

University of Georgia

Second crop cucumber and squash response to Goal, V-10204, and Dual Magnum.

Trial ID: Veg39-07

Protocol ID:

Location: TVP

Study Director: Stanley Culpepper

Investigator: Stanley Culpepper

Reps: 3

Plots: 6 by 30 feet

Spray vol: 14.8 gal/ac

Mix size: 1 liters (min .69451)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Rate Unit	Growth Stage	Appl Code	Amt to	Product Measure	Plot No. 1	Plot No. 2	Plot No. 3
1	14 d before planting Goal	4		L	8 OZ/A		PREPLANT A		4.223 ml/mx		101	202	321
2	14 d before planting Goal	4		L	16 OZ/A		PREPLANT A		8.446 ml/mx		102	221	320
3	14 d before planting V-10204	85		DG	0.16 LB A/A		PREPLANT A		1.524 g/mx		103	218	313
4	14 d before planting V-10204	85		DG	0.32 LB A/A		PREPLANT A		3.048 g/mx		104	209	310
5	14 d before planting Dual Magnum	7.64		L	1 PT/A		PREPLANT A		8.445 ml/mx		105	217	323
6	14 d before planting Dual Magnum	7.64		L	2 PT/A		PREPLANT A		16.89 ml/mx		106	207	311
7	7 d before planting Goal	4		L	8 OZ/A		PREPLANT B		4.223 ml/mx		107	219	308
8	7 d before planting Goal	4		L	16 OZ/A		PREPLANT B		8.446 ml/mx		108	206	303
9	7 d before planting V-10204	85		DG	0.16 LB A/A		PREPLANT B		1.524 g/mx		109	204	322
10	7 d before planting V-10204	85		DG	0.32 LB A/A		PREPLANT B		3.048 g/mx		110	224	325
11	7 d before planting Dual Magnum	7.64		L	1 PT/A		PREPLANT B		8.445 ml/mx		111	213	314
12	7 d before planting Dual Magnum	7.64		L	2 PT/A		PREPLANT B		16.89 ml/mx		112	216	302
13	1 d before planting Goal	4		L	8 OZ/A		PREPLANT C		4.223 ml/mx		113	212	315
14	1 d before planting Goal	4		L	16 OZ/A		PREPLANT C		8.446 ml/mx		114	210	305
15	1 d before planting V-10204	85		DG	0.16 LB A/A		PREPLANT C		1.524 g/mx		115	225	324
16	1 d before planting V-10204	85		DG	0.32 LB A/A		PREPLANT C		3.048 g/mx		116	208	318
17	1 d before planting Dual Magnum	7.64		L	1 PT/A		PREPLANT C		8.445 ml/mx		117	214	307
18	1 d before planting Dual Magnum	7.64		L	2 PT/A		PREPLANT C		16.89 ml/mx		118	220	316
19	1 d after planting Goal	4		L	8 OZ/A		PREPLANT D		4.223 ml/mx		119	211	304
20	1 d after planting Goal	4		L	16 OZ/A		PREPLANT D		8.446 ml/mx		120	205	319
21	1 d after planting V-10204	85		DG	0.16 LB A/A		PREPLANT D		1.524 g/mx		121	222	301
22	1 d after planting V-10204	85		DG	0.32 LB A/A		PREPLANT D		3.048 g/mx		122	223	312
23	1 d after planting Dual Magnum	7.64		L	1 PT/A		PREPLANT D		8.445 ml/mx		123	203	306

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Reps: 3 Plots: 6 by 30 feet
 Spray vol: 14.8 gal/ac Mix size: 1 liters (min .69451)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Form Rate	Rate Unit	Growth Stage	Appl Code	Amt to Measure	Product	Plot No. 1	By Rep 2	By Rep 3
24	1 d after planting Dual Magnum	7.64		L	2	PT/A	PREPLANT D PREPLANT D			16.89 ml/mx	124	201	309
25	Non-treated control										125	215	317

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
63.345	ml	Goal	4	L	
22.860	g	V-10204	85	DG	
126.676	ml	Dual Magnum	7.64	L	

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

Trial Comments

OBJECTIVE: Determine the potential for using Goal, V-10204, or Dual Magnum over mulch prior to planting a second crop cucumber and squash.

Cucumber and squash were both seeded and transplanted.

White flies devastated this trial making it extremely variable; however, this would be a challenging test because of stress for the entire season.

CUCUMBER INJURY:

1. Acceptable tolerance was noted with the following:
 - A. Goal at 8 or 16 oz applied 14 or 7 DBP
 - B. Dual at 1 or 2 pt applied 14 DBP.
 - C. Goal applied at 8 oz 1 DBP.
2. After harvesting cucumber 14 times, there was not even a trend for loss when
 - A. Goal at 8 or 16 oz applied 14, 7, or 1 DBP.
 - B. Dual 1 pt 14 DBP or 1 DAP.

SQUASH INJURY:

1. Acceptable tolerance was noted with the following:
 - A. Goal applied at 8 or 16 oz 14 or 7 DBP.
 - B. Goal applied at 8 oz 1 DBP.
2. Squash recovered from a large amount of injury over time with many systems producing yields similar to the non-treated.

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Second crop cucumber and squash response to Goal, V-10204, and Dual Magnum.

Trial ID: Veg39-07

Protocol ID:

Location: TVP

Study Director: Stanley Culpepper

Investigator: Stanley Culpepper

Pest Code										
Crop Code		CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUUPE			
BBCH Scale		BVVT	BVVT	BVVT	BVVT	BVVT	BVVT			
Crop Variety		transpla	transpla	seeded	seeded	transpla	transpla			
Rating Date		Sep-01-07	Sep-05-07	Sep-01-07	Sep-05-07	Oct-08-07	Sep-01-07			
Rating Data Type		injury	injury	injury	injury	injury	injury			
Rating Unit		%	%	%	%	%	%			
Assessed By		SC	SC	SC	SC	SC	SC			
Days After First/Last Applic.		15	19	15	19	52	15			
ARM Action Codes										
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7
1	14 d before planting Goal	8	OZ/A	3 f	0 i	0 h	4 de	0 f	3 hi	0 g
2	14 d before planting Goal	16	OZ/A	0 f	5 ghi	5 h	23 cd	0 f	3 hi	0 g
3	14 d before planting V-10204	0.16	LB A/A	47 cd	25 def	62 cd	77 a	10 ef	17 fgh	37 cd
4	14 d before planting V-10204	0.32	LB A/A	48 cd	53 b	79 abc	86 a	20 e	48 e	37 cd
5	14 d before planting Dual Magnum	1	PT/A	2 f	7 ghi	9 gh	15 cde	0 f	5 hi	2 g
6	14 d before planting Dual Magnum	2	PT/A	10 f	5 ghi	5 h	13 cde	7 f	0 i	12 fg
7	7 d before planting Goal	8	OZ/A	0 f	2 i	7 h	9 de	3 f	5 hi	3 g
8	7 d before planting Goal	16	OZ/A	0 f	8 ghi	2 h	22 cd	0 f	0 i	5 fg
9	7 d before planting V-10204	0.16	LB A/A	43 d	38 cd	87 ab	83 a	3 f	50 e	30 de
10	7 d before planting V-10204	0.32	LB A/A	63 bc	62 b	90 ab	93 a	40 d	63 d	52 c
11	7 d before planting Dual Magnum	1	PT/A	20 ef	20 efg	37 ef	33 bc	5 f	25 f	13 efg
12	7 d before planting Dual Magnum	2	PT/A	13 ef	5 ghi	34 ef	13 cde	0 f	15 fgh	5 fg
13	1 d before planting Goal	8	OZ/A	8 f	3 hi	7 h	0 e	0 f	12 ghi	3 g
14	1 d before planting Goal	16	OZ/A	13 ef	5 ghi	13 fgh	13 cde	0 f	10 ghi	5 fg
15	1 d before planting V-10204	0.16	LB A/A	73 ab	78 a	92 ab	90 a	57 c	60 de	53 c
16	1 d before planting V-10204	0.32	LB A/A	73 ab	90 a	96 a	95 a	87 a	77 bc	72 b
17	1 d before planting Dual Magnum	1	PT/A	10 f	12 f-i	32 efg	32 c	3 f	14 fgh	10 fg
18	1 d before planting Dual Magnum	2	PT/A	33 de	30 de	55 cde	52 b	9 ef	20 fg	23 def
19	1 d after planting Goal	8	OZ/A	68 ab	37 d	52 de	52 b	33 d	90 a	95 a
20	1 d after planting Goal	16	OZ/A	87 a	52 bc	94 a	88 a	40 d	94 a	96 a

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Pest Code									
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUUPE	CUUPE		
BBCH Scale	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT		
Crop Variety	transpla	transpla	seeded	seeded		transpla	transpla		
Rating Date	Sep-01-07	Sep-05-07	Sep-01-07	Sep-05-07	Oct-08-07	Sep-01-07	Sep-05-07		
Rating Data Type	injury	injury	injury	injury	injury	injury	injury		
Rating Unit	%	%	%	%	%	%	%		
Assessed By	SC	SC	SC	SC	SC	SC	SC		
Days After First/Last Applic.	15	19	15	19	52	15	19		
ARM Action Codes									
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
		Unit	Unit	Unit	Unit	Unit	Unit	Unit	
		1	2	3	4	5	6	7	
21	1 d after planting V-10204	0.16 LB A/A	70 ab	77 a	87 ab	92 a	70 b	67 cd	70 b
22	1 d after planting V-10204	0.32 LB A/A	83 ab	83 a	93 a	95 a	94 a	83 ab	72 b
23	1 d after planting Dual Magnum	1 PT/A	13 ef	20 efg	47 de	82 a	5 f	3 hi	11 fg
24	1 d after planting Dual Magnum	2 PT/A	33 de	18 e-h	67 bcd	83 a	0 f	10 ghi	8 fg
25	Non-treated control		0 f	0 i	0 h	0 e	0 f	0 i	0 g
LSD (P=.05)			18.3	13.7	22.3	17.6	12.3	11.8	16.6
Standard Deviation			11.1	8.3	13.5	10.7	7.4	7.2	10.1
CV			33.98	28.32	29.39	21.46	38.24	23.1	35.3
Bartlett's X2			21.419	13.953	31.243	27.477	7.465	11.503	30.266
P(Bartlett's X2)			0.373	0.903	0.091	0.094	0.877	0.906	0.066

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

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Pest Code			CUUPE	CUUPE	CUUPE	plant 1	plant 2	plant 3	plant 4
Crop Code			CUUPE	CUUPE	CUUPE	CUMSA	CUMSA	CUMSA	CUMSA
BBCH Scale			BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT
Crop Variety			seeded	seeded	seeded	transpla	transpla	transpla	transpla
Rating Date			Sep-01-07	Sep-05-07	Oct-08-07	Sep-06-07	Sep-06-07	Sep-06-07	Sep-06-07
Rating Data Type			injury	injury	injury	ht	ht	ht	ht
Rating Unit			%	%	%	cm	cm	cm	cm
Assessed By			SC	SC	SC				
Days After First/Last Applic.			15	19	52	20	20	20	20
ARM Action Codes									
Trt No.	Treatment Name	Rate Unit	8	9	10	12	13	14	15
1	14 d before planting Goal	8 OZ/A	0 e	3 e	0 j	19 a	18 ab	17 ab	19 abc
2	14 d before planting Goal	16 OZ/A	2 e	0 e	0 j	18 ab	15 a-d	18 a	20 ab
3	14 d before planting V-10204	0.16 LB A/A	32 d	40 cd	38 d	13 a-f	12 bcd	12 a-e	12 b-e
4	14 d before planting V-10204	0.32 LB A/A	75 b	60 bc	35 de	11 c-f	15 a-d	12 a-e	14 a-e
5	14 d before planting Dual Magnum	1 PT/A	6 e	7 e	7 hij	17 abc	13 bcd	15 a-d	13 a-e
6	14 d before planting Dual Magnum	2 PT/A	12 e	18 de	33 def	15 a-e	11 bcd	16 abc	17 a-e
7	7 d before planting Goal	8 OZ/A	7 e	6 e	7 hij	14 a-f	14 bcd	17 ab	16 a-e
8	7 d before planting Goal	16 OZ/A	0 e	5 e	11 g-j	13 a-f	13 bcd	13 a-e	14 a-e
9	7 d before planting V-10204	0.16 LB A/A	80 ab	40 cd	23 efg	10 def	12 bcd	13 a-e	11 b-e
10	7 d before planting V-10204	0.32 LB A/A	80 ab	62 bc	32 def	16 a-d	14 bcd	15 a-d	11 b-e
11	7 d before planting Dual Magnum	1 PT/A	10 e	20 de	13 g-j	10 def	12 bcd	13 a-e	13 a-e
12	7 d before planting Dual Magnum	2 PT/A	16 de	2 e	3 ij	12 b-f	18 abc	14 a-e	15 a-e
13	1 d before planting Goal	8 OZ/A	7 e	3 e	0 j	15 a-e	14 a-d	14 a-e	22 a
14	1 d before planting Goal	16 OZ/A	10 e	12 e	20 fgh	15 a-e	15 a-d	15 a-d	15 a-e
15	1 d before planting V-10204	0.16 LB A/A	93 a	77 ab	40 cd	9 ef	10 cd	8 e	8 de
16	1 d before planting V-10204	0.32 LB A/A	93 a	92 a	40 cd	9 ef	8 d	8 e	8 e
17	1 d before planting Dual Magnum	1 PT/A	18 de	18 de	17 ghi	17 abc	14 bcd	14 a-e	15 a-e
18	1 d before planting Dual Magnum	2 PT/A	18 de	10 e	53 c	13 a-f	14 a-d	13 a-e	12 a-e
19	1 d after planting Goal	8 OZ/A	53 c	42 cd	70 b	14 a-f	15 a-d	12 a-e	9 cde
20	1 d after planting Goal	16 OZ/A	57 c	80 ab	80 ab	8 f	11 bcd	11 b-e	10 b-e
21	1 d after planting V-10204	0.16 LB A/A	77 ab	67 b	45 cd	8 f	8 d	8 de	8 e
22	1 d after planting V-10204	0.32 LB A/A	93 a	93 a	92 a	8 f	8 d	10 cde	9 cde
23	1 d after planting Dual Magnum	1 PT/A	3 e	7 e	10 g-j	15 a-e	14 bcd	14 a-e	15 a-e

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Pest Code				plant 1	plant 2	plant 3	plant 4
Crop Code	CUUPE	CUUPE	CUUPE	CUMSA	CUMSA	CUMSA	CUMSA
BBCH Scale	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT
Crop Variety	seeded	seeded	seeded	transpla	transpla	transpla	transpla
Rating Date	Sep-01-07	Sep-05-07	Oct-08-07	Sep-06-07	Sep-06-07	Sep-06-07	Sep-06-07
Rating Data Type	injury	injury	injury	ht	ht	ht	ht
Rating Unit	%	%	%	cm	cm	cm	cm
Assessed By	SC		SC				
Days After First/Last Applic.	15	19	52	20	20	20	20
ARM Action Codes							
Trt Treatment	Rate						
No. Name	Rate Unit	8	9	10	12	13	14
24 1 d after planting		17 de	18 de	12 g-j	13 a-f	14 a-d	14 a-e
Dual Magnum	2 PT/A						13 a-e
25 Non-treated control		0 e	0 e	0 j	17 abc	22 a	15 abc
						18 abc	18 a-d
LSD (P=.05)		16.2	21.2	12.9	5.4	6.7	5.6
Standard Deviation		9.8	12.9	7.8	3.2	4.1	3.4
CV		28.69	41.25	28.66	24.61	30.43	25.93
Bartlett's X2		26.163	27.524	23.049	25.689	40.135	28.698
P(Bartlett's X2)		0.16	0.154	0.059	0.369	0.021*	0.232
							0.001*

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

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Pest Code	AVG4PLAN	plant 1	plant 2	plant 3	plant 4	AVG4PLAN	plant 1			
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA			
BBCH Scale	BVWT	BVWT	BVWT	BVWT	BVWT	BVWT	BVWT			
Crop Variety	transpla	seeded	seeded	seeded	seeded	seeded	seeded			
Rating Date	Sep-06-07	Sep-06-07	Sep-06-07	Sep-06-07	Sep-06-07	Sep-06-07	Sep-25-07			
Rating Data Type	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm			
Assessed By										
Days After First/Last Applic.	20	20	20	20	20	20	39			
ARM Action Codes	T1					T17				
Trt No.	Treatment Name	Rate	Unit	16	18	19	20	21	22	24
1	14 d before planting Goal	8	OZ/A	18 a	18 a	17 a	16 a	17 a	17 a	105 ab
2	14 d before planting Goal	16	OZ/A	18 abc	12 a-e	11 bcd	11 a-f	10 a-d	11 b-e	111 a
3	14 d before planting V-10204	0.16	LB A/A	12 c-h	9 b-g	7 c-f	6 d-i	7 b-f	7 d-g	81 abc
4	14 d before planting V-10204	0.32	LB A/A	13 a-h	5 e-i	2 f-i	3 ghi	6 b-f	4 fgh	78 abc
5	14 d before planting Dual Magnum	1	PT/A	14 a-f	11 a-f	7 d-h	8 b-h	10 a-d	9 c-f	79 abc
6	14 d before planting Dual Magnum	2	PT/A	15 a-f	11 a-f	11 bcd	13 a-d	9 a-d	11 b-e	79 abc
7	7 d before planting Goal	8	OZ/A	15 a-e	8 c-i	8 c-f	7 c-i	9 a-e	8 c-g	82 abc
8	7 d before planting Goal	16	OZ/A	13 a-h	14 a-d	11 bcd	10 a-g	14 ab	12 a-d	104 ab
9	7 d before planting V-10204	0.16	LB A/A	11 d-h	5 e-i	5 d-i	2 ghi	3 def	4 fgh	81 abc
10	7 d before planting V-10204	0.32	LB A/A	14 a-g	0 i	0 i	0 i	0 f	0 h	49 bcd
11	7 d before planting Dual Magnum	1	PT/A	12 d-h	6 d-i	10 b-e	7 b-i	14 ab	9 c-f	89 abc
12	7 d before planting Dual Magnum	2	PT/A	15 a-e	11 a-f	10 b-e	12 a-e	14 ab	12 a-e	103 ab
13	1 d before planting Goal	8	OZ/A	16 a-d	15 abc	13 abc	15 ab	12 abc	14 abc	78 abc
14	1 d before planting Goal	16	OZ/A	15 a-e	8 c-h	10 b-e	15 abc	11 a-d	11 b-e	100 ab
15	1 d before planting V-10204	0.16	LB A/A	9 fgh	1 ghi	1 hi	0 i	0 f	0 h	46 bcd
16	1 d before planting V-10204	0.32	LB A/A	8 gh	5 e-i	1 ghi	1 hi	1 ef	2 gh	14 d
17	1 d before planting Dual Magnum	1	PT/A	15 a-e	7 c-i	10 b-e	9 a-g	8 b-f	9 c-f	81 abc
18	1 d before planting Dual Magnum	2	PT/A	13 a-h	7 c-i	7 d-g	7 c-i	8 b-f	7 d-g	70 abc
19	1 d after planting Goal	8	OZ/A	12 b-h	12 a-f	7 d-h	7 d-i	4 def	7 d-g	75 abc
20	1 d after planting Goal	16	OZ/A	10 e-h	7 d-i	5 e-i	4 f-i	3 def	5 fgh	61 a-d
21	1 d after planting V-10204	0.16	LB A/A	8 h	4 f-i	3 f-i	5 e-i	3 def	4 fgh	35 cd
22	1 d after planting V-10204	0.32	LB A/A	9 fgh	1 hi	1 hi	1 hi	0 f	1 h	9 d
23	1 d after planting Dual Magnum	1	PT/A	15 a-f	4 e-i	6 d-h	6 d-i	5 c-f	6 e-h	93 abc

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Pest Code	AVG4PLAN	plant 1	plant 2	plant 3	plant 4	AVG4PLAN	plant 1
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
BBCH Scale	BVWT	BVWT	BVWT	BVWT	BVWT	BVWT	BVWT
Crop Variety	transpla	seeded	seeded	seeded	seeded	seeded	seeded
Rating Date	Sep-06-07	Sep-06-07	Sep-06-07	Sep-06-07	Sep-06-07	Sep-06-07	Sep-25-07
Rating Data Type	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm
Assessed By							
Days After First/Last Applic.	20	20	20	20	20	20	39
ARM Action Codes	T1					T17	
Trt Treatment	Rate						
No. Name	Rate Unit	16	18	19	20	21	22
24 1 d after planting		14 a-h	4 f-i	3 f-i	6 d-i	4 def	4 fgh
Dual Magnum	2 PT/A						96 ab
25 Non-treated control		18 ab	16 ab	16 ab	16 a	13 abc	15 ab
							97 ab
LSD (P=.05)		4.9	6.8	5.3	6.7	6.9	5.2
Standard Deviation		3.0	4.1	3.2	4.0	4.2	3.2
CV		22.2	50.61	44.2	53.9	55.9	41.61
Bartlett's X2		43.539	33.045	31.921	22.102	35.505	43.0
P(Bartlett's X2)		0.009*	0.061	0.079	0.454	0.034*	0.007*
							0.242

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

Column 15: T1 = @AVG([C12].[C15])

Column 20: T17 = @AVG([C18].[C21])

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Pest Code	plant 2 CUMSA BVVT	plant 3 CUMSA BVVT	plant 4 CUMSA BVVT	plant 5 CUMSA BVVT	plant 6 CUMSA BVVT	plant 7 CUMSA BVVT	AVG7PLAN CUMSA BVVT			
Crop Code										
BBCH Scale										
Crop Variety										
Rating Date	Sep-25-07	Sep-25-07	Sep-25-07	Sep-25-07	Sep-25-07	Sep-25-07	Sep-25-07			
Rating Data Type	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm			
Assessed By										
Days After First/Last Applic.	39	39	39	39	39	39	39			
ARM Action Codes							T2			
Trt No.	Treatment Name	Rate	Unit	25	26	27	28	29	30	31
1	14 d before planting Goal	8	OZ/A	94 a	93 abc	81 a	92 ab	95 ab	86 a	92 abc
2	14 d before planting Goal	16	OZ/A	92 a	98 abc	98 a	85 ab	76 ab	77 a	91 abc
3	14 d before planting V-10204	0.16	LB A/A	65 abc	75 abc	87 a	72 ab	71 ab	77 a	76 a-d
4	14 d before planting V-10204	0.32	LB A/A	61 a-d	79 abc	96 a	66 ab	85 ab	35 abc	71 a-d
5	14 d before planting Dual Magnum	1	PT/A	81 ab	106 a	85 a	102 a	87 ab	72 abc	88 a-d
6	14 d before planting Dual Magnum	2	PT/A	81 ab	75 abc	81 a	50 bc	67 abc	53 abc	69 a-d
7	7 d before planting Goal	8	OZ/A	74 ab	86 abc	103 a	81 ab	75 ab	81 a	83 a-d
8	7 d before planting Goal	16	OZ/A	105 a	93 abc	85 a	103 a	85 ab	95 a	96 ab
9	7 d before planting V-10204	0.16	LB A/A	60 a-d	53 c	84 a	87 ab	93 ab	101 a	80 a-d
10	7 d before planting V-10204	0.32	LB A/A	38 b-e	63 abc	99 a	73 ab	89 ab	32 abc	63 cd
11	7 d before planting Dual Magnum	1	PT/A	84 ab	68 abc	96 a	99 a	92 ab	74 ab	86 a-d
12	7 d before planting Dual Magnum	2	PT/A	82 ab	92 abc	101 a	94 ab	81 ab	82 a	91 abc
13	1 d before planting Goal	8	OZ/A	96 a	91 abc	77 ab	77 ab	94 ab	56 abc	81 a-d
14	1 d before planting Goal	16	OZ/A	91 a	88 abc	108 a	106 a	95 ab	92 a	97 a
15	1 d before planting V-10204	0.16	LB A/A	18 de	63 abc	63 abc	20 cd	25 cd	4 bc	34 ef
16	1 d before planting V-10204	0.32	LB A/A	10 e	12 d	23 cd	6 d	3 d	3 bc	10 fg
17	1 d before planting Dual Magnum	1	PT/A	69 abc	86 abc	94 a	100 a	95 ab	93 a	88 a-d
18	1 d before planting Dual Magnum	2	PT/A	73 ab	84 abc	62 abc	88 ab	101 a	75 ab	79 a-d
19	1 d after planting Goal	8	OZ/A	72 ab	58 bc	59 abc	84 ab	51 bc	57 abc	65 bcd
20	1 d after planting Goal	16	OZ/A	60 a-d	59 bc	60 abc	65 ab	63 abc	41 abc	58 de
21	1 d after planting V-10204	0.16	LB A/A	26 cde	13 d	25 bcd	19 cd	7 d	53 abc	25 fg
22	1 d after planting V-10204	0.32	LB A/A	3 e	0 d	0 d	0 d	0 d	0 c	2 g
23	1 d after planting Dual Magnum	1	PT/A	82 ab	84 abc	86 a	78 ab	88 ab	92 a	86 a-d

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Pest Code	plant 2	plant 3	plant 4	plant 5	plant 6	plant 7	AVG7PLAN
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
BBCH Scale	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT
Crop Variety							
Rating Date	Sep-25-07	Sep-25-07	Sep-25-07	Sep-25-07	Sep-25-07	Sep-25-07	Sep-25-07
Rating Data Type	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm
Assessed By							
Days After First/Last Applic.	39	39	39	39	39	39	39
ARM Action Codes							T2
Trt Treatment	Rate						
No. Name	Rate Unit	25	26	27	28	29	30
24 1 d after planting		94 a	95 abc	83 a	88 ab	78 ab	56 abc
Dual Magnum	2 PT/A						84 a-d
25 Non-treated control		83 ab	99 ab	91 a	101 a	104 a	94 a
LSD (P=.05)		38.7	37.5	47.3	38.1	40.9	61.3
Standard Deviation		23.4	22.8	28.7	23.1	24.8	37.1
CV		34.57	31.37	37.16	31.44	34.35	58.75
Bartlett's X2		43.859	37.712	34.769	20.042	36.996	27.197
P(Bartlett's X2)		0.008*	0.027*	0.055	0.639	0.033*	0.248
							25.4
							15.4
							21.46
							25.132
							0.399

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

Column 28: T2 = @AVG([C24].[C30])

University of Georgia

Pest Code	plant 1 CUUPE	plant 2 CUUPE	plant 3 CUUPE	plant 4 CUUPE	AVG4PLAN CUUPE	plant 1 CUUPE	plant 2 CUUPE			
Crop Code	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT			
BBCH Scale	transpla	transpla	transpla	transpla	transpla	seeded	seeded			
Crop Variety	Sep-06-07	Sep-06-07	Sep-06-07	Sep-06-07	Sep-06-07	Sep-06-07	Sep-06-07			
Rating Date	ht	ht	ht	ht	ht	ht	ht			
Rating Data Type	cm	cm	cm	cm	cm	cm	cm			
Rating Unit										
Assessed By	20	20	20	20	20	20	20			
Days After First/Last Applic.					T3					
ARM Action Codes										
Trt No.	Treatment Name	Rate	Unit	33	34	35	36	37	39	40
1	14 d before planting Goal	8	OZ/A	13 abc	12 abc	14 abc	14 a	13 ab	13 a-d	14 a-d
2	14 d before planting Goal	16	OZ/A	12 abc	12 a-d	12 a-d	14 a	13 abc	15 abc	15 a
3	14 d before planting V-10204	0.16	LB A/A	10 b-e	12 a-d	12 a-e	9 a-d	11 a-g	9 b-f	10 a-f
4	14 d before planting V-10204	0.32	LB A/A	8 cde	9 a-d	11 a-f	10 a-d	10 c-h	8 c-f	7 b-f
5	14 d before planting Dual Magnum	1	PT/A	13 abc	11 a-d	15 a	13 ab	13 ab	13 a-d	14 a-d
6	14 d before planting Dual Magnum	2	PT/A	11 a-d	13 ab	12 a-d	12 abc	12 a-d	15 abc	11 a-f
7	7 d before planting Goal	8	OZ/A	12 abc	11 a-d	12 a-e	11 a-d	11 a-e	14 a-d	15 ab
8	7 d before planting Goal	16	OZ/A	9 cde	13 ab	10 a-g	11 a-d	11 a-g	13 a-d	14 a-d
9	7 d before planting V-10204	0.16	LB A/A	9 cde	9 a-d	9 d-g	9 a-d	9 d-h	13 a-d	11 a-e
10	7 d before planting V-10204	0.32	LB A/A	10 b-e	10 a-d	7 efg	8 bcd	9 e-h	7 def	7 c-f
11	7 d before planting Dual Magnum	1	PT/A	10 a-e	9 a-d	9 d-g	12 abc	10 b-g	12 a-e	14 abc
12	7 d before planting Dual Magnum	2	PT/A	13 abc	10 a-d	13 a-d	10 a-d	12 a-e	12 a-d	16 a
13	1 d before planting Goal	8	OZ/A	14 ab	9 a-d	13 a-d	14 a	13 abc	13 a-d	16 a
14	1 d before planting Goal	16	OZ/A	15 a	13 a	14 ab	12 a-d	14 a	10 a-f	12 a-d
15	1 d before planting V-10204	0.16	LB A/A	5 ef	7 cd	9 d-g	6 d	7 h	8 c-f	7 b-f
16	1 d before planting V-10204	0.32	LB A/A	9 cde	8 bcd	7 efg	7 cd	8 gh	4 ef	5 ef
17	1 d before planting Dual Magnum	1	PT/A	10 a-d	11 a-d	11 a-f	10 a-d	11 a-g	14 a-d	11 a-e
18	1 d before planting Dual Magnum	2	PT/A	11 a-d	12 a-d	10 a-g	11 a-d	11 a-f	13 a-d	16 a
19	1 d after planting Goal	8	OZ/A	4 fg	0 e	0 h	0 e	1 i	13 a-d	16 a
20	1 d after planting Goal	16	OZ/A	0 g	0 e	0 h	0 e	0 i	16 ab	13 a-d
21	1 d after planting V-10204	0.16	LB A/A	9 cde	7 d	6 g	10 a-d	8 fgh	8 c-f	6 def
22	1 d after planting V-10204	0.32	LB A/A	7 def	10 a-d	7 fg	11 a-d	9 e-h	4 f	4 f
23	1 d after planting Dual Magnum	1	PT/A	13 abc	10 a-d	11 a-f	11 a-d	11 a-e	17 a	13 a-d

University of Georgia

Pest Code	plant 1	plant 2	plant 3	plant 4	AVG4PLAN	plant 1	plant 2
Crop Code	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE
BBCH Scale	BVT	BVT	BVT	BVT	BVT	BVT	BVT
Crop Variety	transpla	transpla	transpla	transpla	transpla	seeded	seeded
Rating Date	Sep-06-07	Sep-06-07	Sep-06-07	Sep-06-07	Sep-06-07	Sep-06-07	Sep-06-07
Rating Data Type	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm
Assessed By							
Days After First/Last Applic.	20	20	20	20	20	20	20
ARM Action Codes					T3		
Trt Treatment	Rate						
No. Name	Rate Unit	33	34	35	36	37	39
24 1 d after planting		11 a-d	11 a-d	10 c-g	13 ab	11 a-f	14 a-d
Dual Magnum	2 PT/A						9 a-f
25 Non-treated control		12 abc	10 a-d	10 b-g	11 a-d	11 a-g	17 ab
LSD (P=.05)		4.1	4.3	3.7	4.7	2.7	6.5
Standard Deviation		2.5	2.6	2.3	2.8	1.6	3.9
CV		25.22	27.02	23.21	28.26	16.77	33.42
Bartlett's X2		21.008	25.214	20.552	16.603	23.708	28.422
P(Bartlett's X2)		0.581	0.287	0.549	0.785	0.42	0.243

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

Column 33: T3 = @AVG([C33].[C36])

University of Georgia

Pest Code	plant 3 CUUPE	plant 4 CUUPE	AVG4PLAN CUUPE	plant 1 CUUPE	plant 2 CUUPE	plant 3 CUUPE	plant 4 CUUPE			
Crop Code										
BBCH Scale	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT			
Crop Variety	seeded	seeded	seeded							
Rating Date	Sep-06-07	Sep-06-07	Sep-06-07	Sep-25-07	Sep-25-07	Sep-25-07	Sep-25-07			
Rating Data Type	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm			
Assessed By										
Days After First/Last Applic.	20	20	20	39	39	39	39			
ARM Action Codes			T4							
Trt No.	Treatment Name	Rate	Unit	41	42	43	45	46	47	48
1	14 d before planting Goal	8	OZ/A	8 b-e	13 ab	12 a-d	25 a-d	22 abc	17 ab	23 ab
2	14 d before planting Goal	16	OZ/A	18 a	9 a-d	14 a	28 abc	17 a-d	28 a	21 ab
3	14 d before planting V-10204	0.16	LB A/A	9 b-e	10 a-d	9 a-e	15 a-d	18 a-d	13 ab	9 bc
4	14 d before planting V-10204	0.32	LB A/A	6 cde	5 bcd	7 c-f	25 a-d	25 abc	27 a	22 ab
5	14 d before planting Dual Magnum	1	PT/A	11 a-d	14 ab	13 abc	29 ab	28 abc	21 ab	21 ab
6	14 d before planting Dual Magnum	2	PT/A	11 a-d	15 a	13 ab	21 a-d	24 abc	17 ab	8 bc
7	7 d before planting Goal	8	OZ/A	13 a-d	15 ab	14 a	26 abc	16 a-d	18 ab	20 ab
8	7 d before planting Goal	16	OZ/A	13 a-d	13 ab	13 ab	21 a-d	26 abc	17 ab	14 abc
9	7 d before planting V-10204	0.16	LB A/A	7 cde	5 bcd	9 a-e	30 a	34 a	30 a	24 ab
10	7 d before planting V-10204	0.32	LB A/A	6 de	5 bcd	6 def	12 cde	17 a-d	15 ab	18 abc
11	7 d before planting Dual Magnum	1	PT/A	9 b-e	6 a-d	10 a-d	26 abc	19 abc	26 a	27 ab
12	7 d before planting Dual Magnum	2	PT/A	16 ab	13 ab	14 a	27 abc	19 abc	14 ab	32 a
13	1 d before planting Goal	8	OZ/A	16 ab	9 a-d	14 ab	28 abc	24 abc	30 a	32 a
14	1 d before planting Goal	16	OZ/A	8 b-e	9 a-d	10 a-d	20 a-d	19 abc	16 ab	8 bc
15	1 d before planting V-10204	0.16	LB A/A	6 cde	7 a-d	7 b-f	22 a-d	27 abc	30 a	25 ab
16	1 d before planting V-10204	0.32	LB A/A	2 e	2 cd	3 ef	19 a-d	19 abc	24 a	24 ab
17	1 d before planting Dual Magnum	1	PT/A	13 a-d	8 a-d	12 a-d	23 a-d	31 ab	26 a	16 abc
18	1 d before planting Dual Magnum	2	PT/A	14 abc	12 ab	14 a	17 a-d	20 abc	18 ab	17 abc
19	1 d after planting Goal	8	OZ/A	16 ab	14 ab	15 a	14 b-e	0 d	0 b	0 c
20	1 d after planting Goal	16	OZ/A	12 a-d	12 abc	13 ab	0 e	0 d	0 b	0 c
21	1 d after planting V-10204	0.16	LB A/A	6 de	6 a-d	6 def	25 a-d	29 abc	27 a	20 ab
22	1 d after planting V-10204	0.32	LB A/A	2 e	1 d	3 f	10 de	12 cd	16 ab	13 abc
23	1 d after planting Dual Magnum	1	PT/A	12 a-d	13 ab	14 a	24 a-d	17 a-d	10 ab	12 bc

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Pest Code	plant 3	plant 4	AVG4PLAN	plant 1	plant 2	plant 3	plant 4	
Crop Code	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	
BBCH Scale	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	
Crop Variety	seeded	seeded	seeded	seeded	seeded	seeded	seeded	
Rating Date	Sep-06-07	Sep-06-07	Sep-06-07	Sep-25-07	Sep-25-07	Sep-25-07	Sep-25-07	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	
Assessed By								
Days After First/Last Applic.	20	20	20	39	39	39	39	
ARM Action Codes			T4					
Trt Treatment	Rate							
No. Name	Rate Unit	41	42	43	45	46	47	48
24 1 d after planting		11 a-d	8 a-d	11 a-d	24 a-d	27 abc	19 ab	24 ab
Dual Magnum	2 PT/A							
25 Non-treated control		13 a-d	11 a-d	14 a	15 a-d	15 bcd	14 ab	21 ab
LSD (P=.05)		6.9	8.3	5.4	13.1	15.3	17.8	15.8
Standard Deviation		4.2	5.0	3.3	8.0	9.3	10.8	9.6
CV		40.05	53.96	30.33	37.88	45.78	57.0	53.19
Bartlett's X2		27.09	24.828	15.897	24.496	17.662	23.059	21.159
P(Bartlett's X2)		0.30	0.415	0.892	0.377	0.67	0.398	0.511

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

Column 38: T4 = @AVG([C39].[C42])

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Pest Code	AVG4PLAN	biomass	biomass	biomass	biomass	biomass	biomass			
Crop Code	CUUPE	CUMSA	CUMSA	CUMSA	CUUPE	CUUPE	CUUPE			
BBCH Scale	BWVT	BWVT	BWVT	BWVT	BWVT	BWVT	BWVT			
Crop Variety										
Rating Date	Sep-25-07	Sep-06-07	Sep-06-07	Sep-06-07	Sep-06-07	Sep-06-07	Sep-06-07			
Rating Data Type	ht	#	wt/g	wt/g	#	wt/g	wt/g			
Rating Unit	cm	per plot	per plot	perplant	per plot	per plot	per plan			
Assessed By										
Days After First/Last Applic.	39	20	20	20	20	20	20			
ARM Action Codes	T18						T19			
Trt No.	Treatment Name	Rate	Unit	49	51	52	53	55	56	57
1	14 d before planting Goal	8	OZ/A	22 abc	9 ab	134 a	14 a	4 b	75 a-d	21 abc
2	14 d before planting Goal	16	OZ/A	24 abc	8 abc	39 c-f	5 b-e	4 ab	134 ab	31 a
3	14 d before planting V-10204	0.16	LB A/A	14 cd	8 abc	18 def	2 cde	5 ab	26 bcd	5 cd
4	14 d before planting V-10204	0.32	LB A/A	25 abc	7 bc	5 ef	1 e	4 ab	14 cd	3 cd
5	14 d before planting Dual Magnum	1	PT/A	25 abc	8 abc	33 c-f	4 cde	4 ab	82 a-d	19 a-d
6	14 d before planting Dual Magnum	2	PT/A	18 abc	8 abc	41 c-f	5 b-e	5 ab	90 a-d	19 a-d
7	7 d before planting Goal	8	OZ/A	20 abc	8 abc	54 b-e	7 bc	4 ab	97 a-d	22 abc
8	7 d before planting Goal	16	OZ/A	20 abc	7 abc	54 b-e	7 bc	5 a	103 a-d	19 a-d
9	7 d before planting V-10204	0.16	LB A/A	30 a	7 abc	11 def	1 de	4 ab	41 a-d	10 bcd
10	7 d before planting V-10204	0.32	LB A/A	16 bcd	7 bc	1 f	0 e	4 ab	14 cd	3 cd
11	7 d before planting Dual Magnum	1	PT/A	25 abc	9 abc	35 c-f	4 cde	5 ab	98 a-d	20 abc
12	7 d before planting Dual Magnum	2	PT/A	23 abc	10 a	59 bcd	6 bcd	5 ab	104 a-d	21 abc
13	1 d before planting Goal	8	OZ/A	28 ab	8 abc	77 bc	9 ab	4 ab	102 a-d	26 ab
14	1 d before planting Goal	16	OZ/A	16 bcd	7 bc	40 c-f	6 bcd	5 ab	59 a-d	13 a-d
15	1 d before planting V-10204	0.16	LB A/A	26 abc	7 bc	0 f	0 e	4 ab	15 cd	4 cd
16	1 d before planting V-10204	0.32	LB A/A	22 abc	7 bc	2 f	0 e	4 ab	5 d	1 d
17	1 d before planting Dual Magnum	1	PT/A	24 abc	8 abc	16 def	3 cde	4 ab	70 a-d	17 a-d
18	1 d before planting Dual Magnum	2	PT/A	18 abc	9 abc	21 def	2 cde	5 ab	96 a-d	21 abc
19	1 d after planting Goal	8	OZ/A	4 de	7 bc	21 def	3 cde	5 ab	143 a	29 ab
20	1 d after planting Goal	16	OZ/A	0 e	7 bc	5 ef	1 e	4 ab	86 a-d	21 abc
21	1 d after planting V-10204	0.16	LB A/A	25 abc	7 bc	3 ef	0 e	5 a	115 abc	18 a-d
22	1 d after planting V-10204	0.32	LB A/A	13 cd	6 c	0 f	0 e	5 ab	14 cd	3 cd
23	1 d after planting Dual Magnum	1	PT/A	16 bcd	9 abc	11 def	1 de	5 ab	124 ab	25 ab

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Pest Code	AVG4PLAN	biomass	biomass	biomass	biomass	biomass	biomass
Crop Code	CUUPE	CUMSA	CUMSA	CUMSA	CUUPE	CUUPE	CUUPE
BBCH Scale	BWT	BWT	BWT	BWT	BWT	BWT	BWT
Crop Variety							
Rating Date	Sep-25-07	Sep-06-07	Sep-06-07	Sep-06-07	Sep-06-07	Sep-06-07	Sep-06-07
Rating Data Type	ht	#	wt/g	wt/g	#	wt/g	wt/g
Rating Unit	cm	per plot	per plot	per plant	per plot	per plot	per plan
Assessed By							
Days After First/Last Applic.	39	20	20	20	20	20	20
ARM Action Codes	T18						T19
Trt Treatment	Rate						
No. Name	Rate Unit	49	51	52	53	55	56
24 1 d after planting		24 abc	7 abc	5 ef	1 e	4 ab	56 a-d
Dual Magnum	2 PT/A						13 a-d
25 Non-treated control		16 a-d	8 abc	98 ab	13 a	5 ab	142 a
LSD (P=.05)		11.3	2.1	43.6	4.4	1.3	90.3
Standard Deviation		6.9	1.3	26.4	2.6	0.8	54.7
CV		35.12	16.24	84.2	68.48	17.94	71.75
Bartlett's X2		26.067	13.373	89.868	78.857	14.609	49.171
P(Bartlett's X2)		0.298	0.769	0.001*	0.001*	0.624	0.002*

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

Column 43: T18 = @AVG([C45].[C48])

Column 49: T19 = [C56]/[C55]

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Pest Code	harv 1 CUMSA BVVT	harv 1 CUMSA BVVT	harv 2 CUMSA BVVT	harv 2 CUMSA BVVT	harv 3 CUMSA BVVT	harv 3 CUMSA BVVT	harv 4 CUMSA BVVT			
Crop Code										
BBCH Scale										
Crop Variety										
Rating Date	Sep-18-07	Sep-18-07	Sep-21-07	Sep-21-07	Sep-24-07	Sep-24-07	Sep-26-07			
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			
Assessed By										
Days After First/Last Applic.	32	32	35	35	38	38	40			
ARM Action Codes										
Trt No.	Treatment Name	Rate	Rate Unit	59	60	61	62	63	64	65
1	14 d before planting Goal	8	OZ/A	1 ab	1 ab	2 ab	1 ab	4 abc	1 bcd	3 a-d
2	14 d before planting Goal	16	OZ/A	1 ab	0 b	1 ab	0 ab	4 abc	2 ab	3 a-d
3	14 d before planting V-10204	0.16	LB A/A	0 b	0 b	0 b	0 b	3 a-d	1 bcd	1 bcd
4	14 d before planting V-10204	0.32	LB A/A	0 b	0 b	0 ab	0 ab	2 bcd	1 bcd	3 a-d
5	14 d before planting Dual Magnum	1	PT/A	1 ab	0 b	0 ab	0 ab	6 a	2 a	2 bcd
6	14 d before planting Dual Magnum	2	PT/A	0 b	0 b	1 ab	0 ab	2 bcd	1 bcd	1 cd
7	7 d before planting Goal	8	OZ/A	0 b	0 b	1 ab	1 ab	4 abc	2 abc	1 cd
8	7 d before planting Goal	16	OZ/A	0 b	0 b	2 a	1 a	4 ab	2 ab	2 bcd
9	7 d before planting V-10204	0.16	LB A/A	0 b	0 b	0 b	0 b	2 bcd	1 bcd	3 a-d
10	7 d before planting V-10204	0.32	LB A/A	0 b	0 b	0 b	0 b	2 bcd	1 bcd	2 bcd
11	7 d before planting Dual Magnum	1	PT/A	1 ab	0 b	1 ab	0 ab	3 a-d	1 bcd	3 a-d
12	7 d before planting Dual Magnum	2	PT/A	0 b	0 b	1 ab	1 ab	5 ab	2 ab	1 bcd
13	1 d before planting Goal	8	OZ/A	2 ab	1 ab	1 ab	1 ab	2 bcd	1 bcd	3 a-d
14	1 d before planting Goal	16	OZ/A	0 b	0 b	1 ab	0 ab	4 abc	2 ab	3 a-d
15	1 d before planting V-10204	0.16	LB A/A	0 b	0 b	0 b	0 b	0 d	0 d	1 cd
16	1 d before planting V-10204	0.32	LB A/A	0 b	0 b	0 b	0 b	0 d	0 d	0 d
17	1 d before planting Dual Magnum	1	PT/A	1 ab	0 b	1 ab	0 ab	2 bcd	1 bcd	4 abc
18	1 d before planting Dual Magnum	2	PT/A	0 b	0 b	1 ab	0 ab	3 a-d	1 bcd	2 bcd
19	1 d after planting Goal	8	OZ/A	0 b	0 b	0 b	0 b	2 bcd	1 bcd	2 bcd
20	1 d after planting Goal	16	OZ/A	0 b	0 b	0 ab	0 ab	1 cd	0 cd	3 a-d
21	1 d after planting V-10204	0.16	LB A/A	0 b	0 b	0 b	0 b	0 d	0 d	0 d
22	1 d after planting V-10204	0.32	LB A/A	0 b	0 b	0 b	0 b	0 d	0 d	0 d
23	1 d after planting Dual Magnum	1	PT/A	0 b	0 b	0 b	0 b	2 bcd	1 bcd	4 abc

University of Georgia

Pest Code	harv 1	harv 1	harv 2	harv 2	harv 3	harv 3	harv 4
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
BBCH Scale	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT
Crop Variety							
Rating Date	Sep-18-07	Sep-18-07	Sep-21-07	Sep-21-07	Sep-24-07	Sep-24-07	Sep-26-07
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
Assessed By							
Days After First/Last Applic.	32	32	35	35	38	38	40
ARM Action Codes							
Trt Treatment	Rate						
No. Name	Rate Unit	59	60	61	62	63	64
24 1 d after planting		0 b	0 b	0 ab	0 ab	2 bcd	1 bcd
Dual Magnum	2 PT/A						5 ab
25 Non-treated control		3 a	1 a	1 ab	0 ab	4 abc	1 abc
							6 a
LSD (P=.05)		1.9	0.9	1.5	0.7	2.9	1.1
Standard Deviation		1.1	0.5	0.9	0.4	1.8	0.6
CV		257.52	285.28	158.38	162.56	68.96	65.71
Bartlett's X2		21.638	31.169	11.303	17.348	19.717	29.106
P(Bartlett's X2)		0.061	0.003*	0.662	0.298	0.412	0.086
							3.1
							1.9
							79.16
							16.234
							0.642

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

University of Georgia

Pest Code	harv 4 CUMSA BVVT	harv 5 CUMSA BVVT	harv 5 CUMSA BVVT	harv 6 CUMSA BVVT	harv 6 CUMSA BVVT	harv 7 CUMSA BVVT	harv 7 CUMSA BVVT	harv 8 CUMSA BVVT			
Crop Code											
BBCH Scale											
Crop Variety											
Rating Date	Sep-26-07	Sep-28-07	Sep-28-07	Oct-01-07	Oct-01-07	Oct-01-07	Oct-01-07	Oct-05-07			
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			
Assessed By											
Days After First/Last Applic.	40	42	42	45	45	45	45	49			
ARM Action Codes											
Trt No.	Treatment Name	Rate	Rate Unit	66	67	68	69	70	71	72	73
1	14 d before planting Goal	8	OZ/A	1 a-d	4 a-e	1 abc	3 a-e	1 a-f	6 ab	2 ab	9 a
2	14 d before planting Goal	16	OZ/A	1 a-d	5 abc	2 ab	3 a-e	1 b-f	3 a-e	1 a-d	7 abc
3	14 d before planting V-10204	0.16	LB A/A	0 d	1 de	0 c	5 abc	2 a-f	2 b-e	1 bcd	3 a-d
4	14 d before planting V-10204	0.32	LB A/A	1 a-d	2 cde	1 bc	1 cde	0 def	3 a-e	1 a-d	8 abc
5	14 d before planting Dual Magnum	1	PT/A	1 bcd	1 de	0 c	7 a	2 a	6 ab	2 ab	6 a-d
6	14 d before planting Dual Magnum	2	PT/A	0 d	1 de	0 c	5 abc	2 a-d	3 a-e	1 a-d	4 a-d
7	7 d before planting Goal	8	OZ/A	0 d	3 a-e	1 abc	3 a-e	1 a-f	3 a-e	1 a-d	5 a-d
8	7 d before planting Goal	16	OZ/A	1 bcd	2 cde	1 abc	6 ab	2 abc	3 a-e	1 a-d	5 a-d
9	7 d before planting V-10204	0.16	LB A/A	1 bcd	4 a-d	1 abc	1 cde	0 def	7 a	3 a	9 ab
10	7 d before planting V-10204	0.32	LB A/A	1 bcd	3 b-e	1 abc	4 a-e	1 a-f	2 cde	0 cd	3 a-d
11	7 d before planting Dual Magnum	1	PT/A	1 a-d	2 cde	1 bc	4 a-d	2 a-e	4 a-e	1 a-d	4 a-d
12	7 d before planting Dual Magnum	2	PT/A	0 cd	6 a	2 a	7 a	3 a	3 a-e	1 a-d	6 a-d
13	1 d before planting Goal	8	OZ/A	1 a-d	6 ab	2 ab	5 abc	2 ab	2 cde	1 cd	9 ab
14	1 d before planting Goal	16	OZ/A	1 bcd	4 a-e	1 abc	5 abc	2 a-d	4 a-e	2 abc	4 a-d
15	1 d before planting V-10204	0.16	LB A/A	0 d	2 cde	1 bc	2 b-e	1 c-f	1 cde	0 cd	2 bcd
16	1 d before planting V-10204	0.32	LB A/A	0 d	1 de	0 c	0 de	0 ef	0 e	0 d	1 cd
17	1 d before planting Dual Magnum	1	PT/A	2 abc	3 a-e	1 abc	2 b-e	1 b-f	4 a-d	2 abc	7 abc
18	1 d before planting Dual Magnum	2	PT/A	1 bcd	4 a-e	1 abc	3 a-e	1 a-f	4 a-e	1 a-d	4 a-d
19	1 d after planting Goal	8	OZ/A	1 bcd	2 cde	0 c	3 a-e	1 a-f	3 a-e	1 a-d	3 a-d
20	1 d after planting Goal	16	OZ/A	1 a-d	2 cde	1 bc	1 cde	0 def	5 a-d	1 a-d	8 ab
21	1 d after planting V-10204	0.16	LB A/A	0 d	1 e	0 c	1 cde	0 def	1 de	0 cd	1 cd
22	1 d after planting V-10204	0.32	LB A/A	0 d	2 cde	1 bc	0 e	0 f	0 e	0 d	0 d
23	1 d after planting Dual Magnum	1	PT/A	2 abc	2 cde	1 bc	3 a-e	1 a-f	5 abc	2 abc	8 ab

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Pest Code	harv 4	harv 5	harv 5	harv 6	harv 6	harv 7	harv 7	harv 8
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
BBCH Scale	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT
Crop Variety								
Rating Date	Sep-26-07	Sep-28-07	Sep-28-07	Oct-01-07	Oct-01-07	Oct-01-07	Oct-01-07	Oct-05-07
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
Assessed By								
Days After First/Last Applic.	40	42	42	45	45	45	45	49
ARM Action Codes								
Trt Treatment	Rate							
No. Name	Rate Unit	66	67	68	69	70	71	72
24 1 d after planting		2 ab	4 a-e	1 abc	2 b-e	1 c-f	4 a-e	1 a-d
Dual Magnum	2 PT/A							
25 Non-treated control		2 a	3 a-e	1 abc	3 a-e	1 a-f	7 a	3 ab
LSD (P=.05)		1.1	3.0	1.1	3.6	1.3	3.5	1.4
Standard Deviation		0.7	1.8	0.6	2.2	0.8	2.1	0.8
CV		78.67	65.46	74.37	68.58	67.17	61.76	63.6
Bartlett's X2		34.867	18.85	37.474	24.621	23.993	23.76	35.29
P(Bartlett's X2)		0.029*	0.655	0.039*	0.37	0.404	0.36	0.036*

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

University of Georgia

Pest Code	harv 8 CUMSA BVVT	harv 9 CUMSA BVVT	harv 9 CUMSA BVVT	harv 10 CUMSA BVVT	harv 10 CUMSA BVVT	harv 11 CUMSA BVVT	harv 11 CUMSA BVVT	harv 12 CUMSA BVVT			
Crop Code											
BBCH Scale											
Crop Variety											
Rating Date	Oct-05-07	Oct-08-07	Oct-08-07	Oct-10-07	Oct-10-07	Oct-11-07	Oct-11-07	Oct-12-07			
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			
Assessed By											
Days After First/Last Applic.	49	52	52	54	54	55	55	56			
ARM Action Codes											
Trt No.	Treatment Name	Rate	Rate Unit	74	75	76	77	78	79	80	81
1	14 d before planting Goal	8	OZ/A	3 a	7 bcd	3 b-e	6 a-d	2 a-d	1 ab	0 a	6 ab
2	14 d before planting Goal	16	OZ/A	2 a-d	9 a-d	5 a-d	5 a-e	2 a-d	0 ab	0 a	3 bcd
3	14 d before planting V-10204	0.16	LB A/A	1 a-d	7 bcd	3 b-e	6 a-d	2 a-d	1 ab	0 a	4 a-d
4	14 d before planting V-10204	0.32	LB A/A	2 a-d	5 c-f	2 d-g	6 abc	2 a-d	1 ab	0 a	3 a-d
5	14 d before planting Dual Magnum	1	PT/A	2 a-d	5 c-f	3 b-g	5 a-e	2 a-d	2 a	0 a	6 ab
6	14 d before planting Dual Magnum	2	PT/A	2 a-d	6 b-e	2 d-g	9 a	4 ab	0 b	0 a	5 abc
7	7 d before planting Goal	8	OZ/A	2 a-d	7 bcd	4 b-e	6 abc	2 a-d	0 ab	0 a	3 bcd
8	7 d before planting Goal	16	OZ/A	2 a-d	10 abc	5 a-d	4 a-e	2 a-d	1 ab	0 a	8 a
9	7 d before planting V-10204	0.16	LB A/A	3 ab	4 def	2 efg	7 ab	3 abc	1 ab	0 a	4 a-d
10	7 d before planting V-10204	0.32	LB A/A	1 a-d	6 b-e	2 d-g	4 a-e	1 a-d	0 b	0 a	4 a-d
11	7 d before planting Dual Magnum	1	PT/A	2 a-d	9 abc	4 b-e	6 a-d	3 a-d	0 ab	0 a	5 abc
12	7 d before planting Dual Magnum	2	PT/A	2 a-d	14 a	7 a	7 abc	4 a	0 b	0 a	3 a-d
13	1 d before planting Goal	8	OZ/A	3 ab	11 ab	5 ab	4 a-e	2 a-d	0 ab	0 a	3 a-d
14	1 d before planting Goal	16	OZ/A	2 a-d	11 ab	5 abc	7 abc	2 a-d	0 ab	0 a	6 ab
15	1 d before planting V-10204	0.16	LB A/A	1 bcd	6 b-e	2 c-g	2 cde	1 cd	0 b	0 a	2 bcd
16	1 d before planting V-10204	0.32	LB A/A	0 cd	1 ef	0 fg	0 de	0 cd	0 b	0 a	0 d
17	1 d before planting Dual Magnum	1	PT/A	3 abc	7 bcd	3 b-e	4 a-e	2 a-d	0 b	0 a	5 a-d
18	1 d before planting Dual Magnum	2	PT/A	2 a-d	8 bcd	4 b-e	3 b-e	1 a-d	0 ab	0 a	7 ab
19	1 d after planting Goal	8	OZ/A	1 a-d	7 bcd	3 b-f	5 a-e	3 a-d	1 ab	0 a	3 bcd
20	1 d after planting Goal	16	OZ/A	3 a-d	5 c-f	2 d-g	5 a-e	2 a-d	0 b	0 a	3 bcd
21	1 d after planting V-10204	0.16	LB A/A	0 cd	1 ef	1 fg	2 b-e	1 bcd	0 b	0 a	0 cd
22	1 d after planting V-10204	0.32	LB A/A	0 d	0 f	0 g	0 e	0 d	0 b	0 a	0 cd
23	1 d after planting Dual Magnum	1	PT/A	3 a	9 a-d	5 a-d	5 a-e	2 a-d	1 ab	0 a	6 ab

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Pest Code	harv 8	harv 9	harv 9	harv 10	harv 10	harv 11	harv 11	harv 12
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
BBCH Scale	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT
Crop Variety								
Rating Date	Oct-05-07	Oct-08-07	Oct-08-07	Oct-10-07	Oct-10-07	Oct-11-07	Oct-11-07	Oct-12-07
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
Assessed By								
Days After First/Last Applic.	49	52	52	54	54	55	55	56
ARM Action Codes								
Trt Treatment	Rate							
No. Name	Rate Unit	74	75	76	77	78	79	80
24 1 d after planting		3 a	7 bcd	4 b-e	4 a-e	2 a-d	0 b	0 a
Dual Magnum	2 PT/A							6 ab
25 Non-treated control		2 a-d	6 b-e	2 d-g	4 a-e	2 a-d	0 ab	0 a
								6 ab
LSD (P=.05)		2.2	4.5	2.3	4.5	2.4	1.3	0.4
Standard Deviation		1.3	2.7	1.4	2.7	1.4	0.8	0.3
CV		67.16	40.66	43.2	59.2	71.42	179.6	181.09
Bartlett's X2		27.6	22.951	34.943	22.344	33.131	8.266	6.6
P(Bartlett's X2)		0.231	0.404	0.053	0.50	0.079	0.875	0.949
								4.1
								2.5
								60.72
								21.567
								0.486

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

University of Georgia

Pest Code	harv 12 CUMSA BVVT	harv 13 CUMSA BVVT	harv 13 CUMSA BVVT	harv 14 CUMSA BVVT	harv 14 CUMSA BVVT	harv 1-4 CUMSA BVVT	harv 1-4 CUMSA BVVT	harv 1-8 CUMSA BVVT	harv 1-8 CUMSA BVVT	
Crop Code										
BBCH Scale										
Crop Variety										
Rating Date	Oct-12-07	Oct-16-07	Oct-16-07	Oct-18-07	Oct-18-07					
Rating Data Type	wt/lb	#	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	per plot	
Assessed By										
Days After First/Last Applic.	56	60	60	62	62					
ARM Action Codes						T5	T6	T7	T8	
Trt Treatment	Rate									
No. Name	Rate Unit	82	83	84	85	86	87	88	89	90
1 14 d before planting Goal	8 OZ/A	2 ab	3 abc	1 bcd	9 abc	5 abc	9 ab	4 ab	32 ab	12 ab
2 14 d before planting Goal	16 OZ/A	1 bcd	6 abc	4 ab	11 ab	6 a	8 ab	3 ab	27 ab	10 abc
3 14 d before planting V-10204	0.16 LB A/A	2 abc	5 abc	2 a-d	9 abc	4 a-d	5 bcd	1 bcd	16 b-e	5 b-f
4 14 d before planting V-10204	0.32 LB A/A	1 bcd	5 abc	2 a-d	7 a-e	3 a-f	5 bcd	2 bcd	19 abc	7 a-f
5 14 d before planting Dual Magnum	1 PT/A	3 ab	5 abc	3 a-d	9 abc	4 a-f	9 ab	4 ab	29 ab	11 abc
6 14 d before planting Dual Magnum	2 PT/A	2 a-d	4 abc	3 a-d	8 a-e	4 a-f	4 bcd	2 bcd	17 a-d	7 a-e
7 7 d before planting Goal	8 OZ/A	1 bcd	7 ab	4 ab	7 a-f	3 c-g	6 bcd	3 bcd	21 abc	8 a-d
8 7 d before planting Goal	16 OZ/A	4 a	6 abc	3 a-d	8 a-e	4 a-d	8 ab	4 ab	25 ab	10 abc
9 7 d before planting V-10204	0.16 LB A/A	1 bcd	5 abc	3 abc	9 abc	3 b-g	5 bcd	2 bcd	26 ab	9 abc
10 7 d before planting V-10204	0.32 LB A/A	1 bcd	3 abc	2 a-d	7 a-f	3 b-g	4 bcd	2 bcd	15 b-e	5 c-f
11 7 d before planting Dual Magnum	1 PT/A	2 abc	8 a	4 ab	10 ab	5 abc	7 ab	3 abc	21 abc	8 a-d
12 7 d before planting Dual Magnum	2 PT/A	2 bcd	9 a	5 a	12 a	6 ab	8 ab	3 ab	31 ab	11 abc
13 1 d before planting Goal	8 OZ/A	2 bcd	5 abc	2 a-d	7 a-f	4 a-f	8 ab	3 ab	30 ab	11 abc
14 1 d before planting Goal	16 OZ/A	2 abc	8 a	4 ab	9 abc	4 a-f	8 ab	3 ab	25 ab	10 abc
15 1 d before planting V-10204	0.16 LB A/A	1 bcd	4 abc	2 a-d	2 fgh	1 fgh	1 cd	0 cd	8 cde	2 def
16 1 d before planting V-10204	0.32 LB A/A	0 d	0 bc	0 cd	2 gh	1 gh	0 d	0 d	2 de	0 f
17 1 d before planting Dual Magnum	1 PT/A	3 ab	7 a	3 a-d	8 a-e	4 a-e	8 ab	3 ab	25 ab	9 abc
18 1 d before planting Dual Magnum	2 PT/A	3 ab	4 abc	2 a-d	5 c-g	3 c-h	7 bc	2 bcd	22 abc	8 a-d
19 1 d after planting Goal	8 OZ/A	1 bcd	6 abc	3 a-d	3 d-h	1 d-h	4 bcd	2 bcd	15 b-e	6 a-f
20 1 d after planting Goal	16 OZ/A	1 bcd	5 abc	3 a-d	8 a-d	4 a-f	5 bcd	2 bcd	21 abc	6 a-f
21 1 d after planting V-10204	0.16 LB A/A	0 cd	4 abc	2 a-d	3 e-h	1 e-h	0 d	0 d	3 de	1 ef
22 1 d after planting V-10204	0.32 LB A/A	0 cd	0 c	0 d	0 h	0 h	0 d	0 d	2 e	1 f
23 1 d after planting Dual Magnum	1 PT/A	2 abc	8 a	4 ab	7 a-e	4 a-e	7 bc	3 bcd	25 ab	9 abc

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Pest Code	harv 12	harv 13	harv 13	harv 14	harv 14	harv 1-4	harv 1-4	harv 1-8	harv 1-8
Crop Code	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA	CUMSA
BBCH Scale	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT
Crop Variety									
Rating Date	Oct-12-07	Oct-16-07	Oct-16-07	Oct-18-07	Oct-18-07				
Rating Data Type	wt/lb	#	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	per plot
Assessed By									
Days After First/Last Applic.	56	60	60	62	62				
ARM Action Codes						T5	T6	T7	T8
Trt Treatment	Rate								
No. Name	Rate Unit	82	83	84	85	86	87	88	89
24 1 d after planting		2 ab	7 a	4 ab	6 b-g	3 c-g	7 ab	3 abc	25 ab
Dual Magnum	2 PT/A								9 abc
25 Non-treated control		2 a-d	6 abc	3 a-d	8 a-d	4 a-e	13 a	5 a	33 a
LSD (P=.05)		1.8	5.7	2.7	4.4	2.4	5.5	2.2	13.6
Standard Deviation		1.1	3.4	1.6	2.7	1.4	3.3	1.3	8.2
CV		63.71	65.71	60.24	38.38	43.34	56.27	57.86	40.09
Bartlett's X2		36.344	19.386	29.502	16.819	26.193	19.466	19.805	36.597
P(Bartlett's X2)		0.038*	0.679	0.164	0.818	0.292	0.555	0.534	0.048*
									0.018*

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

Column 78: T5 = ([C59]+[C61]+[C63]+[C65])

Column 79: T6 = ([C60]+[C62]+[C64]+[C66])

Column 80: T7 = ([C87]+[C67]+[C69]+[C71]+[C73])

Column 81: T8 = ([C88]+[C68]+[C70]+[C72]+[C74])

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Pest Code	harv1-14	harv1-14	harv 1	harv 1	harv 2	harv 2	harv 3	harv 3
Crop Code	CUMSA	CUMSA	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE
BBCH Scale	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT
Crop Variety								
Rating Date			Sep-11-07	Sep-11-07	Sep-14-07	Sep-14-07	Sep-17-07	Sep-17-07
Rating Data Type	#	wt/lb	#	wt/g	#	wt/lb	#	wt/lb
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot
Assessed By								
Days After First/Last Applic.			25	25	28	28	31	31
ARM Action Codes	T9	T10						
Trt Treatment	Rate							
No. Name	Rate Unit	91	92	94	95	96	97	98
24 1 d after planting		56 abc	24 abc	0 ab	0 b	0 a	0 a	0 ab
Dual Magnum	2 PT/A							
25 Non-treated control		62 abc	25 abc	0 b	0 b	0 a	0 a	0 ab
LSD (P=.05)		21.0	9.6	1.2	0.1	0.7	0.0	0.5
Standard Deviation		12.7	5.8	0.7	0.0	0.4	0.0	0.3
CV		26.26	28.15	263.93	344.33	349.16	343.21	458.26
Bartlett's X2		37.396	35.95	9.539	21.981	2.985	2.688	1.663
P(Bartlett's X2)		0.04*	0.056	0.389	0.005*	0.811	0.847	0.645

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

Column 82: T9 = ([C89]+[C75]+[C77]+[C79]+[C81]+[C83]+[C85])

Column 83: T10 = ([C90]+[C76]+[C78]+[C80]+[C82]+[C84]+[C86])

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Pest Code	harv 4 CUUPE	harv 4 CUUPE	harv 5 CUUPE	harv 5 CUUPE	harv 6 CUUPE	harv 6 CUUPE	harv 7 CUUPE		
Crop Code									
BBCH Scale									
Crop Variety									
Rating Date	Sep-19-07	Sep-19-07	Sep-24-07	Sep-24-07	Sep-26-07	Sep-26-07	Sep-28-07		
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		
Assessed By									
Days After First/Last Applic.	33	33	38	38	40	40	42		
ARM Action Codes									
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit	Unit	Unit	Unit	Unit	Unit		
		100	101	102	103	104	105		
							106		
1	14 d before planting Goal	8 OZ/A	0 a	0 a	0 c	0 c	1 ab	0 a	3 ab
2	14 d before planting Goal	16 OZ/A	0 a	0 a	1 abc	0 abc	2 ab	0 a	8 ab
3	14 d before planting V-10204	0.16 LB A/A	0 a	0 a	0 bc	0 bc	1 b	0 a	3 ab
4	14 d before planting V-10204	0.32 LB A/A	0 a	0 a	3 abc	1 a	4 ab	0 a	4 ab
5	14 d before planting Dual Magnum	1 PT/A	0 a	0 a	2 abc	0 abc	3 ab	0 a	7 ab
6	14 d before planting Dual Magnum	2 PT/A	0 a	0 a	0 c	0 c	0 b	0 a	4 ab
7	7 d before planting Goal	8 OZ/A	0 a	0 a	1 abc	0 abc	1 b	0 a	1 b
8	7 d before planting Goal	16 OZ/A	0 a	0 a	0 bc	0 c	1 ab	0 a	1 b
9	7 d before planting V-10204	0.16 LB A/A	0 a	0 a	4 a	1 ab	5 a	0 a	11 a
10	7 d before planting V-10204	0.32 LB A/A	0 a	0 a	1 abc	0 abc	2 ab	0 a	5 ab
11	7 d before planting Dual Magnum	1 PT/A	0 a	0 a	1 abc	0 abc	2 ab	0 a	6 ab
12	7 d before planting Dual Magnum	2 PT/A	0 a	0 a	2 abc	0 abc	4 ab	0 a	7 ab
13	1 d before planting Goal	8 OZ/A	0 a	0 a	4 ab	1 abc	3 ab	0 a	11 a
14	1 d before planting Goal	16 OZ/A	0 a	0 a	1 abc	0 bc	0 b	0 a	3 ab
15	1 d before planting V-10204	0.16 LB A/A	0 a	0 a	2 abc	0 abc	4 ab	0 a	4 ab
16	1 d before planting V-10204	0.32 LB A/A	0 a	0 a	1 abc	0 abc	4 ab	0 a	4 ab
17	1 d before planting Dual Magnum	1 PT/A	1 a	0 a	0 bc	0 c	1 b	0 a	5 ab
18	1 d before planting Dual Magnum	2 PT/A	0 a	0 a	2 abc	0 abc	1 b	0 a	4 ab
19	1 d after planting Goal	8 OZ/A	0 a	0 a	0 c	0 c	0 b	0 a	1 b
20	1 d after planting Goal	16 OZ/A	0 a	0 a	0 c	0 c	0 b	0 a	0 b
21	1 d after planting V-10204	0.16 LB A/A	0 a	0 a	2 abc	0 abc	1 b	0 a	4 ab
22	1 d after planting V-10204	0.32 LB A/A	0 a	0 a	1 abc	0 abc	1 b	0 a	3 ab
23	1 d after planting Dual Magnum	1 PT/A	0 a	0 a	0 c	0 c	0 b	0 a	0 b

University of Georgia

Pest Code	harv 4	harv 4	harv 5	harv 5	harv 6	harv 6	harv 7
Crop Code	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE
BBCH Scale	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT
Crop Variety							
Rating Date	Sep-19-07	Sep-19-07	Sep-24-07	Sep-24-07	Sep-26-07	Sep-26-07	Sep-28-07
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
Assessed By							
Days After First/Last Applic.	33	33	38	38	40	40	42
ARM Action Codes							
Trt Treatment							
No. Name	100	101	102	103	104	105	106
Rate Unit							
24 1 d after planting	0 a	0 a	2 abc	0 abc	1 ab	0 a	4 ab
Dual Magnum							
2 PT/A							
25 Non-treated control	0 a	0 a	1 abc	0 abc	0 b	0 a	3 ab
LSD (P=.05)	0.6	0.1	2.9	0.5	3.6	0.3	7.5
Standard Deviation	0.4	0.0	1.8	0.3	2.2	0.2	4.6
CV	377.96	370.71	142.28	165.68	130.99	199.21	108.1
Bartlett's X2	2.015	1.822	18.657	39.362	16.245	26.144	34.403
P(Bartlett's X2)	0.847	0.873	0.479	0.004*	0.641	0.097	0.06

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

University of Georgia

Pest Code	harv 7 CUUPE	harv 8 CUUPE	harv 8 CUUPE	harv 9 CUUPE	harv 9 CUUPE	harv 10 CUUPE	harv 10 CUUPE	harv 11 CUUPE		
Crop Code	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT		
BBCH Scale										
Crop Variety										
Rating Date	Sep-28-07	Oct-01-07	Oct-01-07	Oct-03-07	Oct-03-07	Oct-05-07	Oct-05-07	Oct-08-07		
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		
Assessed By										
Days After First/Last Applic.	42	45	45	47	47	49	49	52		
ARM Action Codes										
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit	Unit	Unit	Unit	Unit	Unit	Unit		
107			108		109		110			
111			112		113		114			
1	14 d before planting Goal	8 OZ/A	0 bc	1 b	0 b	2 bc	0 bc	1 bcd	0 d	4 a-e
2	14 d before planting Goal	16 OZ/A	1 abc	2 b	0 b	4 abc	0 abc	4 a-d	1 a-d	5 a-e
3	14 d before planting V-10204	0.16 LB A/A	0 bc	0 b	0 b	2 bc	0 bc	1 bcd	0 bcd	3 b-e
4	14 d before planting V-10204	0.32 LB A/A	0 abc	3 b	0 b	4 abc	1 abc	6 ab	1 abc	7 a-d
5	14 d before planting Dual Magnum	1 PT/A	1 abc	3 b	1 b	4 abc	1 abc	2 a-d	0 a-d	4 a-e
6	14 d before planting Dual Magnum	2 PT/A	0 abc	1 b	0 b	2 bc	0 bc	1 bcd	0 cd	4 a-e
7	7 d before planting Goal	8 OZ/A	0 c	1 b	0 b	4 abc	1 abc	5 a-d	1 a-d	3 b-e
8	7 d before planting Goal	16 OZ/A	0 c	0 b	0 b	2 bc	0 bc	2 a-d	0 a-d	2 b-e
9	7 d before planting V-10204	0.16 LB A/A	1 ab	9 a	1 a	6 ab	1 abc	7 a	1 ab	9 a
10	7 d before planting V-10204	0.32 LB A/A	0 abc	1 b	0 b	3 bc	0 bc	3 a-d	0 a-d	4 a-e
11	7 d before planting Dual Magnum	1 PT/A	0 abc	1 b	0 b	5 abc	1 abc	2 a-d	0 a-d	8 abc
12	7 d before planting Dual Magnum	2 PT/A	0 abc	1 b	0 b	5 abc	1 abc	4 a-d	0 a-d	8 a-d
13	1 d before planting Goal	8 OZ/A	1 a	4 b	1 b	10 a	1 a	6 abc	1 a-d	8 ab
14	1 d before planting Goal	16 OZ/A	0 bc	0 b	0 b	2 bc	0 bc	2 a-d	0 cd	2 cde
15	1 d before planting V-10204	0.16 LB A/A	0 abc	2 b	0 b	7 ab	1 ab	5 a-d	0 a-d	8 abc
16	1 d before planting V-10204	0.32 LB A/A	0 abc	3 b	0 b	6 ab	1 abc	4 a-d	0 a-d	6 a-e
17	1 d before planting Dual Magnum	1 PT/A	1 abc	2 b	0 b	4 bc	0 abc	5 a-d	1 a-d	7 a-d
18	1 d before planting Dual Magnum	2 PT/A	0 abc	0 b	0 b	4 bc	1 abc	5 a-d	0 a-d	4 a-e
19	1 d after planting Goal	8 OZ/A	0 c	0 b	0 b	1 bc	0 c	1 bcd	0 a-d	2 de
20	1 d after planting Goal	16 OZ/A	0 c	0 b	0 b	0 c	0 c	0 d	0 d	0 e
21	1 d after planting V-10204	0.16 LB A/A	0 bc	0 b	0 b	5 abc	1 abc	5 a-d	1 a	4 a-e
22	1 d after planting V-10204	0.32 LB A/A	0 bc	1 b	0 b	1 bc	0 c	2 a-d	0 a-d	3 b-e
23	1 d after planting Dual Magnum	1 PT/A	0 c	1 b	0 b	2 bc	0 bc	0 cd	0 d	3 b-e

University of Georgia

Pest Code	harv 7	harv 8	harv 8	harv 9	harv 9	harv 10	harv 10	harv 11
Crop Code	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE
BBCH Scale	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT	BVVT
Crop Variety								
Rating Date	Sep-28-07	Oct-01-07	Oct-01-07	Oct-03-07	Oct-03-07	Oct-05-07	Oct-05-07	Oct-08-07
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
Assessed By								
Days After First/Last Applic.	42	45	45	47	47	49	49	52
ARM Action Codes								
Trt Treatment	Rate							
No. Name	Rate Unit	107	108	109	110	111	112	113
24 1 d after planting		0 abc	3 b	0 b	4 abc	1 abc	5 a-d	0 a-d
Dual Magnum	2 PT/A							
25 Non-treated control		0 abc	1 b	0 b	2 bc	0 bc	3 a-d	0 a-d
LSD (P=.05)		0.6	3.4	0.6	5.1	0.8	4.6	0.6
Standard Deviation		0.4	2.1	0.3	3.1	0.5	2.8	0.4
CV		112.77	124.42	134.96	84.94	95.27	82.15	98.91
Bartlett's X2		37.281	28.936	35.896	25.951	35.581	21.484	40.345
P(Bartlett's X2)		0.03*	0.116	0.022*	0.303	0.045*	0.552	0.014*

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

University of Georgia

Pest Code	harv 11	harv 12	harv 12	harv 13	harv 13	harv 14	harv 14	harv 15
Crop Code	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE
BBCH Scale	BWVT	BWVT	BWVT	BWVT	BWVT	BWVT	BWVT	BWVT
Crop Variety								
Rating Date	Oct-08-07	Oct-10-07	Oct-10-07	Oct-11-07	Oct-11-07	Oct-12-07	Oct-12-07	Oct-16-07
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
Assessed By								
Days After First/Last Applic.	52	54	54	55	55	56	56	60
ARM Action Codes								
Trt Treatment	Rate							
No. Name	Rate Unit	115	116	117	118	119	120	121
24 1 d after planting		1 a-d	2 a-d	0 ab	11 abc	2 ab	3 ab	1 abc
Dual Magnum	2 PT/A							7 a-e
25 Non-treated control		0 bcd	1 cd	0 b	11 ab	2 abc	4 ab	0 abc
								5 a-f
LSD (P=.05)		1.0	4.1	0.5	6.0	1.0	3.9	0.6
Standard Deviation		0.6	2.5	0.3	3.7	0.6	2.4	0.3
CV		81.42	88.64	105.55	54.94	66.6	86.96	99.64
Bartlett's X2		28.28	24.772	28.832	10.179	26.367	18.241	31.224
P(Bartlett's X2)		0.205	0.308	0.15	0.965	0.193	0.744	0.117
								0.534

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

University of Georgia

Pest Code	harv 15 CUUPE	harv 16 CUUPE	harv 16 CUUPE	harv1-4 CUUPE	harv1-4 CUUPE	harv1-8 CUUPE	harv1-8 CUUPE	harv1-16 CUUPE	harv1-16 CUUPE		
Crop Code	BVWT	BVWT	BVWT	BVWT	BVWT	BVWT	BVWT	BVWT	BVWT		
BBCH Scale											
Crop Variety											
Rating Date	Oct-16-07	Oct-18-07	Oct-18-07								
Rating Data Type	wt/lb	#	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	per plot		
Assessed By											
Days After First/Last Applic.	60	62	62								
ARM Action Codes				T11	T12	T13	T14	T15	T16		
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit		
		123	124	125	126	127	128	129	130		
		131									
1	14 d before planting Goal	8 OZ/A	0 cd	5 abc	1 bcd	2 a	0 a	8 bc	1 bc	36 b-e	4 bcd
2	14 d before planting Goal	16 OZ/A	1 a-d	4 abc	1 a-d	1 ab	0 a	14 abc	1 bc	56 a-d	8 abc
3	14 d before planting V-10204	0.16 LB A/A	0 cd	3 abc	0 cd	0 ab	0 a	4 c	0 c	26 b-e	3 bcd
4	14 d before planting V-10204	0.32 LB A/A	1 a-d	6 ab	1 abc	0 ab	0 a	14 abc	1 bc	53 a-d	7 abc
5	14 d before planting Dual Magnum	1 PT/A	1 a-d	7 ab	1 a-d	2 ab	0 a	16 abc	2 abc	58 abc	7 a-d
6	14 d before planting Dual Magnum	2 PT/A	1 bcd	5 abc	0 bcd	1 ab	0 a	5 bc	1 bc	34 b-e	5 a-d
7	7 d before planting Goal	8 OZ/A	2 a-d	3 bc	0 bcd	1 ab	0 a	5 c	0 c	39 a-e	7 a-d
8	7 d before planting Goal	16 OZ/A	0 cd	6 ab	0 bcd	0 b	0 a	3 c	0 c	32 b-e	4 bcd
9	7 d before planting V-10204	0.16 LB A/A	3 a	6 ab	1 ab	0 b	0 a	29 a	3 a	82 a	12 a
10	7 d before planting V-10204	0.32 LB A/A	1 a-d	3 bc	0 bcd	1 ab	0 a	10 bc	1 bc	35 b-e	4 bcd
11	7 d before planting Dual Magnum	1 PT/A	1 a-d	6 ab	1 abc	0 ab	0 a	10 bc	1 bc	54 a-d	7 abc
12	7 d before planting Dual Magnum	2 PT/A	1 a-d	9 a	1 a	1 ab	0 a	16 abc	1 bc	67 ab	9 ab
13	1 d before planting Goal	8 OZ/A	2 ab	5 abc	1 abc	1 ab	0 a	22 ab	2 ab	80 a	11 a
14	1 d before planting Goal	16 OZ/A	1 a-d	4 abc	0 bcd	1 ab	0 a	5 bc	0 c	36 b-e	4 bcd
15	1 d before planting V-10204	0.16 LB A/A	2 abc	5 abc	1 bcd	1 ab	0 a	13 abc	1 bc	59 abc	9 abc
16	1 d before planting V-10204	0.32 LB A/A	2 a-d	6 ab	1 abc	0 b	0 a	13 abc	1 bc	51 a-d	7 a-d
17	1 d before planting Dual Magnum	1 PT/A	3 ab	5 abc	0 bcd	1 ab	0 a	9 bc	1 bc	54 a-d	8 abc
18	1 d before planting Dual Magnum	2 PT/A	2 abc	4 abc	0 bcd	0 b	0 a	7 bc	1 c	42 a-e	6 a-d
19	1 d after planting Goal	8 OZ/A	0 cd	3 bc	0 cd	0 b	0 a	1 c	0 c	13 de	2 cd
20	1 d after planting Goal	16 OZ/A	0 d	0 c	0 d	0 b	0 a	0 c	0 c	0 e	0 d
21	1 d after planting V-10204	0.16 LB A/A	2 a-d	4 abc	1 abc	0 b	0 a	7 bc	1 bc	40 a-e	6 a-d
22	1 d after planting V-10204	0.32 LB A/A	1 a-d	2 bc	0 cd	0 b	0 a	6 bc	0 c	20 cde	2 bcd
23	1 d after planting Dual Magnum	1 PT/A	0 cd	4 abc	0 bcd	1 ab	0 a	2 c	0 c	25 b-e	3 bcd

University of Georgia

Pest Code	harv 15	harv 16	harv 16	harv1-4	harv1-4	harv1-8	harv1-8	harv1-16	harv1-16
Crop Code	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE	CUUPE
BBCH Scale	BVWT	BVWT	BVWT	BVWT	BVWT	BVWT	BVWT	BVWT	BVWT
Crop Variety									
Rating Date	Oct-16-07	Oct-18-07	Oct-18-07						
Rating Data Type	wt/lb	#	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	per plot
Assessed By									
Days After First/Last Applic.	60	62	62						
ARM Action Codes				T11	T12	T13	T14	T15	T16
Trt Treatment									
Rate									
No. Name	123	124	125	126	127	128	129	130	131
24 1 d after planting	2 abc	4 abc	1 bcd	1 ab	0 a	11 bc	1 bc	51 a-d	8 abc
Dual Magnum	2 PT/A								
25 Non-treated control	1 a-d	6 ab	1 a-d	1 ab	0 a	5 bc	1 bc	40 a-e	5 a-d
LSD (P=.05)	1.6	4.5	0.6	1.6	0.1	14.5	1.5	36.1	5.9
Standard Deviation	0.9	2.8	0.4	1.0	0.1	8.8	0.9	21.9	3.6
CV	78.47	59.02	64.02	170.03	204.44	94.05	101.61	50.58	60.63
Bartlett's X2	30.267	21.655	6.803	11.395	21.579	35.364	30.146	15.949	14.105
P(Bartlett's X2)	0.142	0.541	1.00	0.784	0.119	0.048*	0.145	0.857	0.924

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

Column 116: T11 = ([C94]+[C96]+[C98]+[C100])

Column 117: T12 = ([C95]+[C97]+[C99]+[C101])

Column 118: T13 = ([C126]+[C102]+[C104]+[C106]+[C108])

Column 119: T14 = ([C127]+[C103]+[C105]+[C107]+[C109])

Column 120: T15 = ([C128]+[C110]+[C112]+[C114]+[C116]+[C118]+[C120]+[C122]+[C124])

Column 121: T16 = ([C129]+[C111]+[C113]+[C115]+[C117]+[C119]+[C121]+[C123]+[C125])

University of Georgia

Second crop cucumber and squash response to Goal, V-10204, and Dual Magnum.

Trial ID: Veg39-07
Location: TVP

Protocol ID:
Study Director: Stanley Culpepper
Investigator: Stanley Culpepper

General Trial Information

Study Director: Stanley Culpepper **Title:** Ext Weed Science
Affiliation: University of Georgia
Postal Code: 31794 **E-mail:** _____

Investigator: Stanley Culpepper **Title:** Ext Weed Science
Affiliation: University of Georgia
Postal Code: 31794 **E-mail:** _____

Keywords:

Trial Location

City: Tifton **Trial Status:** completed
State/Prov.: GA **Trial Reliability:** fair
Postal Code: 31794 **Initiation Date:** Aug-04-07
Country: USA **Planned Completion Date:** _____
_ -Latitude of LL Corner °: _____ _ -Longitude of LL Corner °: _____
Altitude of LL Corner: _____ **Unit:** _____ **Angle y-axis to North °:** _____
Map Reference: _____
Directions:

Conducted Under GLP: _ **Official Trial Code:** _____
Conducted Under GEP: _ **Other Trial Code:** _____

	Guideline	Description
1.		

Objectives:

Conclusions:

Cooperator/Landowner

Cooperator: _____ **Country:** _____
Organization: _____ **Phone No:** _____
Address 1: _____ **Fax No:** _____
Address 2: _____
City: _____
State/Prov: _____
Postal Code: _____ **E-mail:** _____

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Crop Description	
Crop 1: CUMSA Cucumis sativus Cucumber	
Variety: Thunder	Description: _____
BBCH Scale: BVVT	Planting Date: Aug-16-07
Planting Method: transplant	Rate, Unit: 1 12 inch
Depth, Unit: 1.5 in	Perennial Age, Unit: _____
Row Spacing, Unit: 6 foot	Spacing Within Row, Unit: 12 inch
Seed Bed: mulched	Soil Temperature, Unit: 108 F
Soil Moisture: drip	Emergence Date: _____
Harvest Date: _____	Harvest Equipment: _____
Harvested Width, Unit: _____	Harvested Length, Unit: _____
% Standard Moisture: _____	Moisture Meter: _____
Weighing Equipment: _____	
Crop 2: CUMSA Cucumis sativus Cucumber	
Variety: Thunder	Description: _____
BBCH Scale: BVVT	Planting Date: Aug-16-07
Planting Method: seeded	Rate, Unit: 2 12 inch
Depth, Unit: 1 in	Perennial Age, Unit: _____
Row Spacing, Unit: 6 foot	Spacing Within Row, Unit: 12 inch
Seed Bed: mulched	Soil Temperature, Unit: 108 F
Soil Moisture: drip	Emergence Date: _____
Harvest Date: _____	Harvest Equipment: _____
Harvested Width, Unit: _____	Harvested Length, Unit: _____
% Standard Moisture: _____	Moisture Meter: _____
Weighing Equipment: _____	
Crop 3: CUUPE Cucurbita pepo Edible gourd	
Variety: Prelude II	Description: _____
BBCH Scale: BVVT	Planting Date: Aug-16-07
Planting Method: transplant	Rate, Unit: 1 12 inch
Depth, Unit: 1.5 in	Perennial Age, Unit: _____
Row Spacing, Unit: 6 foot	Spacing Within Row, Unit: 12 inch
Seed Bed: mulched	Soil Temperature, Unit: 108 F
Soil Moisture: drip	Emergence Date: _____
Harvest Date: _____	Harvest Equipment: _____
Harvested Width, Unit: _____	Harvested Length, Unit: _____
% Standard Moisture: _____	Moisture Meter: _____
Weighing Equipment: _____	
Crop 4: CUUPE Cucurbita pepo Edible gourd	
Variety: Prelude II	Description: _____
BBCH Scale: BVVT	Planting Date: Aug-16-07
Planting Method: seeded	Rate, Unit: 2 12 inch
Depth, Unit: 1.5 in	Perennial Age, Unit: _____
Row Spacing, Unit: 6 foot	Spacing Within Row, Unit: 12 inch
Seed Bed: mulched	Soil Temperature, Unit: 108 F
Soil Moisture: drip	Emergence Date: _____
Harvest Date: _____	Harvest Equipment: _____
Harvested Width, Unit: _____	Harvested Length, Unit: _____
% Standard Moisture: _____	Moisture Meter: _____
Weighing Equipment: _____	

Pest Description	
Pest 1 Type: _	Code: _____
Common Name: _____	
Description: _____	

University of Georgia

Site and Design

Plot Width, Unit: 6 FT Site Type: Tifton Vegetable Parm (TVP)
 Plot Length, Unit: 30 FT Tillage Type: Conventional
 Replications: 3 Study Design: Factorial
 % Slope: _____ Soil Drainage: _ _____

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

Maintenance

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

Comment:

Field Prep./Maintenance:

Soil Description

Description Name: _____
 % Sand: 90 % OM: 1.1 Texture: Sand
 % Silt: 8 pH: 6.3 Soil Name: Tifton sandy loam
 % Clay: 2 CEC: _____ Fert. Level: _____
 Analyzed By: _____

Additional Measured Elements

Element	Quantity	Unit

Moisture Conditions

Overall Moisture Conditions: Drip irrigation
 Closest Weather Station: _____ Distance: _____ Unit: _____

	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

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Application Description

	A	B	C	D
Application Date:	Aug-04-07	Aug-11-07	Aug-15-07	Aug-17-07
Time of Day:	7:30 am	7:30 am	8:00 am	7:00 am
Application Method:	broadcast	broadcast	broadcast	broadcast
Application Timing:	14 d	14 d	1 d	1 d
Application Placement:	overtop	overtop	overtop	overtop
Applied By:				
Air Temperature, Unit:	74 f	86 F	80 F	80 F
% Relative Humidity:	70	71	67	72
Wind Velocity, Unit:	0	0	2 mph	0
Wind Direction:				
Dew Presence (Y/N):	n	n	y	y
Water Hardness:				
Soil Temperature, Unit:	78 F	88 F	88 F	90 F
Soil Moisture:	moist	moist	moist	moist
% Cloud Cover:	0	0	0	0
Next Rain Occurred On:				

Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale:	CUMSA BVVT	CUMSA BVVT	CUMSA BVVT	CUMSA BVVT
Stage Scale Used:	BBCH	BBCH	BBCH	BBCH
Stage Majority, Percent:				
Stage Minimum, Percent:				
Stage Maximum, Percent:				
Diameter, Unit:				
Height, Unit:				
Height Minimum, Maximum:				
Crop 2 Code, BBCH Scale:	CUMSA BVVT	CUMSA BVVT	CUMSA BVVT	CUMSA BVVT
Stage Scale Used:	BBCH	BBCH	BBCH	BBCH
Stage Majority, Percent:				
Stage Minimum, Percent:				
Stage Maximum, Percent:				
Diameter, Unit:				
Height, Unit:				
Height Minimum, Maximum:				
Crop 3 Code, BBCH Scale:	CUUPE BVVT	CUUPE BVVT	CUUPE BVVT	CUUPE BVVT
Stage Scale Used:	BBCH	BBCH	BBCH	BBCH
Stage Majority, Percent:				
Stage Minimum, Percent:				
Stage Maximum, Percent:				
Diameter, Unit:				
Height, Unit:				
Height Minimum, Maximum:				

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Crop 4 Code, BBCH Scale:	CUUPE BVVT	CUUPE BVVT	CUUPE BVVT	CUUPE BVVT
Stage Scale Used:	BBCH	BBCH	BBCH	BBCH
Stage Majority, Percent:				
Stage Minimum, Percent:				
Stage Maximum, Percent:				
Diameter, Unit:				
Height, Unit:				
Height Minimum, Maximum:				

Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Disc., Scale:				
Stage Majority, Percent:				
Stage Minimum, Percent:				
Stage Maximum, Percent:				
Diameter, Unit:				
Height, Unit:				
Height Minimum, Maximum:				
Density, Unit:				
Coverage, Unit:				

Application Equipment

	A	B	C
Appl. Equipment:	backpack	backpack	backpack
Operating Pressure, Unit:	24 PSI	24 PSI	24 PSI
Nozzle Type:	flat fan	flat fan	flat fan
Nozzle Size:	11002	11002	11002
Nozzle Spacing, Unit:	18 inch	18 inch	18 inch
Nozzles/Row:	4	4	4
Nozzle Calibration, Unit:			
Band Width, Unit:			
Boom ID:			
Boom Length, Unit:	4.5 ft	4.5 ft	4.5 ft
Boom Height, Unit:	15 inch	15 inch	15 inch
Ground Speed, Unit:	3 mph	3 mph	3 mph
Incorporation Equip.:			
Hours to Incorp.:			
Incorp. Depth, Unit:			
Carrier:	water	water	water
Spray Volume, Unit:	14.8	14.8	14.8
Mix Size, Unit:			
Spray pH:			
Propellant:	co2	co2	co2
Tank Mix (Y/N):	y	y	y

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	D
Appl. Equipment:	backpack
Operating Pressure, Unit:	24 PSI
Nozzle Type:	flat fan
Nozzle Size:	11002
Nozzle Spacing, Unit:	18 inch
Nozzles/Row:	4
Nozzle Calibration, Unit:	
Band Width, Unit:	
Boom ID:	
Boom Length, Unit:	4.5 ft
Boom Height, Unit:	15 inch
Ground Speed, Unit:	3 mph
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	water
Spray Volume, Unit:	14.8
Mix Size, Unit:	
Spray pH:	
Propellant:	co2
Tank Mix (Y/N):	y

Equipment Comment:

Trt No Treatment Application Comment

Date By Notes

Date By Deviations

Reasons: