05)	1.4	1.7	2.2	0.0	5.3	5.3	2.3
Standard Deviation	1.0	1.2	1.6	0.0	3.7	3.7	1.6
CV	196.36	260.67	74.02	0.0	83.7	56.25	389.62
Bartlett's X2	0.535	0.0	17.785	0.0	28.399	24.418	7.626
P(Bartlett's X2)	0.765	0.001*	0.217	.	0.008*	0.058	0.022*

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

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Weed Code	POROL CPSAN	POROL CPSAN	plant 1 CPSAN	plant 2 CPSAN	plant 3 CPSAN	plant 4 CPSAN	plant 5 CPSAN		
Crop Code									
Part Rated			left	left	left	left	left		
Rating Data Type	#	#	ht	ht	ht	ht	ht		
Rating Unit	per plot	per plot	cm	cm	cm	cm	cm		
Rating Date	Aug-14-08	Sep-02-08	Apr-08-08	Apr-08-08	Apr-08-08	Apr-08-08	Apr-08-08		
Crop Stage									
Trt-Eval Interval	168 DA-A	187 DA-A	40 DA-A	40 DA-A	40 DA-A	40 DA-A	40 DA-A		
ARM Action Codes									
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit							
			28	29	31	32	33		
							34		
							35		
1	No Fumigant No Herbicide		10 a	11 a	17 a	15 abc	15 bc	17 ab	17 a
2	No Fumigant Command Dual Magnum	1 QT/A 1 PT/A	0 c	0 c	16 a	17 a	16 abc	16 abc	16 a
3	MB 50:50 (210 lb/A) (VIF) No Herbicide		0 c	0 c	15 a	16 ab	15 bc	14 bc	14 ab
4	MB 50:50 (210 lb/A) (VIF) Command Dual Magnum	1 QT/A 1 PT/A	0 c	0 c	14 a	12 c	15 bc	15 abc	14 ab
5	MIDAS 50:50 (175 lb/A)VIF No Herbicide		1 c	1 c	14 a	15 abc	15 abc	15 abc	10 b
6	MIDAS 50:50 (175 lb/A)VIF Command Dual Magnum	1 QT/A 1 PT/A	0 c	0 c	15 a	15 abc	14 c	14 c	14 ab
7	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 No Herbicide		1 c	2 c	16 a	16 a	17 abc	16 abc	15 a
8	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 Command Dual Magnum	1 QT/A 1 PT/A	0 c	0 c	14 a	14 abc	16 abc	15 abc	14 ab
9	T2 (12 G) + Vapam(75 G) + Pic (150 lb) No Herbicide		1 c	1 c	15 a	13 bc	15 bc	16 abc	15 a
10	T2 (12 G) + Vapam(75 G) + Pic 150 lb Command Dual Magnum	1 QT/A 1 PT/A	0 c	0 c	15 a	14 abc	15 bc	14 bc	15 a
11	T-C35 (35 G) (8" inject) No Herbicide		4 b	6 b	17 a	17 a	17 ab	15 abc	14 ab
12	T-C35 (35 G) (8"inject) Command Dual Magnum	1 QT/A 1 PT/A	0 c	0 c	17 a	16 a	17 ab	17 a	16 a
13	T2 (12 G) + Pic (150 lb) No Herbicide		3 b	6 b	15 a	16 ab	18 a	16 abc	15 a
14	T2 (12 G) + Pic (150 lb) Command Dual Magnum	1 QT/A 1 PT/A	0 c	0 c	17 a	16 ab	16 abc	16 abc	15 a
15	Vapam (75 G) No Herbicide		0 c	1 c	17 a	16 ab	16 abc	17 a	16 a

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Weed Code	POROL	POROL	plant 1	plant 2	plant 3	plant 4	plant 5
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated			left	left	left	left	left
Rating Data Type	#	#	ht	ht	ht	ht	ht
Rating Unit	per plot	per plot	cm	cm	cm	cm	cm
Rating Date	Aug-14-08	Sep-02-08	Apr-08-08	Apr-08-08	Apr-08-08	Apr-08-08	Apr-08-08
Crop Stage							
Trt-Eval Interval	168 DA-A	187 DA-A	40 DA-A	40 DA-A	40 DA-A	40 DA-A	40 DA-A
ARM Action Codes							
Trt Treatment	Rate						
No. Name	Rate Unit	28	29	31	32	33	34
16 Vapam (75 G)		0 c	0 c	15 a	15 ab	16 abc	16 abc
Command	1 QT/A						
Dual Magnum	1 PT/A						
LSD (P=.05)	1.7	2.8	3.1	2.4	2.3	2.3	3.6
Standard Deviation	1.2	1.9	2.2	1.6	1.6	1.6	2.5
CV	104.09	111.98	14.03	10.91	10.25	10.24	17.2
Bartlett's X2	33.567	36.05	8.201	17.901	10.018	11.376	33.177
P(Bartlett's X2)	0.001*	0.001*	0.915	0.268	0.819	0.725	0.004*

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

University of Georgia

Weed Code	plant 6 CPSAN	plant 7 CPSAN	plant 8 CPSAN	plant 9 CPSAN	plant 10 CPSAN	plant av CPSAN	plant 1 CPSAN
Crop Code	left	left	left	left	left	left	right
Part Rated	ht	ht	ht	ht	ht	ht	ht
Rating Data Type	cm	cm	cm	cm	cm	cm	cm
Rating Unit	Apr-08-08	Apr-08-08	Apr-08-08	Apr-08-08	Apr-08-08	Apr-08-08	Apr-08-08
Rating Date	40 DA-A	40 DA-A	40 DA-A	40 DA-A	40 DA-A	40 DA-A	40 DA-A
Crop Stage							
Trt-Eval Interval							
ARM Action Codes						T1	
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate
		Unit	Unit	Unit	Unit	Unit	Unit
		36	37	38	39	40	42
1	No Fumigant No Herbicide	16 ab	15 ab	15 abc	16 a	14 abc	15 a-e 14 ab
2	No Fumigant Command Dual Magnum	14 b	16 ab	15 abc	14 a	16 ab	15 a-e 16 ab
3	MB 50:50 (210 lb/A) (VIF) No Herbicide	15 ab	16 ab	16 abc	14 a	16 ab	15 a-e 15 ab
4	MB 50:50 (210 lb/A) (VIF) Command Dual Magnum	14 b	14 ab	14 bc	14 a	15 abc	14 cde 16 ab
5	MIDAS 50:50 (175 lb/A)VIF No Herbicide	14 b	12 b	14 bc	14 a	14 abc	14 e 13 b
6	MIDAS 50:50 (175 lb/A)VIF Command Dual Magnum	14 b	14 ab	13 c	13 a	14 bc	14 de 15 ab
7	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 No Herbicide	16 ab	15 ab	16 ab	16 a	15 abc	16 a-d 15 ab
8	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 Command Dual Magnum	14 b	15 ab	15 abc	15 a	15 abc	15 b-e 14 ab
9	T2 (12 G) + Vapam(75 G) + Pic (150 lb) No Herbicide	15 b	14 ab	14 bc	14 a	14 abc	14 b-e 16 ab
10	T2 (12 G) + Vapam(75 G) + Pic 150 lb Command Dual Magnum	15 ab	15 ab	15 abc	15 a	13 c	15 a-e 15 ab
11	T-C35 (35 G) (8" inject) No Herbicide	17 ab	15 ab	16 ab	16 a	15 abc	16 abc 16 ab
12	T-C35 (35 G) (8"inject) Command Dual Magnum	17 ab	16 ab	16 ab	15 a	16 ab	16 ab 16 ab
13	T2 (12 G) + Pic (150 lb) No Herbicide	18 a	17 a	17 a	16 a	17 a	16 a 17 a
14	T2 (12 G) + Pic (150 lb) Command Dual Magnum	15 ab	15 ab	15 abc	14 a	16 ab	15 a-e 15 ab
15	Vapam (75 G) No Herbicide	16 ab	16 ab	16 abc	16 a	16 abc	16 ab 17 a

University of Georgia

Weed Code	plant 6	plant 7	plant 8	plant 9	plant 10	plant av	plant 1	
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	
Part Rated	left	left	left	left	left	left	right	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Apr-08-08	Apr-08-08	Apr-08-08	Apr-08-08	Apr-08-08	Apr-08-08	Apr-08-08	
Crop Stage								
Trt-Eval Interval	40 DA-A	40 DA-A	40 DA-A	40 DA-A	40 DA-A	40 DA-A	40 DA-A	
ARM Action Codes						T1		
Trt Treatment	Rate							
No. Name	Rate Unit	36	37	38	39	40	41	42
16 Vapam (75 G)		15 ab	16 ab	15 abc	16 a	16 ab	16 a-e	15 ab
Command	1 QT/A							
Dual Magnum	1 PT/A							
LSD (P=.05)		2.6	3.6	2.3	2.7	2.5	1.6	2.5
Standard Deviation		1.8	2.5	1.6	1.9	1.7	1.1	1.8
CV		12.11	16.75	10.65	12.8	11.57	7.48	11.71
Bartlett's X2		14.442	20.499	8.018	20.416	9.165	13.438	21.811
P(Bartlett's X2)		0.492	0.154	0.888	0.157	0.869	0.569	0.113

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

Column 34: T1 = @AVG([C31].[C40])

University of Georgia

Weed Code	plant 2 CPSAN	plant 3 CPSAN	plant 4 CPSAN	plant 5 CPSAN	plant 6 CPSAN	plant 7 CPSAN	plant 8 CPSAN		
Crop Code	right	right	right	right	right	right	right		
Part Rated	ht	ht	ht	ht	ht	ht	ht		
Rating Data Type	cm	cm	cm	cm	cm	cm	cm		
Rating Unit	Apr-08-08	Apr-08-08	Apr-08-08	Apr-08-08	Apr-08-08	Apr-08-08	Apr-08-08		
Rating Date	40 DA-A	40 DA-A	40 DA-A	40 DA-A	40 DA-A	40 DA-A	40 DA-A		
Crop Stage									
Trt-Eval Interval									
ARM Action Codes									
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit	43	44	45	46	47	48	49
1	No Fumigant No Herbicide		16 ab	16 ab	15 a	16 a	16 ab	16 abc	16 abc
2	No Fumigant Command Dual Magnum	1 QT/A 1 PT/A	14 ab	15 ab	17 a	14 a	15 ab	15 abc	14 bc
3	MB 50:50 (210 lb/A) (VIF) No Herbicide		16 ab	14 ab	16 a	15 a	16 a	15 abc	16 abc
4	MB 50:50 (210 lb/A) (VIF) Command Dual Magnum	1 QT/A 1 PT/A	15 ab	16 ab	15 a	15 a	16 ab	16 abc	15 abc
5	MIDAS 50:50 (175 lb/A)VIF No Herbicide		14 ab	13 ab	14 a	13 a	13 ab	13 bc	13 c
6	MIDAS 50:50 (175 lb/A)VIF Command Dual Magnum	1 QT/A 1 PT/A	14 b	13 ab	15 a	14 a	15 ab	11 c	14 bc
7	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 No Herbicide		15 ab	16 ab	15 a	15 a	16 ab	16 abc	15 abc
8	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 Command Dual Magnum	1 QT/A 1 PT/A	15 ab	14 ab	14 a	15 a	15 ab	15 abc	13 c
9	T2 (12 G) + Vapam(75 G) + Pic (150 lb) No Herbicide		15 ab	15 ab	15 a	15 a	15 ab	17 ab	14 abc
10	T2 (12 G) + Vapam(75 G) + Pic 150 lb Command Dual Magnum	1 QT/A 1 PT/A	14 ab	14 ab	14 a	14 a	12 b	13 abc	15 abc
11	T-C35 (35 G) (8" inject) No Herbicide		14 ab	14 ab	15 a	16 a	16 ab	13 abc	17 a
12	T-C35 (35 G) (8"inject) Command Dual Magnum	1 QT/A 1 PT/A	17 a	17 a	16 a	16 a	16 a	16 ab	16 abc
13	T2 (12 G) + Pic (150 lb) No Herbicide		15 ab	15 ab	16 a	15 a	15 ab	16 ab	16 ab
14	T2 (12 G) + Pic (150 lb) Command Dual Magnum	1 QT/A 1 PT/A	16 ab	16 a	16 a	16 a	16 a	18 a	17 ab
15	Vapam (75 G) No Herbicide		16 ab	12 b	16 a	15 a	15 ab	16 abc	15 abc

University of Georgia

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	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	Apr-08-08	Apr-08-08	Apr-08-08	Apr-08-08	Apr-08-08	Apr-08-08	Apr-08-08
Crop Stage							
Trt-Eval Interval	40 DA-A	40 DA-A	40 DA-A	40 DA-A	40 DA-A	40 DA-A	40 DA-A
ARM Action Codes							
Trt Treatment	Rate						
No. Name	Rate Unit	43	44	45	46	47	48
16 Vapam (75 G)		15 ab	15 ab	15 a	15 a	14 ab	15 abc
Command	1 QT/A						
Dual Magnum	1 PT/A						
LSD (P=.05)		2.6	3.6	2.6	2.9	2.8	4.1
Standard Deviation		1.8	2.5	1.8	2.0	1.9	2.9
CV		12.25	17.27	12.14	13.6	13.15	19.33
Bartlett's X2		11.598	29.107	5.294	14.709	19.842	55.719
P(Bartlett's X2)		0.639	0.016*	0.989	0.473	0.178	0.001*

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

University of Georgia

Weed Code	plant 9 CPSAN	plant 10 CPSAN	plant av CPSAN	AVG20 CPSAN	plant 1 CPSAN	plant 2 CPSAN	plant 3 CPSAN
Crop Code	right	right	right	both	left	left	left
Part Rated	ht	ht	ht	ht	ht	ht	ht
Rating Data Type	cm	cm	cm	cm	cm	cm	cm
Rating Unit	Apr-08-08	Apr-08-08	Apr-08-08	Apr-08-08	Apr-25-08	Apr-25-08	Apr-25-08
Rating Date	40 DA-A	40 DA-A	40 DA-A	40 DA-A	57 DA-A	57 DA-A	57 DA-A
Crop Stage							
Trt-Eval Interval							
ARM Action Codes			T2	T20			
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate
		Unit	Unit	Unit	Unit	Unit	Unit
50			51	52	53	55	57
1	No Fumigant No Herbicide		15 a	16 a	16 abc	15 abc	25 a
2	No Fumigant Command Dual Magnum	1 QT/A 1 PT/A	15 a	15 ab	15 a-d	15 abc	20 ab
3	MB 50:50 (210 lb/A) (VIF) No Herbicide		15 a	15 ab	15 a-d	15 a-d	19 b
4	MB 50:50 (210 lb/A) (VIF) Command Dual Magnum	1 QT/A 1 PT/A	15 a	14 ab	15 a-d	15 a-d	21 ab
5	MIDAS 50:50 (175 lb/A)VIF No Herbicide		12 b	12 b	13 d	13 d	19 b
6	MIDAS 50:50 (175 lb/A)VIF Command Dual Magnum	1 QT/A 1 PT/A	14 ab	14 ab	14 cd	14 cd	19 b
7	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 No Herbicide		16 a	15 ab	15 abc	15 abc	22 ab
8	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 Command Dual Magnum	1 QT/A 1 PT/A	16 a	15 ab	14 a-d	14 a-d	23 ab
9	T2 (12 G) + Vapam(75 G) + Pic (150 lb) No Herbicide		15 ab	15 ab	15 a-d	15 a-d	22 ab
10	T2 (12 G) + Vapam(75 G) + Pic 150 lb Command Dual Magnum	1 QT/A 1 PT/A	14 ab	15 ab	14 bcd	14 bcd	20 b
11	T-C35 (35 G) (8" inject) No Herbicide		16 a	16 a	15 abc	16 abc	22 ab
12	T-C35 (35 G) (8"inject) Command Dual Magnum	1 QT/A 1 PT/A	17 a	17 a	16 a	16 a	23 ab
13	T2 (12 G) + Pic (150 lb) No Herbicide		16 a	16 a	16 abc	16 a	23 ab
14	T2 (12 G) + Pic (150 lb) Command Dual Magnum	1 QT/A 1 PT/A	16 a	16 ab	16 ab	16 ab	24 ab
15	Vapam (75 G) No Herbicide		15 ab	16 a	15 a-d	16 abc	23 ab

University of Georgia

Weed Code	plant 9	plant 10	plant av	AVG20	plant 1	plant 2	plant 3	
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	
Part Rated	right	right	right	both	left	left	left	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Apr-08-08	Apr-08-08	Apr-08-08	Apr-08-08	Apr-25-08	Apr-25-08	Apr-25-08	
Crop Stage								
Trt-Eval Interval	40 DA-A	40 DA-A	40 DA-A	40 DA-A	57 DA-A	57 DA-A	57 DA-A	
ARM Action Codes			T2	T20				
Trt Treatment	Rate							
No. Name	Rate Unit	50	51	52	53	55	56	57
16 Vapam (75 G)		15 a	16 ab	15 a-d	15 abc	22 ab	24 a	24 ab
Command	1 QT/A							
Dual Magnum	1 PT/A							
LSD (P=.05)		2.7	3.1	1.8	1.5	4.1	4.5	3.9
Standard Deviation		1.9	2.2	1.3	1.0	2.9	3.2	2.7
CV		12.69	14.66	8.62	6.89	13.46	14.96	12.5
Bartlett's X2		13.424	10.582	12.631	9.956	11.349	20.827	16.553
P(Bartlett's X2)		0.57	0.782	0.631	0.822	0.727	0.142	0.346

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

Column 45: T2 = @AVG([C42].[C51])

Column 46: T20 = ([C41]+[C52])/2

University of Georgia

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	Apr-25-08	Apr-25-08	Apr-25-08	Apr-25-08	Apr-25-08	Apr-25-08	Apr-25-08	
Rating Date	57 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A	
Crop Stage								
Trt-Eval Interval								
ARM Action Codes								
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	
		Unit	Unit	Unit	Unit	Unit	Unit	
		58	59	60	61	62	63	
							64	
1	No Fumigant No Herbicide		24 ab	22 ab	23 a	22 a-e	24 ab	22 ab
2	No Fumigant Command Dual Magnum	1 QT/A 1 PT/A	23 ab	21 ab	23 abc	20 b-e	21 abc	22 ab
3	MB 50:50 (210 lb/A) (VIF) No Herbicide		21 ab	20 ab	22 abc	23 a-d	23 ab	20 abc
4	MB 50:50 (210 lb/A) (VIF) Command Dual Magnum	1 QT/A 1 PT/A	21 ab	19 ab	22 abc	21 a-e	19 bc	21 abc
5	MIDAS 50:50 (175 lb/A)VIF No Herbicide		20 b	18 b	19 c	18 e	17 c	17 c
6	MIDAS 50:50 (175 lb/A)VIF Command Dual Magnum	1 QT/A 1 PT/A	21 ab	19 ab	20 abc	19 de	21 abc	20 abc
7	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 No Herbicide		21 ab	22 ab	21 abc	22 a-e	22 ab	21 abc
8	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 Command Dual Magnum	1 QT/A 1 PT/A	22 ab	23 ab	22 abc	22 a-e	20 abc	24 a
9	T2 (12 G) + Vapam(75 G) + Pic (150 lb) No Herbicide		20 b	21 ab	22 abc	20 cde	20 abc	19 bc
10	T2 (12 G) + Vapam(75 G) + Pic 150 lb Command Dual Magnum	1 QT/A 1 PT/A	20 b	19 ab	19 bc	20 cde	21 abc	20 abc
11	T-C35 (35 G) (8" inject) No Herbicide		23 ab	23 ab	23 abc	22 a-e	24 a	23 ab
12	T-C35 (35 G) (8"inject) Command Dual Magnum	1 QT/A 1 PT/A	21 ab	24 a	22 abc	24 abc	22 ab	22 abc
13	T2 (12 G) + Pic (150 lb) No Herbicide		25 a	23 ab	21 abc	25 a	24 a	24 a
14	T2 (12 G) + Pic (150 lb) Command Dual Magnum	1 QT/A 1 PT/A	21 ab	22 ab	23 a	25 ab	23 ab	22 ab
15	Vapam (75 G) No Herbicide		21 ab	20 ab	21 abc	24 abc	22 ab	22 ab

University of Georgia

Weed Code	plant 4	plant 5	plant 6	plant 7	plant 8	plant 9	plant 10	
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	Apr-25-08	Apr-25-08	Apr-25-08	Apr-25-08	Apr-25-08	Apr-25-08	Apr-25-08	
Crop Stage								
Trt-Eval Interval	57 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A	
ARM Action Codes								
Trt Treatment	Rate							
No. Name	Rate Unit	58	59	60	61	62	63	64
16 Vapam (75 G)		21 ab	23 a	23 ab	22 a-e	23 ab	23 ab	23 a
Command	1 QT/A							
Dual Magnum	1 PT/A							
LSD (P=.05)		3.9	4.1	3.7	4.1	4.1	4.2	3.9
Standard Deviation		2.7	2.9	2.6	2.9	2.8	2.9	2.7
CV		12.61	13.74	11.98	13.34	13.2	13.7	12.71
Bartlett's X2		19.802	16.729	12.209	10.374	13.833	18.906	21.628
P(Bartlett's X2)		0.18	0.335	0.663	0.796	0.538	0.218	0.118

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

University of Georgia

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	Apr-25-08	Apr-25-08	Apr-25-08	Apr-25-08	Apr-25-08	Apr-25-08	Apr-25-08	
Crop Stage	57 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A	
Trt-Eval Interval	57 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A	
ARM Action Codes	T3							
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	
		Unit	Unit	Unit	Unit	Unit	Unit	
		65	66	67	68	69	70	
		65	66	67	68	69	70	
1	No Fumigant No Herbicide	23 ab	24 a	24 ab	23 abc	25 a	24 a	23 abc
2	No Fumigant Command Dual Magnum	21 a-d	22 a	23 abc	22 bcd	23 abc	22 ab	22 a-d
3	MB 50:50 (210 lb/A) (VIF) No Herbicide	21 a-d	23 a	22 bc	23 abc	22 abc	21 ab	21 a-d
4	MB 50:50 (210 lb/A) (VIF) Command Dual Magnum	21 a-d	21 a	22 abc	22 bcd	21 bc	19 b	21 a-d
5	MIDAS 50:50 (175 lb/A)VIF No Herbicide	19 d	20 a	20 bc	21 bcd	23 abc	20 ab	17 d
6	MIDAS 50:50 (175 lb/A)VIF Command Dual Magnum	19 cd	20 a	19 c	19 d	20 c	21 ab	20 bcd
7	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 No Herbicide	21 a-d	22 a	24 abc	24 abc	24 abc	24 a	22 abc
8	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 Command Dual Magnum	22 abc	21 a	23 abc	23 a-d	22 abc	21 ab	21 a-d
9	T2 (12 G) + Vapam(75 G) + Pic (150 lb) No Herbicide	20 a-d	20 a	19 c	20 cd	23 abc	19 b	21 a-d
10	T2 (12 G) + Vapam(75 G) + Pic 150 lb Command Dual Magnum	20 bcd	21 a	21 bc	22 bcd	22 abc	20 ab	20 cd
11	T-C35 (35 G) (8" inject) No Herbicide	22 abc	23 a	24 ab	25 ab	24 abc	21 ab	24 abc
12	T-C35 (35 G) (8"inject) Command Dual Magnum	22 abc	23 a	23 abc	24 abc	25 ab	24 a	23 abc
13	T2 (12 G) + Pic (150 lb) No Herbicide	23 a	23 a	26 a	27 a	26 a	21 ab	26 a
14	T2 (12 G) + Pic (150 lb) Command Dual Magnum	23 abc	23 a	23 abc	22 a-d	23 abc	21 ab	22 a-d
15	Vapam (75 G) No Herbicide	22 abc	22 a	24 ab	23 a-d	22 abc	23 ab	26 ab

University of Georgia

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	Apr-25-08	Apr-25-08	Apr-25-08	Apr-25-08	Apr-25-08	Apr-25-08	Apr-25-08	
Crop Stage								
Trt-Eval Interval	57 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A	
ARM Action Codes	T3							
Trt Treatment	Rate							
No. Name	Rate Unit	65	66	67	68	69	70	71
16 Vapam (75 G)		23 abc	23 a	22 abc	24 abc	25 ab	24 a	21 a-d
Command	1 QT/A							
Dual Magnum	1 PT/A							
LSD (P=.05)		2.8	3.6	3.6	3.7	3.7	3.6	4.6
Standard Deviation		2.0	2.5	2.5	2.6	2.6	2.5	3.2
CV		9.15	11.46	11.39	11.51	11.19	11.79	14.74
Bartlett's X2		16.285	14.856	27.972	31.997	18.05	22.305	10.079
P(Bartlett's X2)		0.363	0.462	0.022*	0.006*	0.26	0.10	0.815

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

Column 57: T3 = @AVG([C55].[C64])

University of Georgia

Weed Code	plant 7 CPSAN	plant 8 CPSAN	plant 9 CPSAN	plant 10 CPSAN	plant av CPSAN	AVG20PLA CPSAN	plant 1 CPSAN		
Crop Code	right	right	right	right	right	both	left		
Part Rated	ht	ht	ht	ht	ht	ht	ht		
Rating Data Type	cm	cm	cm	cm	cm	cm	cm		
Rating Unit	Apr-25-08	Apr-25-08	Apr-25-08	Apr-25-08	Apr-25-08	Apr-25-08	May-05-08		
Rating Date	57 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A	67 DA-A		
Crop Stage									
Trt-Eval Interval									
ARM Action Codes					T4	T21			
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit							
1	No Fumigant No Herbicide		72 a	73 abc	74 ab	75 ab	76 ab	77 ab	79 a
2	No Fumigant Command Dual Magnum	1 QT/A 1 PT/A	21 abc	22 bc	21 ab	24 ab	22 a-f	22 a-e	34 a
3	MB 50:50 (210 lb/A) (VIF) No Herbicide		22 abc	24 ab	23 ab	23 ab	22 a-f	22 a-e	33 a
4	MB 50:50 (210 lb/A) (VIF) Command Dual Magnum	1 QT/A 1 PT/A	21 abc	19 bc	20 ab	21 abc	21 b-f	21 b-e	32 a
5	MIDAS 50:50 (175 lb/A)VIF No Herbicide		18 c	19 c	21 ab	18 c	20 f	19 e	32 a
6	MIDAS 50:50 (175 lb/A)VIF Command Dual Magnum	1 QT/A 1 PT/A	19 bc	20 bc	19 b	21 abc	20 ef	20 de	31 a
7	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 No Herbicide		21 abc	23 abc	22 ab	24 a	23 a-e	22 a-d	34 a
8	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 Command Dual Magnum	1 QT/A 1 PT/A	21 abc	21 bc	21 ab	22 abc	22 b-f	22 a-e	33 a
9	T2 (12 G) + Vapam(75 G) + Pic (150 lb) No Herbicide		21 abc	19 bc	20 ab	20 abc	20 def	20 cde	32 a
10	T2 (12 G) + Vapam(75 G) + Pic 150 lb Command Dual Magnum	1 QT/A 1 PT/A	21 abc	21 bc	20 ab	19 bc	21 c-f	20 cde	32 a
11	T-C35 (35 G) (8" inject) No Herbicide		25 a	23 abc	25 a	23 ab	24 abc	23 abc	37 a
12	T-C35 (35 G) (8"inject) Command Dual Magnum	1 QT/A 1 PT/A	23 abc	22 bc	23 ab	24 ab	23 a-d	23 abc	33 a
13	T2 (12 G) + Pic (150 lb) No Herbicide		26 a	27 a	25 ab	25 a	25 a	24 a	36 a
14	T2 (12 G) + Pic (150 lb) Command Dual Magnum	1 QT/A 1 PT/A	21 abc	22 bc	22 ab	20 abc	22 a-f	22 a-d	35 a
15	Vapam (75 G) No Herbicide		24 ab	24 ab	25 a	22 abc	23 a-d	23 abc	34 a

University of Georgia

Weed Code	plant 7	plant 8	plant 9	plant 10	plant av	AVG20PLA	plant 1
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated	right	right	right	right	right	both	left
Rating Data Type	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm
Rating Date	Apr-25-08	Apr-25-08	Apr-25-08	Apr-25-08	Apr-25-08	Apr-25-08	May-05-08
Crop Stage							
Trt-Eval Interval	57 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A	67 DA-A
ARM Action Codes					T4	T21	
Trt Treatment	Rate						
No. Name	Rate Unit	72	73	74	75	76	77
16 Vapam (75 G)		22 abc	21 bc	21 ab	24 ab	23 a-f	23 abc
Command	1 QT/A						35 a
Dual Magnum	1 PT/A						
LSD (P=.05)		4.7	3.8	5.0	4.5	2.8	2.4
Standard Deviation		3.3	2.6	3.5	3.1	2.0	1.7
CV		14.87	12.16	16.06	14.38	8.9	7.71
Bartlett's X2		26.756	9.434	21.572	17.37	25.241	15.925
P(Bartlett's X2)		0.031*	0.854	0.12	0.297	0.047*	0.387

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

Column 68: T4 = @AVG([C66].[C75])

Column 69: T21 = ([C65]+[C76])/2

University of Georgia

Weed Code	plant 2 CPSAN	plant 3 CPSAN	plant 4 CPSAN	plant 5 CPSAN	plant 6 CPSAN	plant 7 CPSAN	plant 8 CPSAN			
Crop Code										
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	May-05-08	May-05-08	May-05-08	May-05-08	May-05-08	May-05-08	May-05-08			
Crop Stage										
Trt-Eval Interval	67 DA-A	67 DA-A	67 DA-A	67 DA-A	67 DA-A	67 DA-A	67 DA-A			
ARM Action Codes										
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate			
No.	Name	Rate	Unit	80	81	82	83	84	85	86
1	No Fumigant No Herbicide			32 ab	36 abc	36 abc	35 abc	36 ab	34 ab	34 a-d
2	No Fumigant Command Dual Magnum	1 QT/A 1 PT/A		31 ab	32 a-d	35 a-d	33 a-e	31 ab	33 ab	30 cde
3	MB 50:50 (210 lb/A) (VIF) No Herbicide			33 ab	30 cd	33 a-d	31 b-e	34 ab	34 ab	36 a-d
4	MB 50:50 (210 lb/A) (VIF) Command Dual Magnum	1 QT/A 1 PT/A		34 ab	32 a-d	31 a-d	29 def	31 ab	31 abc	30 cde
5	MIDAS 50:50 (175 lb/A)VIF No Herbicide			32 ab	30 bcd	31 a-d	31 cde	30 ab	26 c	25 e
6	MIDAS 50:50 (175 lb/A)VIF Command Dual Magnum	1 QT/A 1 PT/A		30 ab	30 bcd	29 cd	29 ef	31 ab	29 abc	31 bcd
7	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 No Herbicide			32 ab	33 a-d	33 a-d	34 a-d	34 ab	34 ab	34 a-d
8	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 Command Dual Magnum	1 QT/A 1 PT/A		33 ab	32 a-d	31 a-d	33 a-e	32 ab	33 ab	32 a-d
9	T2 (12 G) + Vapam(75 G) + Pic (150 lb) No Herbicide			33 ab	31 bcd	30 bcd	32 b-e	32 ab	31 abc	30 cde
10	T2 (12 G) + Vapam(75 G) + Pic 150 lb Command Dual Magnum	1 QT/A 1 PT/A		29 b	29 d	29 d	25 f	29 b	28 bc	29 de
11	T-C35 (35 G) (8" inject) No Herbicide			35 ab	34 a-d	36 ab	34 a-d	37 a	35 a	39 a
12	T-C35 (35 G) (8"inject) Command Dual Magnum	1 QT/A 1 PT/A		35 ab	37 ab	34 a-d	37 a	34 ab	34 ab	32 bcd
13	T2 (12 G) + Pic (150 lb) No Herbicide			34 ab	38 a	37 a	36 ab	35 ab	32 abc	37 ab
14	T2 (12 G) + Pic (150 lb) Command Dual Magnum	1 QT/A 1 PT/A		35 ab	36 abc	32 a-d	33 a-e	32 ab	35 a	35 a-d
15	Vapam (75 G) No Herbicide			35 ab	34 a-d	35 a-d	34 a-d	33 ab	34 ab	35 a-d

University of Georgia

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	May-05-08	May-05-08	May-05-08	May-05-08	May-05-08	May-05-08	May-05-08	
Crop Stage								
Trt-Eval Interval	67 DA-A	67 DA-A	67 DA-A	67 DA-A	67 DA-A	67 DA-A	67 DA-A	
ARM Action Codes								
Trt Treatment	Rate							
No. Name	Rate Unit	80	81	82	83	84	85	86
16 Vapam (75 G)		37 a	36 abc	32 a-d	37 ab	37 a	35 a	36 abc
Command	1 QT/A							
Dual Magnum	1 PT/A							
LSD (P=.05)		5.9	5.4	5.3	4.6	6.0	5.7	5.6
Standard Deviation		4.1	3.8	3.7	3.2	4.2	4.0	3.9
CV		12.53	11.56	11.37	9.96	12.8	12.41	11.95
Bartlett's X2		15.925	13.398	27.116	23.487	18.381	20.731	17.894
P(Bartlett's X2)		0.387	0.572	0.028*	0.074	0.243	0.146	0.268

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

University of Georgia

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	May-05-08	May-05-08	May-05-08	May-05-08	May-05-08	May-05-08	May-05-08		
Crop Stage									
Trt-Eval Interval	67 DA-A	67 DA-A	67 DA-A	67 DA-A	67 DA-A	67 DA-A	67 DA-A		
ARM Action Codes				T5					
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit							
			87	88	89	90	91	92	93
1	No Fumigant No Herbicide		36 a	34 abc	35 ab	35 abc	34 abc	38 a	37 a
2	No Fumigant Command Dual Magnum	1 QT/A 1 PT/A	33 abc	31 bc	32 a-e	35 abc	36 ab	36 ab	35 abc
3	MB 50:50 (210 lb/A) (VIF) No Herbicide		33 abc	34 abc	33 a-e	36 abc	35 abc	35 ab	35 abc
4	MB 50:50 (210 lb/A) (VIF) Command Dual Magnum	1 QT/A 1 PT/A	29 bc	28 c	31 cde	35 abc	34 abc	33 a-d	33 a-d
5	MIDAS 50:50 (175 lb/A)VIF No Herbicide		28 c	29 c	29 e	26 d	25 e	27 d	27 e
6	MIDAS 50:50 (175 lb/A)VIF Command Dual Magnum	1 QT/A 1 PT/A	30 abc	28 c	30 de	27 d	26 de	27 d	29 de
7	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 No Herbicide		32 abc	33 bc	33 a-e	33 abc	33 abc	31 bcd	36 ab
8	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 Command Dual Magnum	1 QT/A 1 PT/A	34 abc	32 bc	33 a-e	34 abc	34 abc	34 abc	31 b-e
9	T2 (12 G) + Vapam(75 G) + Pic (150 lb) No Herbicide		32 abc	30 bc	31 b-e	31 c	30 b-e	29 cd	32 a-e
10	T2 (12 G) + Vapam(75 G) + Pic 150 lb Command Dual Magnum	1 QT/A 1 PT/A	30 bc	34 abc	29 e	31 c	29 cde	29 cd	29 cde
11	T-C35 (35 G) (8" inject) No Herbicide		34 abc	39 a	36 a	34 abc	36 ab	36 ab	37 a
12	T-C35 (35 G) (8"inject) Command Dual Magnum	1 QT/A 1 PT/A	33 abc	36 ab	34 abc	32 bc	31 a-d	34 abc	32 a-e
13	T2 (12 G) + Pic (150 lb) No Herbicide		35 ab	35 ab	35 ab	37 ab	38 a	36 ab	36 a
14	T2 (12 G) + Pic (150 lb) Command Dual Magnum	1 QT/A 1 PT/A	33 abc	33 bc	34 a-d	34 abc	35 abc	36 ab	36 ab
15	Vapam (75 G) No Herbicide		34 abc	36 ab	34 abc	36 abc	36 ab	37 a	35 abc

University of Georgia

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	May-05-08	May-05-08	May-05-08	May-05-08	May-05-08	May-05-08	May-05-08	
Crop Stage								
Trt-Eval Interval	67 DA-A	67 DA-A	67 DA-A	67 DA-A	67 DA-A	67 DA-A	67 DA-A	
ARM Action Codes				T5				
Trt Treatment	Rate							
No. Name	Rate Unit	87	88	89	90	91	92	93
16 Vapam (75 G)		34 ab	34 abc	35 ab	38 a	36 ab	36 ab	36 a
Command	1 QT/A							
Dual Magnum	1 PT/A							
LSD (P=.05)		5.3	5.3	3.6	4.1	5.5	5.1	4.6
Standard Deviation		3.7	3.7	2.5	2.9	3.9	3.5	3.2
CV		11.54	11.34	7.63	8.74	11.7	10.63	9.64
Bartlett's X2		29.536	26.954	19.443	17.151	17.328	15.564	13.841
P(Bartlett's X2)		0.014*	0.029*	0.194	0.31	0.30	0.412	0.538

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

Column 80: T5 = @AVG([C79].[C88])

University of Georgia

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	May-05-08	May-05-08	May-05-08	May-05-08	May-05-08	May-05-08	May-05-08	
Crop Stage								
Trt-Eval Interval	67 DA-A	67 DA-A	67 DA-A	67 DA-A	67 DA-A	67 DA-A	67 DA-A	
ARM Action Codes							T6	
Trt Treatment	Rate							
No. Name	Rate Unit	94	95	96	97	98	99	100
16 Vapam (75 G)		36 ab	34 abc	36 ab	35 a-d	33 abc	32 a-d	35 a
Command	1 QT/A							
Dual Magnum	1 PT/A							
LSD (P=.05)		5.5	5.5	5.8	5.7	6.8	6.2	4.2
Standard Deviation		3.8	3.8	4.1	4.0	4.8	4.3	3.0
CV		11.54	11.68	12.26	11.9	14.49	13.06	8.97
Bartlett's X2		17.12	20.744	18.346	8.391	8.724	11.117	13.885
P(Bartlett's X2)		0.312	0.145	0.245	0.907	0.891	0.744	0.534

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

Column 91: T6 = @AVG([C90].[C99])

University of Georgia

Weed Code	AVG20PLA	harv 1	harv 1	harv 2	harv 2	harv 3	harv 3
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated	both	fruit	fruit	fruit	fruit	fruit	fruit
Rating Data Type	ht	#	wt/lb	#	wt/lb	#	wt/lb
Rating Unit	cm	per plot	per plot	per plot	per plot	per plot	per plot
Rating Date	May-05-08	May-27-08	May-27-08	Jun-02-08	Jun-02-08	Jun-10-08	Jun-10-08
Crop Stage							
Trt-Eval Interval	67 DA-A	89 DA-A	89 DA-A	95 DA-A	95 DA-A	103 DA-A	103 DA-A
ARM Action Codes	T22						
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate
Unit	Rate Unit	Unit	Unit	Unit	Unit	Unit	Unit
		101	103	104	105	106	107
1	No Fumigant No Herbicide	36 a	44 abc	20 ab	122 a	52 a	99 d
2	No Fumigant Command Dual Magnum	33 ab	61 a	25 a	99 a	42 a	133 cd
3	MB 50:50 (210 lb/A) (VIF) No Herbicide	34 ab	32 bcd	14 abc	110 a	46 a	189 a
4	MB 50:50 (210 lb/A) (VIF) Command Dual Magnum	32 abc	33 bcd	14 bc	119 a	46 a	169 abc
5	MIDAS 50:50 (175 lb/A)VIF No Herbicide	28 d	30 bcd	12 bc	100 a	39 a	170 abc
6	MIDAS 50:50 (175 lb/A)VIF Command Dual Magnum	29 cd	28 bcd	11 bc	110 a	45 a	170 abc
7	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 No Herbicide	33 ab	39 a-d	17 abc	134 a	58 a	161 abc
8	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 Command Dual Magnum	33 ab	40 a-d	16 abc	129 a	54 a	171 abc
9	T2 (12 G) + Vapam(75 G) + Pic (150 lb) No Herbicide	30 bcd	18 d	8 c	121 a	47 a	172 abc
10	T2 (12 G) + Vapam(75 G) + Pic 150 lb Command Dual Magnum	29 cd	20 cd	8 c	135 a	51 a	171 abc
11	T-C35 (35 G) (8" inject) No Herbicide	36 a	31 bcd	14 bc	132 a	55 a	159 abc
12	T-C35 (35 G) (8"inject) Command Dual Magnum	33 ab	34 bcd	15 abc	118 a	53 a	146 abc
13	T2 (12 G) + Pic (150 lb) No Herbicide	36 a	40 a-d	18 abc	110 a	47 a	142 bc
14	T2 (12 G) + Pic (150 lb) Command Dual Magnum	34 a	49 ab	21 ab	116 a	49 a	146 abc
15	Vapam (75 G) No Herbicide	35 a	46 ab	21 ab	108 a	47 a	179 ab

University of Georgia

Weed Code	AVG20PLA	harv 1	harv 1	harv 2	harv 2	harv 3	harv 3
Crop Code	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN	CPSAN
Part Rated	both	fruit	fruit	fruit	fruit	fruit	fruit
Rating Data Type	ht	#	wt/lb	#	wt/lb	#	wt/lb
Rating Unit	cm	per plot	per plot	per plot	per plot	per plot	per plot
Rating Date	May-05-08	May-27-08	May-27-08	Jun-02-08	Jun-02-08	Jun-10-08	Jun-10-08
Crop Stage							
Trt-Eval Interval	67 DA-A	89 DA-A	89 DA-A	95 DA-A	95 DA-A	103 DA-A	103 DA-A
ARM Action Codes	T22						
Trt Treatment	Rate						
No. Name	Rate Unit	101	103	104	105	106	107
16 Vapam (75 G)		35 a	41 a-d	18 abc	135 a	57 a	172 abc
Command	1 QT/A						
Dual Magnum	1 PT/A						
LSD (P=.05)		3.4	20.9	9.3	37.2	16.4	36.1
Standard Deviation		2.4	14.6	6.5	26.1	11.5	25.2
CV		7.21	39.99	41.24	22.02	23.32	15.85
Bartlett's X2		28.742	17.587	20.86	25.541	22.304	9.282
P(Bartlett's X2)		0.017*	0.285	0.141	0.043*	0.10	0.862

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

Column 92: T22 = ([C89]+[C100])/2

University of Georgia

Weed Code	harv 4 CPSAN	harv 4 CPSAN	harv 1-2 CPSAN	harv 1-2 CPSAN	harv 1-4 CPSAN	harv 1-4 CPSAN	plant 1 CUMSA	plant 2 CUMSA	
Crop Code	fruit	fruit	fruit	fruit	fruit	fruit	left	left	
Part Rated	#	wt/lb	#	wt/lb	#	wt/lb	ht	ht	
Rating Data Type	per plot	per plot	per plot	per plot	per plot	per plot	cm	cm	
Rating Unit	Jun-17-08	Jun-17-08					Aug-29-08	Aug-29-08	
Rating Date	110 DA-A	110 DA-A					183 DA-A	183 DA-A	
Crop Stage			T7	T8	T9	T10			
Trt-Eval Interval									
ARM Action Codes									
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
		Unit							
109			110	111	112	113	114	116	117
1	No Fumigant No Herbicide	86 d	31 e	166 a	72 a	351 e	145 c	21 a	19 b
2	No Fumigant Command Dual Magnum	106 d	40 e	159 a	67 a	399 de	162 bc	24 a	23 ab
3	MB 50:50 (210 lb/A) (VIF) No Herbicide	204 bc	82 a-d	143 a	60 a	535 abc	218 a	33 a	23 ab
4	MB 50:50 (210 lb/A) (VIF) Command Dual Magnum	227 ab	87 abc	151 a	60 a	548 abc	215 a	23 a	24 ab
5	MIDAS 50:50 (175 lb/A)VIF No Herbicide	238 ab	102 a	129 a	51 a	538 abc	222 a	23 a	20 b
6	MIDAS 50:50 (175 lb/A)VIF Command Dual Magnum	234 ab	80 bcd	138 a	56 a	542 abc	203 ab	27 a	23 ab
7	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 No Herbicide	176 c	72 cd	172 a	75 a	509 abc	213 a	34 a	28 ab
8	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 Command Dual Magnum	191 bc	75 bcd	168 a	69 a	530 abc	218 a	27 a	28 ab
9	T2 (12 G) + Vapam(75 G) + Pic (150 lb) No Herbicide	264 a	96 ab	139 a	54 a	575 a	218 a	26 a	35 a
10	T2 (12 G) + Vapam(75 G) + Pic 150 lb Command Dual Magnum	234 ab	89 abc	155 a	59 a	560 ab	215 a	30 a	30 ab
11	T-C35 (35 G) (8" inject) No Herbicide	169 c	63 d	162 a	69 a	490 a-d	198 ab	27 a	24 ab
12	T-C35 (35 G) (8"inject) Command Dual Magnum	168 c	67 cd	152 a	68 a	466 bcd	201 ab	24 a	18 b
13	T2 (12 G) + Pic (150 lb) No Herbicide	159 c	67 cd	149 a	65 a	450 cd	188 ab	32 a	23 ab
14	T2 (12 G) + Pic (150 lb) Command Dual Magnum	168 c	69 cd	165 a	70 a	479 a-d	200 ab	28 a	22 ab
15	Vapam (75 G) No Herbicide	190 bc	74 bcd	154 a	68 a	522 abc	214 a	29 a	25 ab

University of Georgia

Weed Code	harv 4 CPSAN	harv 4 CPSAN	harv 1-2 CPSAN	harv 1-2 CPSAN	harv 1-4 CPSAN	harv 1-4 CPSAN	plant 1 CUMSA	plant 2 CUMSA	
Crop Code	fruit	fruit	fruit	fruit	fruit	fruit	left	left	
Part Rated	#	wt/lb	#	wt/lb	#	wt/lb	ht	ht	
Rating Data Type	per plot	per plot	per plot	per plot	per plot	per plot	cm	cm	
Rating Unit	Jun-17-08	Jun-17-08					Aug-29-08	Aug-29-08	
Rating Date									
Crop Stage	110 DA-A	110 DA-A					183 DA-A	183 DA-A	
Trt-Eval Interval			T7	T8	T9	T10			
ARM Action Codes									
Trt Treatment	Rate								
No. Name	Rate Unit	109	110	111	112	113	114	116	117
16 Vapam (75 G)		196 bc	75 bcd	177 a	75 a	545 abc	220 a	27 a	26 ab
Command	1 QT/A								
Dual Magnum	1 PT/A								
LSD (P=.05)	45.0	19.1	45.1	20.9	85.2	36.2	10.7	11.2	
Standard Deviation	31.5	13.4	31.5	14.6	59.6	25.4	7.5	7.8	
CV	16.74	18.27	20.37	22.52	11.87	12.48	27.39	32.2	
Bartlett's X2	18.566	14.404	21.941	25.289	29.385	31.683	15.201	14.496	
P(Bartlett's X2)	0.234	0.495	0.109	0.046*	0.014*	0.007*	0.437	0.488	

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

Column 101: T7 = ([C103]+[C105])

Column 102: T8 = ([C104]+[C106])

Column 103: T9 = ([C103]+[C105]+[C107]+[C109])

Column 104: T10 = ([C104]+[C106]+[C108]+[C110])

University of Georgia

Weed Code	plant 3 CUMSA	plant 4 CUMSA	plant 5 CUMSA	plant 6 CUMSA	plant 7 CUMSA	plant 8 CUMSA	plant 9 CUMSA	
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-29-08	Aug-29-08	Aug-29-08	Aug-29-08	Aug-29-08	Aug-29-08	Aug-29-08	
Rating Date								
Crop Stage								
Trt-Eval Interval	183 DA-A	183 DA-A	183 DA-A	183 DA-A	183 DA-A	183 DA-A	183 DA-A	
ARM Action Codes								
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	
		Unit	Unit	Unit	Unit	Unit	Unit	
		118	119	120	121	122	123	
							124	
1	No Fumigant No Herbicide	22 b-e	22 b	23 a	24 abc	25 a	26 abc	24 a
2	No Fumigant Command Dual Magnum	18 e	20 b	24 a	23 abc	25 a	16 c	22 a
3	MB 50:50 (210 lb/A) (VIF) No Herbicide	27 a-e	26 ab	27 a	23 abc	31 a	30 ab	29 a
4	MB 50:50 (210 lb/A) (VIF) Command Dual Magnum	22 cde	21 b	30 a	19 bc	24 a	21 abc	22 a
5	MIDAS 50:50 (175 lb/A)VIF No Herbicide	28 a-e	22 b	25 a	32 ab	28 a	32 a	31 a
6	MIDAS 50:50 (175 lb/A)VIF Command Dual Magnum	31 abc	19 b	27 a	23 abc	27 a	21 abc	22 a
7	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 No Herbicide	33 ab	26 ab	31 a	28 abc	21 a	31 a	31 a
8	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 Command Dual Magnum	20 de	29 ab	29 a	30 ab	24 a	21 abc	25 a
9	T2 (12 G) + Vapam(75 G) + Pic (150 lb) No Herbicide	31 abc	35 a	23 a	33 a	22 a	29 abc	27 a
10	T2 (12 G) + Vapam(75 G) + Pic 150 lb Command Dual Magnum	28 a-e	26 ab	28 a	25 abc	28 a	26 abc	29 a
11	T-C35 (35 G) (8" inject) No Herbicide	29 a-d	24 ab	28 a	21 abc	27 a	25 abc	32 a
12	T-C35 (35 G) (8"inject) Command Dual Magnum	25 a-e	19 b	22 a	16 c	24 a	16 c	25 a
13	T2 (12 G) + Pic (150 lb) No Herbicide	34 a	19 b	26 a	26 abc	34 a	21 abc	29 a
14	T2 (12 G) + Pic (150 lb) Command Dual Magnum	28 a-e	34 a	25 a	24 abc	24 a	27 abc	25 a
15	Vapam (75 G) No Herbicide	26 a-e	24 ab	28 a	24 abc	28 a	25 abc	28 a

University of Georgia

Weed Code	plant 3	plant 4	plant 5	plant 6	plant 7	plant 8	plant 9
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
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	Aug-29-08	Aug-29-08	Aug-29-08	Aug-29-08	Aug-29-08	Aug-29-08	Aug-29-08
Crop Stage							
Trt-Eval Interval	183 DA-A	183 DA-A	183 DA-A	183 DA-A	183 DA-A	183 DA-A	183 DA-A
ARM Action Codes							
Trt Treatment							
No. Name	Rate						
	Rate Unit	118	119	120	121	122	123
16 Vapam (75 G)		29 a-d	19 b	23 a	21 abc	28 a	17 bc
Command	1 QT/A						
Dual Magnum	1 PT/A						
LSD (P=.05)		8.8	10.2	12.2	10.8	12.0	11.4
Standard Deviation		6.2	7.1	8.5	7.6	8.4	8.0
CV		22.98	29.89	32.69	31.11	32.15	33.42
Bartlett's X2		11.318	14.308	14.009	17.695	12.168	23.733
P(Bartlett's X2)		0.73	0.502	0.525	0.279	0.666	0.07
							9.9
							6.9
							25.92
							17.098
							0.313

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

University of Georgia

Weed Code	plant 10	plant av	plant 1	plant 2	plant 3	plant 4	plant 5		
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA		
Part Rated	left	left	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-29-08	Aug-29-08	Aug-29-08	Aug-29-08	Aug-29-08	Aug-29-08	Aug-29-08		
Crop Stage									
Trt-Eval Interval	183 DA-A	183 DA-A	183 DA-A	183 DA-A	183 DA-A	183 DA-A	183 DA-A		
ARM Action Codes		T11							
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit	Unit	Unit	Unit	Unit	Unit		
		125	126	127	128	129	130		
							131		
1	No Fumigant No Herbicide		26 abc	23 a-d	23 ab	23 b	24 ab	28 a	19 b
2	No Fumigant Command Dual Magnum	1 QT/A 1 PT/A	20 abc	21 cd	23 ab	22 b	22 b	21 a	19 b
3	MB 50:50 (210 lb/A) (VIF) No Herbicide		30 a	28 ab	26 ab	19 b	26 ab	31 a	30 ab
4	MB 50:50 (210 lb/A) (VIF) Command Dual Magnum	1 QT/A 1 PT/A	17 bc	22 bcd	22 b	21 b	22 b	23 a	24 ab
5	MIDAS 50:50 (175 lb/A)VIF No Herbicide		25 abc	26 abc	27 ab	25 b	31 ab	23 a	26 ab
6	MIDAS 50:50 (175 lb/A)VIF Command Dual Magnum	1 QT/A 1 PT/A	25 abc	24 a-d	24 ab	21 b	23 ab	23 a	23 ab
7	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 No Herbicide		28 ab	29 a	31 ab	27 b	35 a	27 a	28 ab
8	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 Command Dual Magnum	1 QT/A 1 PT/A	29 a	26 a-d	26 ab	22 b	20 b	28 a	24 ab
9	T2 (12 G) + Vapam(75 G) + Pic (150 lb) No Herbicide		25 abc	29 a	31 ab	39 a	27 ab	30 a	29 ab
10	T2 (12 G) + Vapam(75 G) + Pic 150 lb Command Dual Magnum	1 QT/A 1 PT/A	27 ab	28 ab	35 a	27 b	28 ab	25 a	33 a
11	T-C35 (35 G) (8" inject) No Herbicide		20 abc	26 a-d	26 ab	20 b	24 ab	21 a	28 ab
12	T-C35 (35 G) (8"inject) Command Dual Magnum	1 QT/A 1 PT/A	15 c	21 d	24 ab	20 b	21 b	17 a	24 ab
13	T2 (12 G) + Pic (150 lb) No Herbicide		29 a	27 abc	29 ab	22 b	26 ab	26 a	34 a
14	T2 (12 G) + Pic (150 lb) Command Dual Magnum	1 QT/A 1 PT/A	31 a	27 abc	23 ab	23 b	24 ab	28 a	24 ab
15	Vapam (75 G) No Herbicide		27 ab	26 a-d	28 ab	28 b	30 ab	31 a	22 ab

University of Georgia

Weed Code	plant 10	plant av	plant 1	plant 2	plant 3	plant 4	plant 5
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated	left	left	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-29-08	Aug-29-08	Aug-29-08	Aug-29-08	Aug-29-08	Aug-29-08	Aug-29-08
Crop Stage							
Trt-Eval Interval	183 DA-A	183 DA-A	183 DA-A	183 DA-A	183 DA-A	183 DA-A	183 DA-A
ARM Action Codes		T11					
Trt Treatment	Rate						
No. Name	Rate Unit	125	126	127	128	129	130
16 Vapam (75 G)		28 ab	24 a-d	25 ab	19 b	24 ab	19 a
Command	1 QT/A						
Dual Magnum	1 PT/A						
LSD (P=.05)		10.2	5.0	10.0	8.4	10.5	13.3
Standard Deviation		7.2	3.5	7.0	5.9	7.3	9.3
CV		28.57	13.73	26.56	24.96	28.87	37.18
Bartlett's X2		14.937	36.355	13.046	7.689	15.008	11.103
P(Bartlett's X2)		0.456	0.002*	0.599	0.936	0.451	0.745
							10.8
							7.6
							29.38
							29.027
							0.016*

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

Column 115: T11 = @AVG([C116].[C125])

University of Georgia

Weed Code	plant 6 CUMSA	plant 7 CUMSA	plant 8 CUMSA	plant 9 CUMSA	plant 10 CUMSA	plant av CUMSA	AVG20PLA CUMSA		
Crop Code	right	right	right	right	right	right	both		
Part Rated	ht	ht	ht	ht	ht	ht	ht		
Rating Data Type	cm	cm	cm	cm	cm	cm	cm		
Rating Unit	Aug-29-08	Aug-29-08	Aug-29-08	Aug-29-08	Aug-29-08	Aug-29-08	Aug-29-08		
Rating Date	183 DA-A	183 DA-A	183 DA-A	183 DA-A	183 DA-A	183 DA-A	183 DA-A		
Crop Stage									
Trt-Eval Interval						T12	T23		
ARM Action Codes									
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit							
132	133	134	135	136	137	138			
1	No Fumigant No Herbicide		25 a	22 cde	27 a	24 abc	25 ab	24 b-f	24 b-f
2	No Fumigant Command Dual Magnum	1 QT/A 1 PT/A	20 a	17 e	18 a	19 c	19 b	20 f	21 f
3	MB 50:50 (210 lb/A) (VIF) No Herbicide		25 a	30 abc	27 a	33 a	18 b	26 a-e	27 a-d
4	MB 50:50 (210 lb/A) (VIF) Command Dual Magnum	1 QT/A 1 PT/A	24 a	24 b-e	19 a	23 abc	22 ab	22 def	22 def
5	MIDAS 50:50 (175 lb/A)VIF No Herbicide		25 a	39 a	30 a	33 a	25 ab	28 abc	27 a-d
6	MIDAS 50:50 (175 lb/A)VIF Command Dual Magnum	1 QT/A 1 PT/A	22 a	19 de	22 a	24 abc	24 ab	22 c-f	23 c-f
7	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 No Herbicide		28 a	31 abc	27 a	22 abc	31 ab	29 ab	29 ab
8	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 Command Dual Magnum	1 QT/A 1 PT/A	27 a	25 b-e	30 a	24 abc	32 a	26 a-e	26 a-e
9	T2 (12 G) + Vapam(75 G) + Pic (150 lb) No Herbicide		30 a	30 abc	31 a	30 abc	30 ab	31 a	30 a
10	T2 (12 G) + Vapam(75 G) + Pic 150 lb Command Dual Magnum	1 QT/A 1 PT/A	26 a	32 ab	29 a	31 ab	25 ab	29 ab	28 abc
11	T-C35 (35 G) (8" inject) No Herbicide		19 a	33 ab	30 a	26 abc	20 ab	25 b-f	25 a-f
12	T-C35 (35 G) (8"inject) Command Dual Magnum	1 QT/A 1 PT/A	24 a	19 de	21 a	20 bc	20 ab	21 ef	21 ef
13	T2 (12 G) + Pic (150 lb) No Herbicide		24 a	25 b-e	20 a	19 c	22 ab	25 b-f	26 a-e
14	T2 (12 G) + Pic (150 lb) Command Dual Magnum	1 QT/A 1 PT/A	22 a	21 cde	28 a	19 c	26 ab	24 b-f	25 a-f
15	Vapam (75 G) No Herbicide		27 a	31 abc	24 a	31 ab	25 ab	28 a-d	27 a-d

University of Georgia

Weed Code	plant 6	plant 7	plant 8	plant 9	plant 10	plant av	AVG20PLA
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated	right	right	right	right	right	right	both
Rating Data Type	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm
Rating Date	Aug-29-08	Aug-29-08	Aug-29-08	Aug-29-08	Aug-29-08	Aug-29-08	Aug-29-08
Crop Stage							
Trt-Eval Interval	183 DA-A	183 DA-A	183 DA-A	183 DA-A	183 DA-A	183 DA-A	183 DA-A
ARM Action Codes						T12	T23
Trt Treatment	Rate						
No. Name	Rate Unit	132	133	134	135	136	137
16 Vapam (75 G)		20 a	29 bcd	23 a	32 a	22 ab	24 b-f
Command	1 QT/A						
Dual Magnum	1 PT/A						
LSD (P=.05)		10.5	8.5	11.1	10.0	10.9	5.0
Standard Deviation		7.3	5.9	7.8	7.0	7.6	3.5
CV		30.34	22.31	30.65	27.34	31.7	13.98
Bartlett's X2		11.518	41.043	11.672	13.637	10.87	30.266
P(Bartlett's X2)		0.715	0.001*	0.704	0.553	0.762	0.011*

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

Column 126: T12 = @AVG([C127].[C136])

Column 127: T23 = ([C126]+[C137])/2

University of Georgia

Weed Code	harv 1	harv1	harv 2	harv 2	harv 3	harv 3	harv 4	
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	
Part Rated	fruit	fruit	fruit	fruit	fruit	fruit	fruit	
Rating Data Type	#	wt/lb	#	wt/lb	#	wt/lb	#	
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot	
Rating Date	Sep-11-08	Sep-11-08	Sep-15-08	Sep-15-08	Sep-17-08	Sep-17-08	Sep-19-08	
Crop Stage								
Trt-Eval Interval	196 DA-A	196 DA-A	200 DA-A	200 DA-A	202 DA-A	202 DA-A	204 DA-A	
ARM Action Codes								
Trt Treatment	Rate							
No. Name	Rate Unit	140	141	142	143	144	145	146
1 No Fumigant No Herbicide		0 b	0 d	1 b	1 c	0 d	0 c	0 e
2 No Fumigant Command Dual Magnum	1 QT/A 1 PT/A	1 b	0 cd	3 ab	1 bc	1 bcd	1 bc	3 cde
3 MB 50:50 (210 lb/A) (VIF) No Herbicide		1 b	1 bcd	5 ab	3 abc	3 a-d	1 abc	4 cde
4 MB 50:50 (210 lb/A) (VIF) Command Dual Magnum	1 QT/A 1 PT/A	1 b	1 bcd	8 ab	4 abc	5 ab	2 abc	3 cde
5 MIDAS 50:50 (175 lb/A)VIF No Herbicide		3 ab	2 a-d	6 ab	3 abc	3 a-d	1 abc	5 b-e
6 MIDAS 50:50 (175 lb/A)VIF Command Dual Magnum	1 QT/A 1 PT/A	1 b	0 cd	7 ab	3 abc	4 abc	2 abc	4 cde
7 T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 No Herbicide		7 a	3 a	7 ab	4 abc	5 ab	2 ab	7 a-d
8 T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 Command Dual Magnum	1 QT/A 1 PT/A	3 ab	1 a-d	9 a	5 ab	5 ab	3 a	6 bcd
9 T2 (12 G) + Vapam(75 G) + Pic (150 lb) No Herbicide		5 ab	3 ab	9 a	6 a	5 a	3 a	10 ab
10 T2 (12 G) + Vapam(75 G) + Pic 150 lb Command Dual Magnum	1 QT/A 1 PT/A	4 ab	2 a-d	8 ab	5 abc	3 a-d	1 abc	8 abc
11 T-C35 (35 G) (8" inject) No Herbicide		2 b	1 bcd	3 ab	1 bc	2 a-d	1 abc	3 cde
12 T-C35 (35 G) (8"inject) Command Dual Magnum	1 QT/A 1 PT/A	3 ab	1 a-d	4 ab	2 abc	2 a-d	1 abc	5 b-e
13 T2 (12 G) + Pic (150 lb) No Herbicide		1 b	0 cd	3 ab	2 abc	1 cd	0 bc	2 de
14 T2 (12 G) + Pic (150 lb) Command Dual Magnum	1 QT/A 1 PT/A	5 ab	2 abc	6 ab	3 abc	2 a-d	1 abc	5 b-e
15 Vapam (75 G) No Herbicide		8 a	3 a	6 ab	3 abc	3 a-d	1 abc	12 a

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Weed Code	harv 1	harv1	harv 2	harv 2	harv 3	harv 3	harv 4
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated	fruit	fruit	fruit	fruit	fruit	fruit	fruit
Rating Data Type	#	wt/lb	#	wt/lb	#	wt/lb	#
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot
Rating Date	Sep-11-08	Sep-11-08	Sep-15-08	Sep-15-08	Sep-17-08	Sep-17-08	Sep-19-08
Crop Stage							
Trt-Eval Interval	196 DA-A	196 DA-A	200 DA-A	200 DA-A	202 DA-A	202 DA-A	204 DA-A
ARM Action Codes							
Trt Treatment							
No. Name							
Rate	140	141	142	143	144	145	146
Rate Unit							
16 Vapam (75 G)	7 a	3 a	8 ab	4 abc	3 a-d	1 abc	11 a
Command	1 QT/A						
Dual Magnum	1 PT/A						
LSD (P=.05)	4.3	2.0	6.2	3.5	3.2	1.9	4.7
Standard Deviation	3.0	1.4	4.3	2.4	2.2	1.3	3.3
CV	93.45	95.96	75.51	77.84	78.58	92.39	61.39
Bartlett's X2	28.312	28.266	12.905	11.128	18.14	23.238	30.85
P(Bartlett's X2)	0.013*	0.013*	0.61	0.743	0.20	0.057	0.009*

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

University of Georgia

Weed Code	harv 4 CUMSA fruit wt/lb per plot Sep-19-08	harv 5 CUMSA fruit # per plot Sep-22-08	harv 5 CUMSA fruit wt/lb per plot Sep-22-08	harv 6 CUMSA fruit # per plot Sep-24-08	harv 6 CUMSA fruit wt/lb per plot Sep-24-08	harv 7 CUMSA fruit # per plot Sep-26-08	harv 7 CUMSA fruit wt/lb per plot Sep-26-08			
Part Rated										
Rating Data Type										
Rating Unit										
Rating Date										
Crop Stage										
Trt-Eval Interval	204 DA-A	207 DA-A	207 DA-A	209 DA-A	209 DA-A	211 DA-A	211 DA-A			
ARM Action Codes										
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate			
No.	Name	Rate	Unit	147	148	149	150	151	152	153
1	No Fumigant No Herbicide			0 e	10 a	4 a	1 e	0 d	8 c	3 d
2	No Fumigant Command Dual Magnum	1 QT/A 1 PT/A		1 de	17 a	6 a	9 b-e	3 cd	10 bc	4 cd
3	MB 50:50 (210 lb/A) (VIF) No Herbicide			2 cde	21 a	8 a	13 bc	5 bc	15 bc	6 bcd
4	MB 50:50 (210 lb/A) (VIF) Command Dual Magnum	1 QT/A 1 PT/A		1 cde	26 a	8 a	16 b	5 bc	11 bc	4 cd
5	MIDAS 50:50 (175 lb/A)VIF No Herbicide			2 bcd	16 a	7 a	12 bc	5 bc	23 ab	10 ab
6	MIDAS 50:50 (175 lb/A)VIF Command Dual Magnum	1 QT/A 1 PT/A		2 cde	13 a	5 a	11 bc	4 c	29 a	12 a
7	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 No Herbicide			3 abc	24 a	9 a	10 bcd	4 cd	17 abc	9 abc
8	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 Command Dual Magnum	1 QT/A 1 PT/A		2 a-d	23 a	8 a	12 bc	4 cd	20 abc	8 a-d
9	T2 (12 G) + Vapam(75 G) + Pic (150 lb) No Herbicide			4 ab	21 a	9 a	28 a	10 a	18 abc	8 a-d
10	T2 (12 G) + Vapam(75 G) + Pic 150 lb Command Dual Magnum	1 QT/A 1 PT/A		3 a-d	23 a	10 a	24 a	8 ab	18 abc	7 a-d
11	T-C35 (35 G) (8" inject) No Herbicide			1 cde	12 a	5 a	12 bc	6 bc	8 c	3 d
12	T-C35 (35 G) (8"inject) Command Dual Magnum	1 QT/A 1 PT/A		2 cde	21 a	7 a	9 b-e	3 cd	12 bc	4 cd
13	T2 (12 G) + Pic (150 lb) No Herbicide			1 cde	17 a	6 a	2 de	1 d	11 bc	5 bcd
14	T2 (12 G) + Pic (150 lb) Command Dual Magnum	1 QT/A 1 PT/A		2 cde	22 a	9 a	6 cde	2 cd	9 c	3 d
15	Vapam (75 G) No Herbicide			4 a	22 a	10 a	12 bc	5 bc	16 bc	7 a-d

University of Georgia

Weed Code	harv 4	harv 5	harv 5	harv 6	harv 6	harv 7	harv 7
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated	fruit	fruit	fruit	fruit	fruit	fruit	fruit
Rating Data Type	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot
Rating Date	Sep-19-08	Sep-22-08	Sep-22-08	Sep-24-08	Sep-24-08	Sep-26-08	Sep-26-08
Crop Stage							
Trt-Eval Interval	204 DA-A	207 DA-A	207 DA-A	209 DA-A	209 DA-A	211 DA-A	211 DA-A
ARM Action Codes							
Trt Treatment							
No. Name							
Rate							
Rate Unit							
16 Vapam (75 G)	4 ab	22 a	8 a	9 b-e	4 cd	19 abc	9 abc
Command	1 QT/A						
Dual Magnum	1 PT/A						
LSD (P=.05)	1.9	15.0	5.9	7.1	3.2	10.6	4.7
Standard Deviation	1.3	10.5	4.1	5.0	2.2	7.4	3.3
CV	61.87	54.65	54.99	43.84	51.92	49.13	51.88
Bartlett's X2	32.721	22.237	20.109	18.741	21.921	13.332	23.716
P(Bartlett's X2)	0.005*	0.102	0.168	0.226	0.11	0.577	0.07

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

University of Georgia

Weed Code	harv 8 CUMSA	harv 8 CUMSA	harv 9 CUMSA	harv 9 CUMSA	harv 10 CUMSA	harv 10 CUMSA	harv 11 CUMSA		
Crop Code	fruit	fruit	fruit	fruit	fruit	fruit	fruit		
Part Rated	#	wt/lb	#	wt/lb	#	wt/lb	#		
Rating Data Type	per plot	per plot	per plot	per plot	per plot	per plot	per plot		
Rating Unit	Sep-29-08	Sep-29-08	Oct-01-08	Oct-01-08	Oct-03-08	Oct-03-08	Oct-06-08		
Rating Date	214 DA-A	214 DA-A	216 DA-A	216 DA-A	218 DA-A	218 DA-A	221 DA-A		
Crop Stage									
Trt-Eval Interval									
ARM Action Codes									
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit							
154	155	156	157	158	159	160			
1	No Fumigant No Herbicide		13 cde	6 cde	13 ab	6 a	12 c	5 cd	9 d
2	No Fumigant Command Dual Magnum	1 QT/A 1 PT/A	13 cde	7 cde	16 ab	8 a	18 abc	7 bcd	17 bcd
3	MB 50:50 (210 lb/A) (VIF) No Herbicide		22 a-d	12 abc	18 ab	10 a	28 abc	14 a	20 a-d
4	MB 50:50 (210 lb/A) (VIF) Command Dual Magnum	1 QT/A 1 PT/A	28 a	12 abc	16 ab	8 a	18 abc	7 bcd	23 abc
5	MIDAS 50:50 (175 lb/A)VIF No Herbicide		26 ab	13 ab	15 ab	6 a	19 abc	9 a-d	24 ab
6	MIDAS 50:50 (175 lb/A)VIF Command Dual Magnum	1 QT/A 1 PT/A	21 a-e	9 a-e	14 ab	6 a	22 abc	10 a-d	25 ab
7	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 No Herbicide		29 a	13 ab	16 ab	8 a	30 a	13 ab	20 a-d
8	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 Command Dual Magnum	1 QT/A 1 PT/A	29 a	14 a	15 ab	6 a	28 abc	12 abc	26 ab
9	T2 (12 G) + Vapam(75 G) + Pic (150 lb) No Herbicide		23 a-d	12 a-d	23 ab	11 a	26 abc	11 a-d	24 ab
10	T2 (12 G) + Vapam(75 G) + Pic 150 lb Command Dual Magnum	1 QT/A 1 PT/A	18 a-e	9 a-e	25 a	11 a	24 abc	10 a-d	30 a
11	T-C35 (35 G) (8" inject) No Herbicide		11 de	5 e	21 ab	9 a	14 bc	5 d	12 d
12	T-C35 (35 G) (8"inject) Command Dual Magnum	1 QT/A 1 PT/A	12 cde	5 de	17 ab	7 a	19 abc	7 bcd	15 bcd
13	T2 (12 G) + Pic (150 lb) No Herbicide		10 e	5 e	13 b	7 a	16 abc	7 bcd	12 cd
14	T2 (12 G) + Pic (150 lb) Command Dual Magnum	1 QT/A 1 PT/A	14 b-e	7 b-e	13 b	7 a	22 abc	10 a-d	11 d
15	Vapam (75 G) No Herbicide		26 ab	12 a-d	18 ab	8 a	28 ab	12 ab	26 ab

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Weed Code	harv 8	harv 8	harv 9	harv 9	harv 10	harv 10	harv 11
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
Part Rated	fruit	fruit	fruit	fruit	fruit	fruit	fruit
Rating Data Type	#	wt/lb	#	wt/lb	#	wt/lb	#
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot
Rating Date	Sep-29-08	Sep-29-08	Oct-01-08	Oct-01-08	Oct-03-08	Oct-03-08	Oct-06-08
Crop Stage							
Trt-Eval Interval	214 DA-A	214 DA-A	216 DA-A	216 DA-A	218 DA-A	218 DA-A	221 DA-A
ARM Action Codes							
Trt Treatment							
No. Name							
Rate							
Rate Unit							
154	155	156	157	158	159	160	
16 Vapam (75 G)	23 abc	11 a-e	12 b	5 a	21 abc	8 a-d	29 a
Command							
Dual Magnum							
LSD (P=.05)	10.4	5.6	9.7	5.2	13.0	5.5	10.0
Standard Deviation	7.3	3.9	6.8	3.7	9.1	3.8	7.0
CV	36.97	41.0	41.32	47.6	42.49	42.38	34.84
Bartlett's X2	11.009	13.21	19.982	31.855	19.413	32.17	10.008
P(Bartlett's X2)	0.752	0.586	0.173	0.007*	0.196	0.006*	0.819

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

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Weed Code	harv 11 CUMSA	harv 12 CUMSA	harv 12 CUMSA	harv 1-4 CUMSA	harv 1-4 CUMSA	harv 1-8 CUMSA	harv 1-8 CUMSA	harv1-12 CUMSA	
Crop Code	fruit	fruit	fruit	fruit	fruit	fruit	fruit	fruit	
Part Rated	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#	
Rating Data Type	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot	
Rating Unit	Oct-06-08	Oct-09-08	Oct-09-08						
Rating Date									
Crop Stage	221 DA-A	224 DA-A	224 DA-A						
Trt-Eval Interval				T13	T14	T15	T16	T17	
ARM Action Codes									
Trt Treatment	Rate								
No. Name	Rate Unit	161	162	163	164	165	166	167	168
1 No Fumigant No Herbicide		4 e	10 b	8 b	2 c	1 d	33 e	14 e	77 f
2 No Fumigant Command Dual Magnum	1 QT/A 1 PT/A	8 b-e	12 b	11 ab	7 bc	3 cd	55 cde	23 cde	118 c-f
3 MB 50:50 (210 lb/A) (VIF) No Herbicide		11 a-d	24 a	21 a	13 abc	6 bcd	84 a-d	36 a-d	174 a-d
4 MB 50:50 (210 lb/A) (VIF) Command Dual Magnum	1 QT/A 1 PT/A	13 ab	14 ab	11 ab	17 abc	8 a-d	98 abc	37 a-d	169 a-e
5 MIDAS 50:50 (175 lb/A)VIF No Herbicide		10 a-e	19 ab	17 ab	17 abc	9 abc	93 abc	45 ab	169 a-e
6 MIDAS 50:50 (175 lb/A)VIF Command Dual Magnum	1 QT/A 1 PT/A	13 ab	14 ab	11 ab	15 abc	7 bcd	88 a-d	37 a-d	163 a-e
7 T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 No Herbicide		10 a-e	16 ab	14 ab	26 a	12 ab	105 ab	48 ab	186 abc
8 T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 Command Dual Magnum	1 QT/A 1 PT/A	12 abc	14 ab	13 ab	23 ab	12 ab	106 ab	46 ab	188 abc
9 T2 (12 G) + Vapam(75 G) + Pic (150 lb) No Herbicide		12 ab	19 ab	17 ab	29 a	16 a	118 a	54 a	208 a
10 T2 (12 G) + Vapam(75 G) + Pic 150 lb Command Dual Magnum	1 QT/A 1 PT/A	15 a	18 ab	17 ab	23 ab	10 abc	105 ab	45 ab	202 ab
11 T-C35 (35 G) (8" inject) No Herbicide		5 de	13 b	12 ab	9 bc	5 bcd	52 cde	23 cde	110 def
12 T-C35 (35 G) (8"inject) Command Dual Magnum	1 QT/A 1 PT/A	7 b-e	10 b	9 b	14 abc	6 bcd	67 b-e	26 b-e	129 b-f
13 T2 (12 G) + Pic (150 lb) No Herbicide		6 cde	11 b	10 b	6 bc	3 cd	46 de	20 de	98 ef
14 T2 (12 G) + Pic (150 lb) Command Dual Magnum	1 QT/A 1 PT/A	5 de	12 b	9 b	18 abc	8 a-d	68 b-e	30 b-e	125 c-f
15 Vapam (75 G) No Herbicide		14 ab	17 ab	15 ab	28 a	12 ab	103 ab	46 ab	191 abc

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Weed Code	harv 11	harv 12	harv 12	harv 1-4	harv 1-4	harv 1-8	harv 1-8	harv1-12	
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	
Part Rated	fruit	fruit	fruit	fruit	fruit	fruit	fruit	fruit	
Rating Data Type	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#	
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot	
Rating Date	Oct-06-08	Oct-09-08	Oct-09-08						
Crop Stage									
Trt-Eval Interval	221 DA-A	224 DA-A	224 DA-A						
ARM Action Codes				T13	T14	T15	T16	T17	
Trt Treatment	Rate								
No. Name	Rate Unit	161	162	163	164	165	166	167	168
16 Vapam (75 G)		13 ab	14 ab	11 ab	29 a	12 ab	101 ab	43 abc	176 a-d
Command	1 QT/A								
Dual Magnum	1 PT/A								
LSD (P=.05)		5.6	9.4	9.1	14.3	7.0	40.0	18.7	63.8
Standard Deviation		3.9	6.5	6.4	10.0	4.9	28.0	13.1	44.7
CV		39.57	44.56	50.08	58.57	60.71	33.94	36.66	28.79
Bartlett's X2		12.849	17.388	18.617	23.031	19.21	23.017	20.681	33.123
P(Bartlett's X2)		0.614	0.296	0.232	0.083	0.204	0.084	0.147	0.005*

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

Column 152: T13 = ([C140]+[C142]+[C144]+[C146])

Column 153: T14 = ([C141]+[C143]+[C145]+[C147])

Column 154: T15 = ([C164]+[C148]+[C150]+[C152]+[C154])

Column 155: T16 = ([C165]+[C149]+[C151]+[C153]+[C155])

Column 156: T17 = ([C166]+[C156]+[C158]+[C160]+[C162])

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Weed Code	harv1-12			
Crop Code	CUMSA			
Part Rated	fruit			
Rating Data Type	wt/lb			
Rating Unit	per plot			
Rating Date				
Crop Stage				
Trt-Eval Interval				
ARM Action Codes	T18			
Trt No.	Treatment Name	Rate	Unit	169
1	No Fumigant No Herbicide			37 f
2	No Fumigant Command Dual Magnum	1 1	QT/A PT/A	56 c-f
3	MB 50:50 (210 lb/A) (VIF) No Herbicide			92 a-d
4	MB 50:50 (210 lb/A) (VIF) Command Dual Magnum	1 1	QT/A PT/A	75 a-f
5	MIDAS 50:50 (175 lb/A)VIF No Herbicide			87 a-e
6	MIDAS 50:50 (175 lb/A)VIF Command Dual Magnum	1 1	QT/A PT/A	77 a-e
7	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 No Herbicide			92 a-d
8	T2(12 G)+Pic(150lb) yr2,4 MB 50:50 (210lb) yr1,3,5 Command Dual Magnum	1 1	QT/A PT/A	88 a-d
9	T2 (12 G) + Vapam(75 G) + Pic (150 lb) No Herbicide			105 a
10	T2 (12 G) + Vapam(75 G) + Pic 150 lb Command Dual Magnum	1 1	QT/A PT/A	97 ab
11	T-C35 (35 G) (8" inject) No Herbicide			53 def
12	T-C35 (35 G) (8"inject) Command Dual Magnum	1 1	QT/A PT/A	57 c-f
13	T2 (12 G) + Pic (150 lb) No Herbicide			49 ef
14	T2 (12 G) + Pic (150 lb) Command Dual Magnum	1 1	QT/A PT/A	61 b-f
15	Vapam (75 G) No Herbicide			94 abc

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Weed Code	harv1-12
Crop Code	CUMSA
Part Rated	fruit
Rating Data Type	wt/lb
Rating Unit	per plot
Rating Date	
Crop Stage	
Trt-Eval Interval	
ARM Action Codes	T18
Trt Treatment	Rate
No. Name	Rate Unit
16 Vapam (75 G)	81 a-e
Command	1 QT/A
Dual Magnum	1 PT/A
LSD (P=.05)	33.2
Standard Deviation	23.3
CV	30.95
Bartlett's X2	29.187
P(Bartlett's X2)	0.015*

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

Column 157: T18 = ([C167]+[C157]+[C159]+[C161]+[C163])

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Long-Term Effects of Methyl Bromide Alternatives on Weeds, Diseases, & Nematodes YEAR 5 (crops 9 and 10)

Trial ID: Veg16-08(TVP)
Location: Tifton

Study Dir.: Davis, Culpepper
Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

Study Director: Stanley Culpepper **Title:** UGA Extension
Affiliation: University of Georgia
Postal Code: 31794

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

TRIAL LOCATION

City: Tifton **Trial Status:** completed
State/Prov.: GA **Trial Reliability:** good
Postal Code: 31794 **Initiation Date:** Feb-28-08
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.	DIGSA	large crabgrass	
2.	PORPI	pink purslane	
3.	CYPES	yellow nutsedge	
4.	IAQTA	smallflower morningglory	
5.	MOLVE	carpetweed	
6.	AMAVI	livid amaranth	

Crop 1: CPSAN bell pepper **Variety:** Heritage
Planting Date: Mar-21-08 **Planting Method:** transplant
Rate: 1 per ft **Depth:** 1 in **Perennial Age:** _____
Row Spacing: 12 inch **Spacing Within Row:** 12 inch **Seed Bed:** mulch
Soil Temperature: 62 F **Soil Moisture:** drip **Emergence Date:** _____

Crop 2: CUMSA CUCUMBER **Variety:** Thunder
Planting Date: Aug-14-08 **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: 82 F **Soil Moisture:** moist **Emergence Date:** _____

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SITE AND DESIGN

Plot Width, Unit: 12 FT Plot Length, Unit: 25 FT Reps: 4
 Site Type: Tifton Vegetable Park
 Tillage Type: conventional Study Design: FACTORIAL

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

MAINTENANCE

Field Prep./Maintenance: Fumigant plots are 12 feet wide and 60 feet long. Soil is only moved within a plot with a ripper and a roto-tiller.

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

SOIL DESCRIPTION

% Sand: 90 % OM: 1.1 Texture: sand
 % Silt: 8 pH: 6.1 Soil Name: Tifton sandy loam
 % Clay: 2 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
Application Date:	Feb-28-08
Time of Day:	10 am
Application Method:	Band
Application Timing:	preplant
Applic. Placement:	und mulch
Air Temp., Unit:	65 f
% Relative Humidity:	48
Wind Velocity, Unit:	1 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	58 F
Soil Moisture:	moist
% Cloud Cover:	0

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CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CPSAN preplant
Stage Scale:	not up
Height, Unit:	0 inch
Crop 2 Code, Stage:	CUMSA preplant
Stage Scale:	not up
Height, Unit:	0 inch

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	DIGSA A
Stage Scale:	preplant
Density, Unit:	. .
Weed 2 Code, Stage:	PORPI A
Stage Scale:	preplant
Density, Unit:	. .
Weed 3 Code, Stage:	CYPES A
Stage Scale:	preplant
Density, Unit:	. .
Weed 4 Code, Stage:	IAQTA A
Stage Scale:	preplant
Density, Unit:	. .
Weed 5 Code, Stage:	MOLVE A
Stage Scale:	preplant
Density, Unit:	. .
Weed 6 Code, Stage:	AMAVI A
Stage Scale:	preplant
Density, Unit:	. .

APPLICATION EQUIPMENT

	A
Appl. Equipment:	superbedd
Operating Pressure:	24
Nozzle Type:	flat fan
Nozzle Size:	11002
Nozzle Spacing, Unit:	9 inch
Nozzles/Row:	5
Band Width, Unit:	
Boom Length, Unit:	4.5 ft
Boom Height, Unit:	10 inch
Ground Speed, Unit:	3 mph
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	water
Spray Volume, Unit:	24.8 GPA
Spray pH:	
Propellant:	CO2
Tank Mix (Y/N):	Y

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Trt No	Treatment Application Comment