

University of Georgia

Salvage control of GR Palmer amaranth in Flex cotton.

Trial ID: C31-06

Protocol ID:

Location: Macon Co. (Paved Rd)

Study Director: Stanley Culpepper

Investigator: Stanley Culpepper

Reps: 4

Plots: 6 by 22 feet

Spray vol: 14.8 gal/ac

Mix size: 1 liters (min .67908)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Growth Unit	Stage	Appl Code	Amt Product to Measure	Plot No. By Rep			
										1	2	3	4
1	Weathermax No urea herbicide No Staple Induce No MSMA Valor SX MSMA 6.6 Induce	4.5	lbae/gal	L	22	FL OZ/A	POST-1	A	11.61 ml/mx	102	218	304	416
				L	0.25	% V/V	POST-2	B	2.5 ml/mx				
		51	%	WG	1.99	OZ/A	Layby	C	1.007 g/mx				
		6.6	lba/gal	L	2.51	PT/A	Layby	C	21.2 ml/mx				
				L	0.25	% V/V	Layby	C	2.5 ml/mx				
2	Weathermax No urea herbicide No Staple Induce MSMA 6.6 Valor SX MSMA 6.6 Induce	4.5	lbae/gal	L	22	FL OZ/A	POST-1	A	11.61 ml/mx	106	204	316	404
				L	0.25	% V/V	POST-2	B	2.5 ml/mx				
		6.6	lba/gal	L	1.52	PT/A	POST-2	B	12.84 ml/mx				
		51	%	WG	1.99	OZ/A	Layby	C	1.007 g/mx				
		6.6	lba/gal	L	2.51	PT/A	Layby	C	21.2 ml/mx				
				L	0.25	% V/V	Layby	C	2.5 ml/mx				
3	Weathermax No urea herbicide Staple Induce No MSMA Valor SX MSMA 6.6 Induce	4.5	lbae/gal	L	22	FL OZ/A	POST-1	A	11.61 ml/mx	108	213	314	415
		3.2	lba/gal	L	2.5	FL OZ/A	POST-2	B	1.32 ml/mx				
				L	0.25	% V/V	POST-2	B	2.5 ml/mx				
		51	%	WG	1.99	OZ/A	Layby	C	1.007 g/mx				
		6.6	lba/gal	L	2.51	PT/A	Layby	C	21.2 ml/mx				
				L	0.25	% V/V	Layby	C	2.5 ml/mx				
4	Weathermax No urea herbicide Staple Induce MSMA 6.6 Valor SX MSMA 6.6 Induce	4.5	lbae/gal	L	22	FL OZ/A	POST-1	A	11.61 ml/mx	110	214	310	418
		3.2	lba/gal	L	2.5	FL OZ/A	POST-2	B	1.32 ml/mx				
				L	0.25	% V/V	POST-2	B	2.5 ml/mx				
		6.6	lba/gal	L	1.52	PT/A	POST-2	B	12.84 ml/mx				
		51	%	WG	1.99	OZ/A	Layby	C	1.007 g/mx				
		6.6	lba/gal	L	2.51	PT/A	Layby	C	21.2 ml/mx				
				L	0.25	% V/V	Layby	C	2.5 ml/mx				
5	Weathermax Cotoran No Staple Induce No MSMA Valor SX MSMA 6.6 Induce	4.5	lbae/gal	L	11	FL OZ/A	POST-1	A	5.807 ml/mx	117	212	309	411
		4	lba/gal	L	1.96	PT/A	POST-2	B	16.55 ml/mx				
				L	0.25	% V/V	POST-2	B	2.5 ml/mx				
		51	%	WG	1.99	OZ/A	Layby	C	1.007 g/mx				
		6.6	lba/gal	L	2.51	PT/A	Layby	C	21.2 ml/mx				
				L	0.25	% V/V	Layby	C	2.5 ml/mx				
6	Weathermax Cotoran No Staple Induce MSMA 6.6 Valor SX MSMA 6.6 Induce	4.5	lbae/gal	L	11	FL OZ/A	POST-1	A	5.807 ml/mx	118	215	312	402
		4	lba/gal	L	1.96	PT/A	POST-2	B	16.55 ml/mx				
				L	0.25	% V/V	POST-2	B	2.5 ml/mx				
		6.6	lba/gal	L	1.52	PT/A	POST-2	B	12.84 ml/mx				
		51	%	WG	1.99	OZ/A	Layby	C	1.007 g/mx				
		6.6	lba/gal	L	2.51	PT/A	Layby	C	21.2 ml/mx				
				L	0.25	% V/V	Layby	C	2.5 ml/mx				

University of Georgia

Reps: 4

Plots: 6 by 22 feet

Spray vol: 14.8 gal/ac

Mix size: 1 liters (min .67908)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Rate Unit	Growth Stage	Appl Code	Amt to Measure	Product	Plot No. By Rep			
											1	2	3	4
7	Weathermax	4.5	lbae/gal	L	11	FL OZ/A	POST-1	A	5.807	ml/mx	115	210	303	406
	Cotoran	4	lba/gal	L	1.96	PT/A	POST-2	B	16.55	ml/mx				
	Staple	3.2	lba/gal	L	2.5	FL OZ/A	POST-2	B	1.32	ml/mx				
	Induce			L	0.25	% V/V	POST-2	B	2.5	ml/mx				
	No MSMA													
	Valor SX	51	%	WG	1.99	OZ/A	Layby	C	1.007	g/mx				
	MSMA 6.6	6.6	lba/gal	L	2.51	PT/A	Layby	C	21.2	ml/mx				
	Induce			L	0.25	% V/V	Layby	C	2.5	ml/mx				
8	Weathermax	4.5	lbae/gal	L	11	FL OZ/A	POST-1	A	5.807	ml/mx	105	202	311	413
	Cotoran	4	lba/gal	L	1.96	PT/A	POST-2	B	16.55	ml/mx				
	Staple	3.2	lba/gal	L	2.5	FL OZ/A	POST-2	B	1.32	ml/mx				
	Induce			L	0.25	% V/V	POST-2	B	2.5	ml/mx				
	MSMA 6.6	6.6	lba/gal	L	1.52	PT/A	POST-2	B	12.84	ml/mx				
	Valor SX	51	%	WG	1.99	OZ/A	Layby	C	1.007	g/mx				
	MSMA 6.6	6.6	lba/gal	L	2.51	PT/A	Layby	C	21.2	ml/mx				
	Induce			L	0.25	% V/V	Layby	C	2.5	ml/mx				
9	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-1	A	11.61	ml/mx	101	216	313	414
	Cotoran	4	lba/gal	L	3.93	PT/A	POST-2	B	33.19	ml/mx				
	No Staple													
	Induce			L	0.25	% V/V	POST-2	B	2.5	ml/mx				
	No MSMA													
	Valor SX	51	%	WG	1.99	OZ/A	Layby	C	1.007	g/mx				
	MSMA 6.6	6.6	lba/gal	L	2.51	PT/A	Layby	C	21.2	ml/mx				
	Induce			L	0.25	% V/V	Layby	C	2.5	ml/mx				
10	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-1	A	11.61	ml/mx	112	207	301	408
	Cotoran	4	lba/gal	L	3.93	PT/A	POST-2	B	33.19	ml/mx				
	No Staple													
	Induce			L	0.25	% V/V	POST-2	B	2.5	ml/mx				
	MSMA 6.6	6.6	lba/gal	L	1.52	PT/A	POST-2	B	12.84	ml/mx				
	Valor SX	51	%	WG	1.99	OZ/A	Layby	C	1.007	g/mx				
	MSMA 6.6	6.6	lba/gal	L	2.51	PT/A	Layby	C	21.2	ml/mx				
	Induce			L	0.25	% V/V	Layby	C	2.5	ml/mx				
11	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-1	A	11.61	ml/mx	116	211	308	412
	Cotoran	4	lba/gal	L	3.93	PT/A	POST-2	B	33.19	ml/mx				
	Staple	3.2	lba/gal	L	2.5	FL OZ/A	POST-2	B	1.32	ml/mx				
	Induce			L	0.25	% V/V	POST-2	B	2.5	ml/mx				
	No MSMA													
	Valor SX	51	%	WG	1.99	OZ/A	Layby	C	1.007	g/mx				
	MSMA 6.6	6.6	lba/gal	L	2.51	PT/A	Layby	C	21.2	ml/mx				
	Induce			L	0.25	% V/V	Layby	C	2.5	ml/mx				
12	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-1	A	11.61	ml/mx	109	217	315	401
	Cotoran	4	lba/gal	L	3.93	PT/A	POST-2	B	33.19	ml/mx				
	Staple	3.2	lba/gal	L	2.5	FL OZ/A	POST-2	B	1.32	ml/mx				
	Induce			L	0.25	% V/V	POST-2	B	2.5	ml/mx				
	MSMA 6.6	6.6	lba/gal	L	1.52	PT/A	POST-2	B	12.84	ml/mx				
	Valor SX	51	%	WG	1.99	OZ/A	Layby	C	1.007	g/mx				
	MSMA 6.6	6.6	lba/gal	L	2.51	PT/A	Layby	C	21.2	ml/mx				
	Induce			L	0.25	% V/V	Layby	C	2.5	ml/mx				
13	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-1	A	11.61	ml/mx	113	208	305	417
	Direx	4	lba/gal	L	1.96	PT/A	POST-2	B	16.55	ml/mx				
	No Staple													
	Induce			L	0.25	% V/V	POST-2	B	2.5	ml/mx				
	No MSMA													
	Valor SX	51	%	WG	1.99	OZ/A	Layby	C	1.007	g/mx				
	MSMA 6.6	6.6	lba/gal	L	2.51	PT/A	Layby	C	21.2	ml/mx				
	Induce			L	0.25	% V/V	Layby	C	2.5	ml/mx				

