

University of Georgia

Pepper and weed response to Goal formulations and application methods.

Trial ID: Veg11-05
Location: Ponder 5161

Study Dir.: Stanley Culpepper
Investigator: Stanley Culpepper

Reps: 4 Plots: 6 by 25 feet
Spray vol: 14.8 gal/ac Mix size: 1 liters (min .77168)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code	Amt to Measure	Product	Plot No. By Rep			
										1	2	3	4
1	Non-treated									101	203	310	406
2	Goal 2 XL	2 L		0.5 lb ai/a		PREUNP A		16.89 ml/mx		102	208	302	401
3	Goal 2 XL	2 L		0.5 lb ai/a		PREUNP A		16.89 ml/mx		103	209	303	402
	Goal 2 XL	2 L		0.5 lb ai/a		ROWMID B		16.89 ml/mx					
4	Goal Tender	4 SC		0.5 lb ai/a		PREUNP A		8.445 ml/mx		104	206	304	404
5	Goal Tender	4 SC		0.5 lb ai/a		PREUNP A		8.445 ml/mx		105	207	305	405
	Goal Tender	4 SC		0.5 lb ai/a		ROWMID B		8.445 ml/mx					
6	Goal 2 XL	2 L		1 lb ai/a		PREUNP A		33.78 ml/mx		106	204	306	409
7	Goal 2 XL	2 L		1 lb ai/a		PREUNP A		33.78 ml/mx		107	205	307	410
	Goal 2 XL	2 L		1 lb ai/a		ROWMID B		33.78 ml/mx					
8	Goal Tender	4 SC		1 lb ai/a		PREUNP A		16.89 ml/mx		108	201	308	407
9	Goal Tender	4 SC		1 lb ai/a		PREUNP A		16.89 ml/mx		109	202	309	408
	Goal Tender	4 SC		1 lb ai/a		ROWMID B		16.89 ml/mx					
10	Goal Tender	4 SC		0.5 lb ai/a		PREUNP A		8.445 ml/mx		110	210	301	403
	Command	3 L		1 qt/a		PREUNP A		16.89 ml/mx					
	Dual Magnum	7.64 L		12 oz/a		PREUNP A		6.334 ml/mx					

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Lot Code
190.014	ml	Goal 2 XL 2 L	
105.563	ml	Goal Tender 4 SC	
21.113	ml	Command 3 L	
7.918	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: Evaluate pepper response to Goal applied 7 days before transplant.

Visual Crop Response:

- Injury (leaf drop, chlorosis) was minor until after receiving extremely cold conditions and 2.85 inches of rain in a single rain event. By 51 days after planting injury was severe with all treatments.
- Pepper responded similarly to both Goal formulations.
- The lower rate of Goal generally caused less injury.
- Injury was still detectable with 1 lb of Goal at 75 days after planting.
- Row middle applications had no impact on crop injury. Rainfall did occur after spraying treatments but before transplanting.
- Adding Command and Dual in with Goal did not increase crop injury.

Pepper Height Measurements:

- Heights from 20 plants per plot were measured on four separate occasions.
- Although Goal caused severe leaf drop and chlorosis, plant heights were not impacted by treatments (CV less than 7 each time).

Pepper Harvest:

University of Georgia

1. Large fruit were harvested three times while medium fruit were also picked at the final harvest. Variation for each individual harvest date was huge as always; however, data from the total harvest was more precise.
2. Treatments had no impact on the number or weight of total fruit harvested.

CONCLUSIONS:

1. This trial was clearly a worst case scenario for crop injury with rainfall, cold temperatures, and planting only 7 days after application. This research should be continued looking at a 14 to 21 day plant back. Fall work shows no injury with a 14 day plantback with Goll at 1 lb ai/A.

University of Georgia

Pepper and weed response to Goal formulations and application methods.

Trial ID: Veg11-05
Location: Ponder 5161

Study Dir.: Stanley Culpepper
Investigator: Stanley Culpepper

Weed Code	pepper injury percent	pepper injury percent	pepper injury percent	pepper injury percent	pepper injury percent	pepper injury percent	plant 1 pepper ht cm	plant 2 pepper ht cm			
Crop Code											
Rating Data Type											
Rating Unit											
Rating Date	Mar-17-05	Mar-25-05	Apr-05-05	Apr-22-05	May-06-05	May-16-05	Mar-30-05	Mar-30-05			
Trt-Eval Interval	15 DA-A	23 DA-A	34 DA-A	51 DA-A	65 DA-A	75 DA-A	28 DA-A	28 DA-A			
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7	8
1	Non-treated			0	0	0	0	0	0	12	12
2	Goal 2 XL	0.5 lb ai/a		2	1	3	16	6	5	13	13
3	Goal 2 XL	0.5 lb ai/a		4	1	8	21	9	5	13	12
4	Goal Tender	0.5 lb ai/a		0	1	10	23	13	5	11	12
5	Goal Tender	0.5 lb ai/a		0	2	11	15	10	5	12	12
6	Goal 2 XL	1 lb ai/a		1	2	23	34	17	16	11	13
7	Goal 2 XL	1 lb ai/a		0	2	23	36	20	16	12	11
8	Goal Tender	1 lb ai/a		0	0	19	31	16	14	13	13
9	Goal Tender	1 lb ai/a		2	0	20	38	17	13	12	13
10	Goal Tender	0.5 lb ai/a		2	0	5	23	11	6	13	12
	Command	1 qt/a									
	Dual Magnum	12 oz/a									
LSD (P=.05)				3.5	3.1	11.1	11.1	10.4	5.6	2.7	1.9
Standard Deviation				2.4	2.1	7.7	7.6	7.2	3.8	1.9	1.3
CV				238.59	236.96	63.46	32.43	60.07	46.27	15.17	10.4

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

University of Georgia

Weed Code	plant 3 pepper	plant 4 pepper	plant 5 pepper	plant 6 pepper	plant 7 pepper	plant 8 pepper	plant 9 pepper	plant 10 pepper			
Crop Code	pepper	pepper	pepper	pepper	pepper	pepper	pepper	pepper			
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm			
Rating Date	Mar-30-05	Mar-30-05	Mar-30-05	Mar-30-05	Mar-30-05	Mar-30-05	Mar-30-05	Mar-30-05			
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A			
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Rate Unit	9	10	11	12	13	14	15	16
1	Non-treated			12	12	12	12	12	8	11	12
2	Goal 2 XL	0.5 lb ai/a		10	12	12	12	12	11	11	12
3	Goal 2 XL	0.5 lb ai/a		13	12	13	13	13	13	13	12
4	Goal Tender	0.5 lb ai/a		12	13	13	12	12	13	12	11
5	Goal Tender	0.5 lb ai/a		11	12	13	12	13	13	12	13
6	Goal 2 XL	1 lb ai/a		12	12	14	13	9	12	12	12
7	Goal 2 XL	1 lb ai/a		13	11	11	11	12	12	13	12
8	Goal Tender	1 lb ai/a		13	13	12	13	12	13	13	13
9	Goal Tender	1 lb ai/a		12	13	14	13	12	13	12	11
10	Goal Tender	0.5 lb ai/a		12	13	12	13	13	12	12	11
	Command	1 qt/a									
	Dual Magnum	12 oz/a									
LSD (P=.05)				2.3	2.6	2.1	2.4	3.4	3.5	2.3	2.2
Standard Deviation				1.6	1.8	1.5	1.6	2.3	2.4	1.6	1.5
CV				13.68	14.45	11.76	13.35	19.46	20.65	13.11	12.49

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

University of Georgia

Weed Code	plant 11 pepper	plant 12 pepper	plant 13 pepper	plant 14 pepper	plant 15 pepper	plant 16 pepper	plant 17 pepper	plant 18 pepper		
Crop Code	pepper	pepper	pepper	pepper	pepper	pepper	pepper	pepper		
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht		
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm		
Rating Date	Mar-30-05	Mar-30-05	Mar-30-05	Mar-30-05	Mar-30-05	Mar-30-05	Mar-30-05	Mar-30-05		
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A		
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit	17	18	19	20	21	22	23	24
1	Non-treated		11	11	12	12	12	12	8	11
2	Goal 2 XL	0.5 lb ai/a	12	12	11	12	12	12	13	12
3	Goal 2 XL	0.5 lb ai/a	11	11	11	12	10	11	12	12
4	Goal Tender	0.5 lb ai/a	12	12	11	12	12	13	10	11
5	Goal Tender	0.5 lb ai/a	12	12	12	11	12	12	12	13
6	Goal 2 XL	1 lb ai/a	12	12	11	12	12	12	12	12
7	Goal 2 XL	1 lb ai/a	12	12	12	11	12	12	12	13
8	Goal Tender	1 lb ai/a	12	13	12	13	10	12	13	11
9	Goal Tender	1 lb ai/a	12	12	13	12	12	12	11	12
10	Goal Tender	0.5 lb ai/a	11	12	12	12	11	11	11	12
	Command	1 qt/a								
	Dual Magnum	12 oz/a								
LSD (P=.05)			2.3	2.4	1.8	2.2	2.2	2.0	3.4	2.7
Standard Deviation			1.6	1.7	1.2	1.5	1.5	1.4	2.4	1.9
CV			13.79	14.17	10.71	12.98	13.15	11.83	21.02	15.86

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

University of Georgia

Weed Code	plant 19 pepper	plant 20 pepper	Avg20pla pepper	plant 1 pepper	plant 2 pepper	plant 3 pepper	plant 4 pepper	plant 5 pepper			
Crop Code	pepper	pepper	pepper	pepper	pepper	pepper	pepper	pepper			
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm			
Rating Date	Mar-30-05	Mar-30-05	Mar-30-05	Apr-18-05	Apr-18-05	Apr-18-05	Apr-18-05	Apr-18-05			
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A	47 DA-A	47 DA-A	47 DA-A	47 DA-A	47 DA-A			
ARM Action Codes			T1								
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Rate Unit	25	26	27	28	29	30	31	32
1	Non-treated			11	13	11	17	16	15	16	12
2	Goal 2 XL	0.5 lb ai/a		13	12	12	16	16	14	14	15
3	Goal 2 XL	0.5 lb ai/a		12	13	12	16	16	15	16	16
4	Goal Tender	0.5 lb ai/a		12	12	12	16	16	12	15	17
5	Goal Tender	0.5 lb ai/a		13	13	12	15	15	14	16	14
6	Goal 2 XL	1 lb ai/a		13	9	12	12	16	14	15	16
7	Goal 2 XL	1 lb ai/a		12	11	12	15	15	15	13	13
8	Goal Tender	1 lb ai/a		13	12	12	15	16	16	15	16
9	Goal Tender	1 lb ai/a		12	11	12	14	15	13	12	16
10	Goal Tender	0.5 lb ai/a		12	11	12	16	14	11	16	14
	Command	1 qt/a									
	Dual Magnum	12 oz/a									
LSD (P=.05)				2.5	3.3	1.1	4.9	2.7	5.8	4.4	4.8
Standard Deviation				1.8	2.3	0.7	3.4	1.9	4.0	3.1	3.3
CV				14.42	19.64	6.26	22.38	12.04	28.56	20.83	22.66

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

Column 27: T1 = @AVG([C7].[C26])

University of Georgia

Weed Code	plant 6 pepper	plant 7 pepper	plant 8 pepper	plant 9 pepper	plant 10 pepper	plant 11 pepper	plant 12 pepper	plant 13 pepper			
Crop Code	pepper	pepper	pepper	pepper	pepper	pepper	pepper	pepper			
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm			
Rating Date	Apr-18-05	Apr-18-05	Apr-18-05	Apr-18-05	Apr-18-05	Apr-18-05	Apr-18-05	Apr-18-05			
Trt-Eval Interval	47 DA-A	47 DA-A	47 DA-A	47 DA-A	47 DA-A	47 DA-A	47 DA-A	47 DA-A			
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Rate Unit	33	34	35	36	37	38	39	40
1	Non-treated			12	13	14	15	11	14	14	15
2	Goal 2 XL	0.5 lb ai/a		15	15	14	13	14	16	16	14
3	Goal 2 XL	0.5 lb ai/a		15	16	16	12	15	15	14	11
4	Goal Tender	0.5 lb ai/a		15	16	15	15	15	14	14	13
5	Goal Tender	0.5 lb ai/a		12	17	16	16	16	16	15	16
6	Goal 2 XL	1 lb ai/a		16	12	14	15	15	13	11	13
7	Goal 2 XL	1 lb ai/a		13	14	13	14	14	13	11	14
8	Goal Tender	1 lb ai/a		16	16	16	13	16	16	16	15
9	Goal Tender	1 lb ai/a		16	15	16	15	15	15	15	15
10	Goal Tender	0.5 lb ai/a		15	16	15	14	16	15	15	16
	Command	1 qt/a									
	Dual Magnum	12 oz/a									
LSD (P=.05)				6.3	5.8	2.5	6.2	4.4	2.3	4.8	3.4
Standard Deviation				4.4	4.0	1.7	4.3	3.0	1.6	3.3	2.3
CV				30.51	27.31	11.63	30.52	20.71	10.99	23.69	16.66

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

University of Georgia

Weed Code	plant 14 pepper	plant 15 pepper	plant 16 pepper	plant 17 pepper	plant 18 pepper	plant 19 pepper	plant 20 pepper	Avg20pla pepper
Crop Code	pepper	pepper	pepper	pepper	pepper	pepper	pepper	pepper
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm
Rating Date	Apr-18-05	Apr-18-05	Apr-18-05	Apr-18-05	Apr-18-05	Apr-18-05	Apr-18-05	Apr-18-05
Trt-Eval Interval	47 DA-A	47 DA-A	47 DA-A	47 DA-A	47 DA-A	47 DA-A	47 DA-A	47 DA-A
ARM Action Codes								T2
# Subsamples, Dec.								1
Trt Treatment								
No. Name Rate Unit	41	42	43	44	45	46	47	48
1 Non-treated	15	16	15	10	14	16	15	14.2
2 Goal 2 XL 0.5 lb ai/a	16	16	15	16	16	16	15	15.1
3 Goal 2 XL 0.5 lb ai/a Goal 2 XL 0.5 lb ai/a	15	14	13	14	15	15	15	14.6
4 Goal Tender 0.5 lb ai/a	11	16	14	12	13	15	11	14.2
5 Goal Tender 0.5 lb ai/a Goal Tender 0.5 lb ai/a	16	14	13	11	16	15	15	14.8
6 Goal 2 XL 1 lb ai/a	13	14	14	14	14	12	11	13.6
7 Goal 2 XL 1 lb ai/a Goal 2 XL 1 lb ai/a	10	13	13	15	14	9	13	13.2
8 Goal Tender 1 lb ai/a	14	16	15	14	14	16	14	15.1
9 Goal Tender 1 lb ai/a Goal Tender 1 lb ai/a	15	14	15	14	14	15	15	14.4
10 Goal Tender 0.5 lb ai/a Command 1 qt/a Dual Magnum 12 oz/a	12	10	14	16	16	15	16	14.5
LSD (P=.05)	6.4	3.9	3.0	5.7	3.3	4.4	5.2	1.45
Standard Deviation	4.4	2.7	2.1	3.9	2.3	3.0	3.6	1.00
CV	32.84	18.94	14.83	28.77	15.92	21.16	25.75	6.94

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

Column 48: T2 = @AVG([C28].[C47])

University of Georgia

Weed Code	plant 1 pepper	plant 2 pepper	plant 3 pepper	plant 4 pepper	plant 5 pepper	plant 6 pepper	plant 7 pepper	plant 8 pepper			
Crop Code											
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm			
Rating Date	May-11-05	May-11-05	May-11-05	May-11-05	May-11-05	May-11-05	May-11-05	May-11-05			
Trt-Eval Interval	70 DA-A	70 DA-A	70 DA-A	70 DA-A	70 DA-A	70 DA-A	70 DA-A	70 DA-A			
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Rate Unit	49	50	51	52	53	54	55	56
1	Non-treated			26	24	26	25	20	19	25	26
2	Goal 2 XL	0.5 lb ai/a		26	25	25	22	26	25	23	25
3	Goal 2 XL	0.5 lb ai/a		18	26	26	27	26	26	25	20
4	Goal Tender	0.5 lb ai/a		24	26	19	23	27	25	27	29
5	Goal Tender	0.5 lb ai/a		24	19	25	25	25	26	27	27
6	Goal 2 XL	1 lb ai/a		17	23	23	26	25	25	18	26
7	Goal 2 XL	1 lb ai/a		25	22	25	23	24	24	23	17
8	Goal Tender	1 lb ai/a		23	23	26	26	23	24	24	24
9	Goal Tender	1 lb ai/a		24	24	24	23	24	25	23	25
10	Goal Tender	0.5 lb ai/a		26	23	19	26	24	25	25	25
	Command	1 qt/a									
	Dual Magnum	12 oz/a									
LSD (P=.05)				9.1	6.8	9.3	5.1	6.6	7.4	6.5	9.4
Standard Deviation				6.3	4.7	6.4	3.5	4.6	5.1	4.5	6.5
CV				26.77	20.1	26.84	14.24	18.85	20.93	18.88	26.91

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

University of Georgia

Weed Code	plant 9 pepper	plant 10 pepper	plant 11 pepper	plant 12 pepper	plant 13 pepper	plant 14 pepper	plant 15 pepper	plant 16 pepper			
Crop Code	pepper	pepper	pepper	pepper	pepper	pepper	pepper	pepper			
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm			
Rating Date	May-11-05	May-11-05	May-11-05	May-11-05	May-11-05	May-11-05	May-11-05	May-11-05			
Trt-Eval Interval	70 DA-A	70 DA-A	70 DA-A	70 DA-A	70 DA-A	70 DA-A	70 DA-A	70 DA-A			
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Rate Unit	57	58	59	60	61	62	63	64
1	Non-treated			27	19	23	24	23	22	23	17
2	Goal 2 XL	0.5 lb ai/a		25	25	26	25	24	23	24	23
3	Goal 2 XL	0.5 lb ai/a		26	26	26	24	16	25	24	22
4	Goal Tender	0.5 lb ai/a		25	22	24	22	24	20	25	25
5	Goal Tender	0.5 lb ai/a		27	27	23	24	25	23	17	24
6	Goal 2 XL	1 lb ai/a		24	23	23	19	20	22	21	21
7	Goal 2 XL	1 lb ai/a		22	23	22	17	21	16	21	22
8	Goal Tender	1 lb ai/a		18	26	23	23	17	23	23	23
9	Goal Tender	1 lb ai/a		23	23	23	22	22	22	22	23
10	Goal Tender	0.5 lb ai/a		26	25	25	25	25	19	21	25
	Command	1 qt/a									
	Dual Magnum	12 oz/a									
LSD (P=.05)				6.6	9.9	3.2	8.5	8.0	10.3	6.7	7.2
Standard Deviation				4.6	6.8	2.2	5.9	5.5	7.1	4.6	5.0
CV				19.04	28.65	9.29	26.1	25.36	33.24	21.07	22.17

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

University of Georgia

Weed Code	plant 17 pepper	plant 18 pepper	plant 19 pepper	plant 20 pepper	Avg20pla pepper	plant 1 pepper	plant 2 pepper	plant 3 pepper
Crop Code								
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm
Rating Date	May-11-05	May-11-05	May-11-05	May-11-05	May-11-05	May-24-05	May-24-05	May-24-05
Trt-Eval Interval	70 DA-A	70 DA-A	70 DA-A	70 DA-A	70 DA-A	83 DA-A	83 DA-A	83 DA-A
ARM Action Codes					T3			
# Subsamples, Dec.					1			
Trt Treatment								
No. Name								
Rate								
Rate Unit								
	65	66	67	68	69	70	71	72
1 Non-treated	25	27	24	24	23.3	40	37	38
2 Goal 2 XL 0.5 lb ai/a	24	25	25	26	24.4	37	34	34
3 Goal 2 XL 0.5 lb ai/a Goal 2 XL 0.5 lb ai/a	23	23	23	24	23.7	36	38	35
4 Goal Tender 0.5 lb ai/a	22	20	25	19	23.6	37	36	35
5 Goal Tender 0.5 lb ai/a Goal Tender 0.5 lb ai/a	23	25	24	24	24.0	36	37	37
6 Goal 2 XL 1 lb ai/a	18	22	22	18	21.8	32	33	34
7 Goal 2 XL 1 lb ai/a Goal 2 XL 1 lb ai/a	21	18	18	18	21.0	34	34	35
8 Goal Tender 1 lb ai/a	22	21	24	24	22.8	35	35	37
9 Goal Tender 1 lb ai/a Goal Tender 1 lb ai/a	22	20	23	23	22.9	36	38	36
10 Goal Tender 0.5 lb ai/a Command 1 qt/a Dual Magnum 12 oz/a	25	27	24	25	24.1	37	32	35
LSD (P=.05)	6.1	7.7	6.1	10.3	2.41	6.2	4.7	6.2
Standard Deviation	4.2	5.3	4.2	7.1	1.66	4.3	3.2	4.2
CV	18.53	23.49	18.33	31.92	7.19	11.89	9.18	12.01

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

Column 69: T3 = @AVG([C49].[C68])

University of Georgia

Weed Code	plant 4 pepper	plant 5 pepper	plant 6 pepper	plant 7 pepper	plant 8 pepper	plant 9 pepper	plant 10 pepper	plant 11 pepper			
Crop Code	pepper	pepper	pepper	pepper	pepper	pepper	pepper	pepper			
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm			
Rating Date	May-24-05	May-24-05	May-24-05	May-24-05	May-24-05	May-24-05	May-24-05	May-24-05			
Trt-Eval Interval	83 DA-A	83 DA-A	83 DA-A	83 DA-A	83 DA-A	83 DA-A	83 DA-A	83 DA-A			
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Rate Unit	73	74	75	76	77	78	79	80
1	Non-treated			36	37	37	37	38	39	42	36
2	Goal 2 XL	0.5 lb ai/a		35	36	37	34	35	36	37	36
3	Goal 2 XL	0.5 lb ai/a		37	37	38	38	38	37	37	39
4	Goal Tender	0.5 lb ai/a		36	39	38	39	38	39	37	31
5	Goal Tender	0.5 lb ai/a		37	37	37	39	39	39	37	36
6	Goal 2 XL	1 lb ai/a		38	38	38	35	36	37	35	33
7	Goal 2 XL	1 lb ai/a		32	35	34	35	34	34	34	31
8	Goal Tender	1 lb ai/a		36	34	37	36	36	36	37	35
9	Goal Tender	1 lb ai/a		35	35	36	38	35	34	34	35
10	Goal Tender	0.5 lb ai/a		37	37	34	33	37	38	37	34
	Command	1 qt/a									
	Dual Magnum	12 oz/a									
LSD (P=.05)				7.7	5.6	5.3	4.3	4.6	5.6	5.7	4.8
Standard Deviation				5.3	3.8	3.7	3.0	3.2	3.9	4.0	3.3
CV				14.73	10.54	10.03	8.21	8.73	10.51	10.85	9.54

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

University of Georgia

Weed Code	plant 12	plant 13	plant 14	plant 15	plant 16	plant 17	plant 18	plant 19			
Crop Code	pepper	pepper	pepper	pepper	pepper	pepper	pepper	pepper			
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm			
Rating Date	May-24-05	May-24-05	May-24-05	May-24-05	May-24-05	May-24-05	May-24-05	May-24-05			
Trt-Eval Interval	83 DA-A	83 DA-A	83 DA-A	83 DA-A	83 DA-A	83 DA-A	83 DA-A	83 DA-A			
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Rate Unit	81	82	83	84	85	86	87	88
1	Non-treated			39	36	34	35	35	38	36	26
2	Goal 2 XL	0.5 lb ai/a		35	36	37	38	34	36	37	37
3	Goal 2 XL	0.5 lb ai/a		38	36	38	37	34	35	36	38
4	Goal Tender	0.5 lb ai/a		35	34	39	36	37	33	32	39
5	Goal Tender	0.5 lb ai/a		36	37	36	35	36	36	35	37
6	Goal 2 XL	1 lb ai/a		34	31	33	34	34	34	35	35
7	Goal 2 XL	1 lb ai/a		30	30	31	33	33	32	31	32
8	Goal Tender	1 lb ai/a		35	35	33	33	35	33	32	34
9	Goal Tender	1 lb ai/a		35	33	36	35	35	34	32	32
10	Goal Tender	0.5 lb ai/a		36	37	36	35	35	39	39	40
	Command	1 qt/a									
	Dual Magnum	12 oz/a									
LSD (P=.05)				4.6	4.4	6.0	6.0	5.1	6.7	7.2	10.2
Standard Deviation				3.2	3.0	4.1	4.2	3.5	4.6	5.0	7.0
CV				9.05	8.78	11.76	11.85	10.03	13.33	14.4	20.09

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

University of Georgia

Weed Code	plant 20	Avg20pla	Harv 1	Harv 1	Harv 2	Harv 2	Harv 3	Harv 3	
Crop Code	pepper	pepper	pepper	pepper	pepper	pepper	pepper	pepper	
Rating Data Type	ht	ht	lg fruit	lg fruit	lg fruit	lg fruit	lg fruit	lg fruit	
Rating Unit	cm	cm	#	wt/lb	#	wt/lb	#	wt/lb	
Rating Date	May-24-05	May-24-05	Jun-16-05	Jun-16-05	Jun-23-05	Jun-23-05	Jun-29-05	Jun-29-05	
Trt-Eval Interval	83 DA-A	83 DA-A	106 DA-A	106 DA-A	113 DA-A	113 DA-A	119 DA-A	119 DA-A	
ARM Action Codes		T4							
# Subsamples, Dec.		1							
Trt Treatment	Rate								
No. Name	Rate Unit	89	90	91	92	93	94	95	96
1 Non-treated		35	36.4	12	4	17	6	35	14
2 Goal 2 XL	0.5 lb ai/a	38	35.8	15	5	26	8	46	15
3 Goal 2 XL	0.5 lb ai/a	36	36.8	22	7	33	11	49	16
4 Goal Tender	0.5 lb ai/a	36	36.2	17	7	26	10	44	15
5 Goal Tender	0.5 lb ai/a	37	36.6	16	5	33	11	54	19
6 Goal 2 XL	1 lb ai/a	34	34.4	17	7	22	8	39	13
7 Goal 2 XL	1 lb ai/a	26	32.4	15	5	25	8	41	14
8 Goal Tender	1 lb ai/a	35	34.8	12	4	17	7	28	9
9 Goal Tender	1 lb ai/a	34	34.8	20	7	38	13	39	13
10 Goal Tender	0.5 lb ai/a	37	36.2	23	7	25	8	40	14
	Command								
	1 qt/a								
	Dual Magnum								
	12 oz/a								
LSD (P=.05)		9.1	2.65	11.3	4.7	11.5	4.6	25.7	8.7
Standard Deviation		6.3	1.83	7.8	3.2	7.9	3.2	17.7	6.0
CV		18.13	5.16	46.4	54.72	30.48	34.19	42.85	42.29

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

Column 90: T4 = @AVG([C70].[C89])

University of Georgia

Weed Code	Harv 3 pepper med fruit	Harv 3 pepper med fruit	Har 1-3 pepper lg fruit	Har 1-3 pepper lg fruit	ALL pepper fruit	ALL pepper fruit
Rating Data Type						
Rating Unit	#	wt/lb	#	wt/lb	#	wt/lb
Rating Date	Jun-29-05	Jun-29-05	Aug-31-05	Aug-31-05	Aug-31-05	Aug-31-05
Trt-Eval Interval	119 DA-A	119 DA-A	182 DA-A	182 DA-A	182 DA-A	182 DA-A
ARM Action Codes			T5	T6	T7	T8
# Subsamples, Dec.				1	1	1
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate
		Unit				
97			98			102
1	Non-treated		29	64	23.3	52.7
2	Goal 2 XL	0.5 lb ai/a	22	86	28.7	50.9
3	Goal 2 XL	0.5 lb ai/a	20	103	34.6	55.1
4	Goal Tender	0.5 lb ai/a	19	87	32.2	50.9
5	Goal Tender	0.5 lb ai/a	19	103	35.0	54.0
6	Goal 2 XL	1 lb ai/a	21	78	29.1	49.6
7	Goal 2 XL	1 lb ai/a	21	81	27.1	47.9
8	Goal Tender	1 lb ai/a	20	56	20.4	40.5
9	Goal Tender	1 lb ai/a	21	97	33.5	54.8
10	Goal Tender	0.5 lb ai/a	22	87	29.8	52.2
	Command	1 qt/a				
	Dual Magnum	12 oz/a				
LSD (P=.05)	46.1	8.9	40.9	15.48	37.39	12.21
Standard Deviation	31.8	6.1	28.2	10.67	25.77	8.41
CV	32.56	28.46	33.5	36.31	14.18	16.54

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

Column 99: T5 = [C91]+[C93]+[C95]

Column 100: T6 = [C92]+[C94]+[C96]

Column 101: T7 = [C91]+[C93]+[C95]+[C97]

Column 102: T8 = [C92]+[C94]+[C96]+[C98]

University of Georgia

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

SOIL DESCRIPTION

% Sand: 94 % OM: 1.1 Texture: sand
 % Silt: 2 pH: 6.6 Soil Name: Tifton sandy loam
 % Clay: 4 CEC: _____ Fert. Level: _____

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

No.	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: drip

Closest Weather Station: _____ Distance: _____ Unit: __

APPLICATION DESCRIPTION

	A	B
Application Date:	Mar-02-05	Mar-03-05
Time of Day:	2 pm	1 pm
Application Method:	band	band
Application Timing:	PRE	row middl
Applic. Placement:	un plasti	row middl
Air Temp., Unit:	59 F	57 F
% Relative Humidity:	28	30
Wind Velocity, Unit:	2 mph	1 mph
Dew Presence (Y/N):	n	n
Water Hardness:		
Soil Temp., Unit:	57 F	54 F
Soil Moisture:	wet	54
% Cloud Cover:	100	100

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	CPSAN PRE	CPSAN rowmiddl
Stage Scale:	not plant	not plant
Height, Unit:	0 in	0 in

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	.	
Stage Scale:	.	
Density, Unit:	.	

University of Georgia

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	superbedd	backpack
Operating Pressure:	28	21
Nozzle Type:	flat fan	flat fan
Nozzle Size:	11002	11002
Nozzle Spacing, Unit:	12 inch	12 inch
Nozzles/Row:	4	3
Band Width, Unit:		
Boom Length, Unit:	5 feet	24 inch
Boom Height, Unit:	12 inch	12 inch
Ground Speed, Unit:	3 mph	3 mph
Incorporation Equip.:		
Hours to Incorp.:		
Incorp. Depth, Unit:		
Carrier:	water	water
Spray Volume, Unit:	23 GPA	14.8 GPA
Spray pH:		
Propellant:	CO2	CO2
Tank Mix (Y/N):	Y	Y

Trt No	Treatment Application Comment