University of Georgia

Reps: 4 Plots: 6 by 22 feet
 Spray vol: 14.8 gal/ac Mix size: 1 liters (min .67908)

Tt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Growth Unit	Appl Stage	Code	Amt to Measure	Product	Plot No. By Rep			
											1	2	3	4
14	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-1	A		11.61 ml/mx	104	201	302	407
	Direx	4	lba/gal	L	1.96	PT/A	POST-2	B		16.55 ml/mx				
	No Staple													
	Induce			L	0.25	% V/V	POST-2	B		2.5 ml/mx				
	MSMA 6.6	6.6	lba/gal	L	1.52	PT/A	POST-2	B		12.84 ml/mx				
	Valor SX	51	%	WG	1.99	OZ/A	Layby	C		1.007 g/mx				
	MSMA 6.6	6.6	lba/gal	L	2.51	PT/A	Layby	C		21.2 ml/mx				
	Induce			L	0.25	% V/V	Layby	C		2.5 ml/mx				
15	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-1	A		11.61 ml/mx	103	209	317	405
	Direx	4	lba/gal	L	1.96	PT/A	POST-2	B		16.55 ml/mx				
	Staple	3.2	lba/gal	L	2.5	FL OZ/A	POST-2	B		1.32 ml/mx				
	Induce			L	0.25	% V/V	POST-2	B		2.5 ml/mx				
	No MSMA													
	Valor SX	51	%	WG	1.99	OZ/A	Layby	C		1.007 g/mx				
	MSMA 6.6	6.6	lba/gal	L	2.51	PT/A	Layby	C		21.2 ml/mx				
	Induce			L	0.25	% V/V	Layby	C		2.5 ml/mx				
16	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-1	A		11.61 ml/mx	111	205	307	403
	Direx	4	lba/gal	L	1.96	PT/A	POST-2	B		16.55 ml/mx				
	Staple	3.2	lba/gal	L	2.5	FL OZ/A	POST-2	B		1.32 ml/mx				
	Induce			L	0.25	% V/V	POST-2	B		2.5 ml/mx				
	MSMA 6.6	6.6	lba/gal	L	1.52	PT/A	POST-2	B		12.84 ml/mx				
	Valor SX	51	%	WG	1.99	OZ/A	Layby	C		1.007 g/mx				
	MSMA 6.6	6.6	lba/gal	L	2.51	PT/A	Layby	C		21.2 ml/mx				
	Induce			L	0.25	% V/V	Layby	C		2.5 ml/mx				
17	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-1	A		11.61 ml/mx	107	203	306	410
18	Untreated check										114	206	318	409

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
217.747	ml	Weathermax	4.5	L	
99.989	ml	Induce		L	
20.140	g	Valor SX	51	WG	
552.307	ml	MSMA 6.6	6.6	L	
13.197	ml	Staple	3.2	L	
248.707	ml	Cotoran	4	L	
82.762	ml	Direx	4	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.
- * 'Per volume' calculations use spray volume= 14.8 gal/ac, mix size= 1 liters.

Trial Comments

OBJECTIVE: Determine if any salvage topical herbicide applications will control glyphosate-resistant Palmer amaranth.

COTTON RESPONSE:

1. At 7 d after salvage applications:
 - A. Injury from Cotoran at 1.96 pt treatments ranged from 11 to 18%.
 - B. Injury from Cotoran at 3.93 pt treatments ranged from 23 to 30%.
 - C. Injury from Direx mixtures exceeded 64%.

University of Georgia

2. Injury from the Cotoran or diuron mixtures lasted through much of the season. Injury from MSMA was likely masked by the typical substituted urea injury.
3. Injury from MSMA alone and Staple plus MSMA were not present at 7 DAT but by 19 DAT stem reddening and stunting were noted.
4. Layby treatments had little chance to cover the weed or crop in most plots.

WEED CONTROL:

- A. MSMA alone system provided 51% control at 19 DAT and 26% by 55 DAT.
- B. Staple alone system provided 57% control at 19 DAT and 44% by 55 DAT (there may be ALS resistance issues in this field).
- C. Staple plus MSMA system was not more effective than the Staple alone system.
- D. The Cotoran 3.93 pt alone system provided only 25% at 19 and 55 DAT. Mixing MSMA with Cotoran improved control 36% at 19 DAT but not at 55 DAT. Adding Staple to the Cotoran + MSMA mixture had minimal benefit.
- E. The Direx alone system provided 89% control at 19 DAT with 62% control noted at 55 DAT. The addition of MSMA did not improve control. Staple mixed with diuron did not improve control at 19 DAT but did improve control by 17% at 55 DAT.

University of Georgia

Salvage control of GR Palmer amaranth in Flex cotton.

Trial ID: C31-06

Protocol ID:

Location: Macon Co. (Paved Rd)

Study Director: Stanley Culpepper

Investigator: Stanley Culpepper

Pest Code				AMAPA	AMAPA	AMAPA	AMAPA	AMAPA			
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI			
BBCH Scale	BCOT	BCOT	BCOT	BCOT	BCOT	BCOT	BCOT	BCOT			
Rating Date	Jun-08-06	Jun-20-06	Jun-30-06	Jun-08-06	Jun-20-06	Jun-29-06	Jun-29-06	Jul-26-06			
Rating Data Type	injury	injury	injury	control	control	control	control	control			
Rating Unit	%	%	%	%	%	%	%	%			
Assessed By	AD	SC	SC	AD	SC	SC	SC	SC			
Days After First/Last Applic.	7	19	9	7	19	8	8	35			
Trt-Eval Interval	7 DA-B	19 DA-B	29 DA-B	7 DA-B	19 DA-B	28 DA-B	28 DA-B	55 DA-B			
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7	8
1	Weathermax No urea herbicide No Staple Induce No MSMA Valor SX MSMA 6.6 Induce	22 0.25 1.99 2.51 0.25	FL OZ/A % V/V OZ/A PT/A % V/V	0 e	0 h	0 g	0 g	0 e	30 c	0 g	20 h
2	Weathermax No urea herbicide No Staple Induce MSMA 6.6 Valor SX MSMA 6.6 Induce	22 0.25 1.52 1.99 2.51 0.25	FL OZ/A % V/V PT/A OZ/A PT/A % V/V	1 e	18 efg	19 f	56 def	51 bc	54 b	51 cd	26 fgh
3	Weathermax No urea herbicide Staple Induce No MSMA Valor SX MSMA 6.6 Induce	22 2.5 0.25 1.99 2.51 0.25	FL OZ/A FL OZ/A % V/V OZ/A PT/A % V/V	0 e	3 h	8 g	57 def	57 bc	54 b	63 bc	44 de
4	Weathermax No urea herbicide Staple Induce MSMA 6.6 Valor SX MSMA 6.6 Induce	22 2.5 0.25 1.52 1.99 2.51 0.25	FL OZ/A FL OZ/A % V/V PT/A OZ/A PT/A % V/V	3 e	13 g	20 ef	60 cde	64 b	58 b	58 c	39 d-g
5	Weathermax Cotoran No Staple Induce No MSMA Valor SX MSMA 6.6 Induce	11 1.96 0.25 1.99 2.51 0.25	FL OZ/A PT/A % V/V OZ/A PT/A % V/V	14 d	18 d-g	20 f	46 ef	16 de	46 bc	23 ef	25 gh

University of Georgia

Pest Code				AMAPA	AMAPA	AMAPA	AMAPA	AMAPA	
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	
BBCH Scale	BCOT	BCOT	BCOT	BCOT	BCOT	BCOT	BCOT	BCOT	
Rating Date	Jun-08-06	Jun-20-06	Jun-30-06	Jun-08-06	Jun-20-06	Jun-29-06	Jun-29-06	Jul-26-06	
Rating Data Type	injury	injury	injury	control	control	control	control	control	
Rating Unit	%	%	%	%	%	%	%	%	
Assessed By	AD	SC	SC	AD	SC	SC	SC	SC	
Days After First/Last Applic.	7	19	9	7	19	8	8	35	
Trt-Eval Interval	7 DA-B	19 DA-B	29 DA-B	7 DA-B	19 DA-B	28 DA-B	28 DA-B	55 DA-B	
Trt Treatment	Rate								
No. Name	Rate Unit	1	2	3	4	5	6	7	8
12 Weathermax	22 FL OZ/A	24 bc	24 b-e	30 a-d	85 ab	58 bc	61 b	78 ab	50 cd
Cotoran	3.93 PT/A								
Staple	2.5 FL OZ/A								
Induce	0.25 % V/V								
MSMA 6.6	1.52 PT/A								
Valor SX	1.99 OZ/A								
MSMA 6.6	2.51 PT/A								
Induce	0.25 % V/V								
13 Weathermax	22 FL OZ/A	65 a	33 a	33 ab	93 ab	89 a	79 a	90 a	62 bc
Direx	1.96 PT/A								
No Staple									
Induce	0.25 % V/V								
No MSMA									
Valor SX	1.99 OZ/A								
MSMA 6.6	2.51 PT/A								
Induce	0.25 % V/V								
14 Weathermax	22 FL OZ/A	69 a	28 ab	31 abc	94 a	86 a	90 a	94 a	74 ab
Direx	1.96 PT/A								
No Staple									
Induce	0.25 % V/V								
MSMA 6.6	1.52 PT/A								
Valor SX	1.99 OZ/A								
MSMA 6.6	2.51 PT/A								
Induce	0.25 % V/V								
15 Weathermax	22 FL OZ/A	65 a	30 ab	29 a-d	94 a	91 a	88 a	94 a	79 a
Direx	1.96 PT/A								
Staple	2.5 FL OZ/A								
Induce	0.25 % V/V								
No MSMA									
Valor SX	1.99 OZ/A								
MSMA 6.6	2.51 PT/A								
Induce	0.25 % V/V								
16 Weathermax	22 FL OZ/A	68 a	33 a	34 a	91 ab	91 a	86 a	92 a	68 ab
Direx	1.96 PT/A								
Staple	2.5 FL OZ/A								
Induce	0.25 % V/V								
MSMA 6.6	1.52 PT/A								
Valor SX	1.99 OZ/A								
MSMA 6.6	2.51 PT/A								
Induce	0.25 % V/V								
17 Weathermax	22 FL OZ/A	0 e	0 h	0 g	3 g	1 e	0 d	0 g	0 i
18 Untreated check		0 e	0 h	0 g	0 g	0 e	0 d	0 g	0 i
LSD (P=.05)		7.3	6.1	7.4	16.8	17.3	15.4	17.2	13.4
Standard Deviation		5.1	4.3	5.2	11.8	12.2	10.9	12.2	9.5
CV		21.57	24.12	24.7	19.98	25.94	20.76	23.99	24.93
Bartlett's X2		20.719	16.362	9.183	26.071	27.095	18.546	41.154	16.1
P(Bartlett's X2)		0.079	0.292	0.759	0.037*	0.028*	0.183	0.001*	0.375

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

University of Georgia

Crop Description	
Crop 1: GOSHI <i>Gossypium hirsutum</i>	Cotton, American upland
Variety: Widestrike 485BRR	Description: Description
BBCH Scale: BCOT	Planting Date: May-01-06
Planting Method: hill drop	Rate, Unit: 2 8 inch
Depth, Unit: 0.5 in	Perennial Age, Unit: _____
Row Spacing, Unit: 36 in	Spacing Within Row, Unit: _____
Seed Bed: bedded	Soil Temperature, Unit: 74 F
Soil Moisture: perfect	Emergence Date: May-06-06
Harvest Date: _____	Harvest Equipment: _____
Harvested Width, Unit: _____	Harvested Length, Unit: _____
% Standard Moisture: _____	Moisture Meter: _____
Weighing Equipment: _____	

Pest Description	
Pest 1 Type: W Code: AMAPA <i>Amaranth, Palmer</i>	
Common Name: <i>Amaranthus palmeri</i>	
Description: _____	

Site and Design			
Plot Width, Unit: 6	FT	Site Type:	on farm
Plot Length, Unit: 22	FT	Tillage Type:	conventional
Replications: 4		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: 82	% OM: 2.0	Texture:	Loamy sand
% Silt: 14	pH: 6.3	Soil Name:	_____
% Clay: 4	CEC: _____	Fert. Level:	_____
Analyzed By: _____			

Additional Measured Elements		
Element	Quantity	Unit

Moisture Conditions		
Overall Moisture Conditions:	dryland:moist at time of POT applications then dry	
Closest Weather Station: _____	Distance: _____	Unit: _____

University of Georgia

	Date	Time	Amount	Unit	Type	Interval	Unit
1.	May-05-06		1	in			
2.	May-07-06		2.5	in			
3.	May-10-06		2	in			
4.	Jun-20-06		0.4	in			

Application Description

	A	B	C
Application Date:	May-23-06	Jun-01-06	Jun-21-06
Time of Day:	11:00 am	10:00 am	8:00am
Application Method:	broadcast	broadcast	broadcast
Application Timing:	POST 1	POST 2	layby
Application Placement:	overtop	overtop	directed
Applied By:	SC	SC	SC
Air Temperature, Unit:	86 F	85 F	77 F
% Relative Humidity:	44	48	80
Wind Velocity, Unit:	1 mph	1 mph	2 mph
Wind Direction:			
Dew Presence (Y/N):	N	N	N
Water Hardness:			
Soil Temperature, Unit:	90 F	89 F	76 F
Soil Moisture:	moist	moist	fair
% Cloud Cover:	0	35	0
Next Rain Occurred On:			

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GOSHI BCOT	GOSHI BCOT	GOSHI BCOT
Stage Scale Used:	DESC	DESC	DESC
Stage Majority, Percent:	1 leaf 95	4 leaf 95	10 leaf 90
Stage Minimum, Percent:	cot 2	3 leaf 3	9 leaf 5
Stage Maximum, Percent:	2 leaf 3	5 leaf 2	11 leaf 5
Diameter, Unit:			
Height, Unit:	2 in	4 in	12 in
Height Minimum, Maximum:	1 3	3 5	10 14

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Disc., Scale:	AMAPA W DESC	AMAPA W DESC	AMAPA W DESC
Stage Majority, Percent:	1 inch 99	5 inch 90	15inch 80
Stage Minimum, Percent:	1 inch 99	5 inch 90	14inch 5
Stage Maximum, Percent:	1.25 1	6 inch 10	16inch 15
Diameter, Unit:			
Height, Unit:	1 in	5 in	15 in
Height Minimum, Maximum:	1 1.25	5 6	14 16
Density, Unit:	50 ydsq	35 ydsq	35 ydsq
Coverage, Unit:	100 %	80+ %	50 %

University of Georgia

Application Equipment

	A	B	C
Appl. Equipment:	backpack	backpack	backpack
Operating Pressure, Unit:	24 PSI	24 PSI	18 PSI
Nozzle Type:	flat fan	flat fan	floodjet
Nozzle Size:	11002	11002	TK2
Nozzle Spacing, Unit:	18 inch	18 inch	36 inch
Nozzles/Row:	2	2	3
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	10 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 GAL/AC	14.8 GAL/AC	14.8 GAL/AC
Mix Size, Unit:			
Spray pH:			
Propellant:	CO2	CO2	CO2
Tank Mix (Y/N):	Y	Y	Y

Equipment Comment:

Trt No Treatment Application Comment

Date By Notes

Date By Deviations

Reasons: