	Trial ID: C3-07		crop o		Round	nt of g up Read		ste-resista ton.	nt Pa	lmer	amara	anth :	in
	Location: Macon C	ounty						ley Culpeppe ley Culpeppe					
Rep	s: 4 F	Plots: 12 by					Scall	rey curpeppe	51				
	ay vol: 14.8 gal/ac		e: 2 liter:										
	Treatment Name	Form Forr Conc Unit			Rate Unit			Amt Product to Measure	Plot N	ю. Ву I 2	Rep 3	4	
1	Wheat 4 WBP No herbicide								101	204	309	412	
2	Wheat 4 WBP Prowl H20 Reflex	3.8 2	L L L	1	PT/A PT/A OZ/A	PRE PRE POST	A A B	35.47 ml/mx 16.89 ml/mx 23.23 ml/mx	102	203	310	411	
	Roudup WeatherMax Staple Direx MSMA	4.5 3.2 4 6	L L L	1.7 2	OZ/A OZ/A PT/A LB A/A	POST PD	B C C	23.23 ml/mx 1.795 ml/mx 33.78 ml/mx 45.04 ml/mx					
3	Wheat 2 WBP No herbicide								103	202	311	410	
4	Wheat 2 WBP Prowl H20 Reflex Roudup WeatherMax Staple Direx MSMA	3.8 2 4.5 3.2 4 6	L L L L L	1 22 1.7 2	PT/A PT/A OZ/A OZ/A PT/A LB A/A	PRE PRE POST POST PD PD	A A B C C	35.47 ml/mx 16.89 ml/mx 23.23 ml/mx 1.795 ml/mx 33.78 ml/mx 45.04 ml/mx	104	201	312	409	
5	Rye 4 WBP No herbicide								105	208	307	405	
6	Rye 4 WBP Prowl H20 Reflex Roudup WeatherMax Staple Direx MSMA	3.8 2 4.5 3.2 4 6		1 22 1.7 2	PT/A PT/A OZ/A OZ/A PT/A LB A/A	PRE PRE POST POST PD PD	A A B C C	35.47 ml/mx 16.89 ml/mx 23.23 ml/mx 1.795 ml/mx 33.78 ml/mx 45.04 ml/mx	106	207	306	408	
7	Rye 2 WBP No herbicide								107	206	305	407	
8	Rye 2 WBP Prowl H20 Reflex Roudup WeatherMax Staple Direx MSMA	3.8 2 4.5 3.2 4 6	L L L L L	1 22 1.7 2	PT/A PT/A OZ/A OZ/A PT/A LB A/A	PRE PRE POST POST PD	A A B C C	35.47 ml/mx 16.89 ml/mx 23.23 ml/mx 1.795 ml/mx 33.78 ml/mx 45.04 ml/mx	108	205	308	406	
9	No cover 4 WBP No herbicide								109	212	303	404	

Rep	s:4 F	Plots: 1	2 by 2	5 feet									
Spra	ay vol: 14.8 gal/ac	Mi	x size:	2 liters	s (min	1.5434)							
Trt	Treatment	Form	Form	Form		Rate	Growth	Appl	Amt Product	Plot N	lo. By l	Rep	
No.	Name	Conc	Unit	Туре	Rate	Unit	Stage	Code	to Measure	1	2	3	4
10	No cover									110	211	301	403
	4 WBP												
	Prowl H20	3.8		L	2.1	PT/A	PRE	А	35.47 ml/mx				
	Reflex	2		L	1	PT/A	PRE	А	16.89 ml/mx				
	Roudup WeatherMax	4.5		L	22	OZ/A	POST	В	23.23 ml/mx				
	Staple	3.2		L	1.7	OZ/A	POST	В	1.795 ml/mx				
	Direx	4		L	2	PT/A	PD	С	33.78 ml/mx				
	MSMA	6		L	2	LB A/A	PD	С	45.04 ml/mx				
11	No cover									111	210	302	401
	2 WBP												
	No herbicide												
12	No cover									112	209	304	402
	2 WBP												
	Prowl H20	3.8		L	2.1	PT/A	PRE	А	35.47 ml/mx				
	Reflex	2		L	1	PT/A	PRE	А	16.89 ml/mx				
	Roudup WeatherMax	4.5		L	22	OZ/A	POST	В	23.23 ml/mx				
	Staple	3.2		L	1.7	OZ/A	POST	В	1.795 ml/mx				
	Direx	4		L	2	PT/A	PD	С	33.78 ml/mx				
	MSMA	6		L	2	LB A/A	PD	С	45.04 ml/mx				

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
266.019	ml	Prowl H20	3.8	L	
126.676	ml	Reflex	2	L	
174.198	ml	Roudup WeatherMax	4.5	L	
13.461	ml	Staple	3.2	L	
253.352	ml	Direx	4	L	
337.802	ml	MSMA	6	L	

\* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 2 liters (mix size basis).
\* Product amount calculations increased 25 % for overage adjustment.

### **Trial Comments**

OBJECTIVE: Determine the impact of cover crop residue on the ability to manaage glyphosate-resistant Palmer amaranth.

NOTE: No rainfall occurred within 17 d of planting; thus, herbicides were not activated until that time.

VISUAL PALMER CONTROL:

- 1. At 27 d after planting, cover crops alone provided 70 to 78% control compared to the tilled plots.
- 2. At 42 d after planting, cover crops were still providing 62 to 69% control compared to the tilled plots.
- 3. Little visual control was noted from cover crops by 52 DAT when no herbicides were used.

4. Herbicides on conventially tilled land had the greatest level of control during mid-season with 81-85% control but control was only 69-71% after layby and only 59-60% late in the season. At harvest, control was greater when using herbicides in rye with both kill dates and with wheat when

controlling the cover crop 2 wks of planting (ie more residue than killing it 4 wks ahead of planting).

#### PALMER EMERGENCE COUNTS:

1. At 27, 42, and 120 days after planting, Palmer plant stands were measured.

2. Killing the wheat 4 WBP led to 2063lb/A of dry matter in early May. This residue reduced emergence 52, 38, and 38% at 27, 42, and 120 d after planting.

-	WBP led to 4202 lb/A of dry r	matter in early May. This resid	due reduced emergence 65, 50, and 38% at 27, 42, and 120 d after
planting. 4. Killing the rye 4 W	3P led to 4585 lb/A of liter dur	ing July. This residue reduce	d emergence 65, 50, and 53% at 27, 42, and 120 d after planting.
		• •	d emergence 68, 60, and 53% at 27, 42, and 120 d after planting.
SEED COTTON YIELD	:		
	, ,	424 to 546 lbs of seed cotto	•
		st 29% when having wheat a st 52% when having wheat a	
4. With cover crops,	yields were increased at leas	st 43% when having wheat a	nd killing it 4 WBP.
5. With cover crops,	yields were increased at leas	st 49% when having wheat a	nd killing it 2 WBP.
CONCLUSIONS:			
	herbicides are not activated b ended to reduce pigweed em		rops can be used to reduce Palmer emergence.
3. Greater residues a	also caused erratic and less the	han an ideal cotton stand.	
4. It is likely that cove	er crops will be a detriment wh	nen herbicides are activated b	out a bonus when residual herbicides are not activated.
5/15/07			
Cover Crop-AMAPA 1	-4"; Conventional 1-8"		
Late Wheat 4630.97 lb.	Early Wheat 1372.14 lb.	Late Wheat 6774.94 lb.	Early Wheat 1886.69 lb.
Late Rye 8363.52 lb.	Early Rye 5764.89 lb.	Rye Late 5227.2 lb.	Early Rye 4192.65 lb.
Early Wheat 1470.15 lb.	Late Wheat 4802.49 lb.	Early Wheat 5586.57 lb.	Late Wheat 4802.49 lb.
Early Rye 2410.77 lb.	Late Rye 4878.72 lb.	Early Rye 5974.52 lb.	Late Rye 5924.16 lb.
		0014.02 lb.	002-1.10 15.
Average Late Wheat Average Early Wheat			
Average Late Rye 4			
Average Early Rye	4585.71 lb.		

Г

Impact of cover	crop on mai				tant Palm	er amaran	th in	
Trial ID: C3-07		Protocol	Ready cot	con.				
Location: Macon County	Stu	dy Direct		ev Culper	oper			
		nvestigat						
Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code	AMAPA			AMAPA	AMAPA			
Crop Code								
BBCH Scale								
Rating Date	May-15-07	May-30-07	Jun-09-07		Aug-31-07	May-15-07	May-30-07	
Rating Data Type	%	%	%	%	%	#	#	
Rating Unit	control			control	control	60 sqft		
Days After First/Last Applic.	0	15	0	31	83	0		
Trt-Eval Interval	27 DA-A	42 DA-A	52 DA-A			27 DA-A	42 DA-A	
ARM Action Codes								
Number of Decimals								
Trt Treatment Rate	4	_	~	4	F	C	7	
No. Name Rate Unit	1	2	3	4	5	6	7	
1 Wheat	74 ab	66 cd	24 b	0 e	0 d	21 b	26 b	
4 WBP No herbicide								
	0.4	0.1	00	70	00.1		-	
2 Wheat 4 WBP	81 ab	91 a	68 a	78 c	68 bc	8 b	5 e	
Prowl H20 2.1 PT/A								
Reflex 1 PT/A								
Roudup WeatherMax 22 OZ/A								
Staple 1.7 OZ/A								
Direx 2 PT/A								
MSMA 2 LB A/	A							
3 Wheat	78 ab	69 bcd	21 b	0 e	0 d	14 b	21 bc	
2 WBP						-		
No herbicide								
4 Wheat	87 ab	81 abc	83 a	88 b	81 a	10 b	12 de	
2 WBP								
Prowl H20 2.1 PT/A								
Reflex 1 PT/A								
Roudup WeatherMax 22 OZ/A								
Staple 1.7 OZ/A								
Direx 2 PT/A								
MSMA 2 LB A/								
5 Rye	70 b	58 d	18 b	0 e	0 d	16 b	22 bc	
4 WBP								
No herbicide		<u>.</u>			=			
6 Rye	85 ab	85 ab	78 a	86 b	79 ab	10 b	6 e	
4 WBP Prowl H20 2.1 PT/A								
Prowl H20 2.1 PT/A Reflex 1 PT/A								
Roudup WeatherMax 22 OZ/A								
Staple 1.7 OZ/A								
Direx 2 PT/A								
MSMA 2 LB A/	A							
7 Rye	75 ab	62 d	25 b	0 e	0 d	13 b	17 cd	
2 WBP	, e ab	<u> </u>	20 0	0		10 0	.,	
No herbicide								
P							•	•

	-						
Pest Type	W Weed						
Pest Code	AMAPA						
Crop Code							
BBCH Scale							
Rating Date	May-15-07	May-30-07	Jun-09-07	Jul-10-07	Aug-31-07	May-15-07	May-30-07
Rating Data Type	%	%	%	%	-	#	, #
Rating Unit	control	control		control		60 sqft	45 sqft
Days After First/Last Applic.	0	15	0	31	83	0	15
Trt-Eval Interval	27 DA-A	42 DA-A	-			27 DA-A	42 DA-A
ARM Action Codes							
Number of Decimals							
Trt Treatment Rate							
No. Name Rate Unit	1	2	3	4	5	6	7
8 Rye	88 a	89 a	79 a	94 a	87 a	7 b	5 e
2 WBP							
Prowl H20 2.1 PT/A							
Reflex 1 PT/A							
Roudup WeatherMax 22 OZ/A							
Staple 1.7 OZ/A							
Direx 2 PT/A							
MSMA 2 LB A/A							
9 No cover	0 d	0 e	0 c	0 e	0 d	43 a	45 a
4 WBP							
No herbicide							
10 No cover	24 c	85 ab	68 a	69 d	59 c	19 b	12 de
4 WBP							
Prowl H20 2.1 PT/A							
Reflex 1 PT/A							
Roudup WeatherMax 22 OZ/A							
Staple 1.7 OZ/A							
Direx 2 PT/A							
MSMA 2 LB A/A							
11 No cover	0 d	0 e	0 c	0 e	0 d	37 a	40 a
2 WBP	υu	00	00	00	0 u	51 a	-τυ α
No herbicide							
	24 -	01	<u> </u>	74 -1	60 -	45 6	0.0
12 No cover	31 c	81 abc	66 a	71 d	60 c	15 b	9 e
2 WBP Browd H20 2.1 DT/A							
Prowl H20 2.1 PT/A							
Reflex 1 PT/A							
Roudup WeatherMax 22 OZ/A							
Staple 1.7 OZ/A							
Direx 2 PT/A							
MSMA 2 LB A/A							
LSD (P=.05)	15.2	15.0	14.7	4.4	11.8	15.0	5.7
Standard Deviation	10.6	10.4	10.2	3.0	8.2	10.4	4.0
CV	18.3	16.33		7.48	22.67	58.95	21.8
Bartlett's X2	8.28	14.106		6.904	17.518	22.128	12.297
P(Bartlett's X2)	0.506	0.119	0.491	0.228	0.004*	0.023*	0.342

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

			<u>y or (</u>					
Pest Type	W Weed							
Pest Code	AMAPA	Cover	Cover	Cover	Cover	Cover	Dry Matt	SEED
Crop Code								GOSHI
BBCH Scale								BCOT
Rating Date	Sep-15-07	Jul-14-07	Jul-14-07	Jul-14-07	Jul-14-07	Jul-14-07	Jul-14-07	Nov-02-07
Rating Data Type	. #	oz		dry			LB dry matt	
Rating Unit	45 sqft		moisture	matter	ACRE	ACRE	ACRE	plot
Days After First/Last Applic.	98			35		35	35	146
Trt-Eval Interval	00	00	00	00	00	00	00	110
ARM Action Codes								
Number of Decimals								
Trt Treatment Rate								
No. Name Rate Unit	8	9	10	11	12	13	14	15
1 Wheat	34 bc							0 c
4 WBP								
No herbicide								
2 Wheat	6 ef	1 a	0 a	1 a	59895 a	3743 a	3481 a	1 a
4 WBP	0.01	ιa	0 4	ıα	00000 u	07 <del>-</del> 0 u	0401 0	ıα
Prowl H20 2.1 PT/A		I						
Reflex 1 PT/A		I						
		I						
Roudup WeatherMax 22 OZ/A								
Staple 1.7 OZ/A								
Direx 2 PT/A								
MSMA 2 LB A/A								
3 Wheat	36 b							0 c
2 WBP								
No herbicide								
4 Wheat	5 f	2 a	0 a	1 a	66429 a	4152 a	3861 a	1 a
2 WBP	51	2 a	0 a	ιa	00429 a	4152 a	5001 a	ιa
Prowl H20 2.1 PT/A								
Reflex 1 PT/A								
Roudup WeatherMax 22 OZ/A								
Staple 1.7 OZ/A								
Direx 2 PT/A								
MSMA 2 LB A/A								
5 Rye	29 cd							0 c
4 WBP								
No herbicide								
	7	2.5	0.5	1 -	<u> </u>	4000 -	2000 -	1 -
6 Rye	7 ef	2 a	0 a	1 a	68607 a	4288 a	3988 a	1 a
4 WBP								
Prowl H20 2.1 PT/A								
Reflex 1 PT/A		I						
Roudup WeatherMax 22 OZ/A		I						
Staple 1.7 OZ/A								
Direx 2 PT/A		I						
MSMA 2 LB A/A								
7 Rye	26 d							0 c
2 WBP		I						Ĵ
No herbicide		I						
		^	^		00004	0050	F004	
8 Rye	5 ef	2 a	0 a	1 a	96921 a	6058 a	5634 a	1 a
2 WBP		I						
Prowl H20 2.1 PT/A		I						
Reflex 1 PT/A		I						
Roudup WeatherMax 22 OZ/A								
Staple 1.7 OZ/A								
Direx 2 PT/A								
MSMA 2 LB A/A								
9 No cover	55 a							0 c
4 WBP	55 a	I						0.0
		I						
No herbicide	I	I						ļ

Pest Type	W Weed							
Pest Code	AMAPA	Cover	Cover	Cover	Cover	Cover	Dry Matt	
Crop Code								GOSHI
BBCH Scale	0 45 07	h. 1 4 4 0 7	1.1.4.4.07	1.1.4.4.07	1.1.4.4.07	h. 1 4 4 07	1.1.4.4.07	BCOT
Rating Date	Sep-15-07							Nov-02-07
Rating Data Type Rating Unit	# 45 caft	0Z plot	moisture	dry matter	ACRE	ACRE	LB dry matt ACRE	lb plot
Days After First/Last Applic.	45 sqft 98			35	ACRE 35		ACRE 35	
Trt-Eval Interval	50		55	55			55	140
ARM Action Codes								
Number of Decimals								
Trt Treatment Rate								
No. Name Rate Unit	8	9	10	11	12	13	14	15
10 No cover	13 e							1 b
4 WBP								
Prowl H20 2.1 PT/A								
Reflex 1 PT/A Roudup WeatherMax 22 OZ/A								
Roudup WeatherMax 22 OZ/A Staple 1.7 OZ/A								
Direx 2 PT/A								
MSMA 2 LB A	А							
11 No cover	54 a							0 c
2 WBP								
No herbicide								
12 No cover	10 ef							1 b
2 WBP								
Prowl H20 2.1 PT/A								
Reflex 1 PT/A								
Roudup WeatherMax 22 OZ/A								
Staple 1.7 OZ/A								
Direx 2 PT/A MSMA 2 LB A	•							
LSD (P=.05)	6.9			0.3	64570.5	4035.7	3753.2	0.2
Standard Deviation CV	4.8 20.72			0.2	40369.8 55.33	2523.1 55.33	2346.5	0.1 25.16
CV Bartlett's X2	20.72			23.84 0.0	55.33 1.253	55.33 1.253	55.33 1.253	
P(Bartlett's X2)	0.024*	0.74	0.0	0.0	0.74	0.74	0.74	
(Bardone)	0.024	0.74		•	0.7 4	0.74	0.74	0.700

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

### AOV Means Table Page 8 of 13

Pest	t Type			
Pes	t Code			SEED
Cro	p Code			GOSHI
BBC	CH Scale			BCOT
Rati	ng Date			Nov-02-07
	ng Data Type			LB
	ng Unit			ACRE
	s After First/Last Applic			146
-	Eval Interval			
	Action Codes			TY1
	hber of Decimals			1
	Treatment	D	ate	
	Name	Rate U		16
		Nale U	int	
1	Wheat			0.0 c
	4 WBP			
	No herbicide			
2	Wheat			701.3 a
	4 WBP			
	Prowl H20	2.1 P	T/A	
	Reflex	1 P	T/A	
	Roudup WeatherMax	22 O	Z/A	
	Staple	1.7 O		
	Direx	2 P		
	MSMA		3 A/A	
3	Wheat	2 L	- 1 111	0.0 c
3				0.0 C
	2 WBP			
	No herbicide			
4	Wheat			833.4 a
	2 WBP			
	Prowl H20	2.1 P	T/A	
	Reflex	1 P	T/A	
	Roudup WeatherMax	22 O	Z/A	
	Staple	1.7 O		
	Direx	2 P	T/A	
	MSMA		B A/A	
5	Rve			0.0 c
5	4 WBP			0.0 C
	No herbicide			
6	Rye			781.2 a
	4 WBP			
	Prowl H20	2.1 P		
	Reflex	1 P	T/A	
	Roudup WeatherMax	22 O	Z/A	
	Staple	1.7 O	Z/A	
	Direx	2 P	T/A	
	MSMA	2 L	B A/A	
7	Rye			0.0 c
	2 WBP			0.0 0
	No herbicide			
_				040.0
8	Rye			818.9 a
	2 WBP			
	Prowl H20	2.1 P	-	
	Reflex	1 P	T/A	
	Roudup WeatherMax	22 O	Z/A	
	Staple	1.7 O	Z/A	
	Direx	2 P	T/A	
	MSMA		B A/A	
٥	No cover			0.0 c
9	4 WBP			0.0 0
	A WDP No herbicide			

Pes Croj BBC Rati Rati Rati Day Trt-E ARN	t Type t Code o Code CH Scale ng Date ng Data Type ng Unit s After First/Last Applic Eval Interval I Action Codes nber of Decimals			SEED GOSHI BCOT Nov-02-07 LB ACRE 146 TY1 1
Trt No	Treatment Name	Rate	Rate Unit	16
	No cover 4 WBP Prowl H20 Reflex Roudup WeatherMax Staple Direx MSMA	2.1 1 22 1.7 2	PT/A	424.0 b
11	No cover 2 WBP No herbicide		-	0.0 c
12	No cover 2 WBP Prowl H20 Reflex Roudup WeatherMax Staple Direx MSMA	1 22 1.7 2	,, .	546.0 b
Star CV Bart	(P=.05) ndard Deviation lett's X2 artlett's X2)			124.26 86.06 25.16 2.979 0.703

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT) Column 16: TY1 = 580.8\*[15]

_					
Ш	apact of cover crop	-	ement of glyphoste-resistant undup Ready cotton.	t Palmer amara	anth in
Trial ID: C3	-07		otocol ID:		
	acon County		Director: Stanley Culpepper	2	
		_	estigator: Stanley Culpepper		
	Gener		Information		
Study Director:	Stanley Culpepper		Title: Ext. We	ed Science	
-	Univ. of Georgia				
Postal Code:		E-mail:			
Investigator:	Stanley Culpepper		Title: Ext. We	ed Science	
Affiliation:	Univ. of Georgia				
Postal Code:	31794	E-mail:			
Keywords:					
	Tr	ial Locat	ion		
City: Ma		141 20040	Trial Status:	completed	
State/Prov.: Ge	-		Trial Reliability:	-	
Postal Code:	-		Initiation Date:		
Country: US			Planned Completion Date:		
Latitude of	LL Corner °:		-Longitude of LL Corner °:		
Altitude of LL	Corner: Un:	it:	_ Angle y-axis to North °:		
Map Reference:		_			
Directions:					
a		0661-1-1			
Conducted Under Conducted Under			Trial Code: Trial Code:		
Conducted onder	GEP: _	Other			
Guideline			Description		1
1.					
±•					1
— Objectives:					
objectives:					
Conclusions:					
	Coope	rator/Lan	ldowner		
Cooperator: _			Country:		
Organization: _			Phone No:		
Address 1: _			Fax No:		
Address 2: _					
City: _					
State/Prov: _					
Postal Code:	E-ma	il:			

Crop Description										
Crop 1: GOSHI Gossypium hirsut	um Cotton, American upland									
Variety: DP 555 BRR	Description:									
BBCH Scale: BCOT	Planting Date: Apr-18-07									
Planting Method: hill drop	Rate, Unit: 3 ft									
Depth, Unit: 0.75 in	Perennial Age, Unit:									
Row Spacing, Unit: 36 in	Spacing Within Row, Unit:									
Seed Bed: bedded	Soil Temperature, Unit: 65 F									
Soil Moisture: moist	Emergence Date: Apr-23-07									
Harvest Date:	Harvest Equipment:									
Harvested Width, Unit:	Harvested Length, Unit:									
<pre>% Standard Moisture:</pre>	Moisture Meter:									
Weighing Equipment:										

		Pest Description				
Pest	1 Type: W Code:	AMAPA Amaranth, Palmer				
	Common Name:	Amaranthus palmeri				
	Description:					

		Site	e and Design	
Plot Width, Unit:	12	FT	Site Type:	on farm
Plot Length, Unit:	25	FT	Tillage Type:	conv/strip-till
Replications:	4		Study Design:	Factorial
% Slope:			Soil Drainage:	

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

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

Comment:

Field Prep./Maintenance:

### Soil Description

					DOTT DEDCTTPCTON		
De	escript	tion	Name:				
%	Sand:	82	% OM:	2.0	Texture:	loamy sand	
%	silt:	14	pH:	6.3	Soil Name:		
%	Clay:	4	CEC:		Fert. Level:		
Ar	alyzed	i By	:				

Additional	Measured Elemen	its
Element	Quantity	Unit

Moisture Conditions
Overall Moisture Conditions: dry
Closest Weather Station: \_\_\_\_\_ Distance: \_\_\_\_ Unit: \_\_\_

	Date	Time	Amount	Unit	Туре	Interval	Unit
1.							

	Application Description						
	А	В	С				
Application Date:	Apr-18-07	May-15-07	Jun-09-07				
Time of Day:	7:00 pm	6:00 pm	1:00 pm				
Application Method:	broadcast	broadcast	broadcast				
Application Timing:	PRE	POST	PD				
Application Placement:	on soil	overtop	directed				
Applied By:	Culpepper	Culpepper	Culpepper				
Air Temperature, Unit:	75 F	85 F	94 F				
% Relative Humidity:	52	39	41				
Wind Velocity, Unit:	2 mph	3 mph	6 mph				
Wind Direction:							
Dew Presence (Y/N):	Ν	N	N				
Water Hardness:							
Soil Temperature, Unit:	70 F	88 F	96 F				
Soil Moisture:	moist	fair	fair				
% Cloud Cover:	0	40	0				
Next Rain Occurred On:							

### Crop Stage At Each Application

		A	F	3	C	
Crop 1 Code, BBCH Scale:	GOSHI	BCOT	GOSHI H	BCOT	GOSHI B	COT
Stage Scale Used:	BBCH		BBCH		BBCH	
Stage Majority, Percent:	00	100	1 leaf	100	10 leaf	100
Stage Minimum, Percent:			1 leaf	100	10 leaf	100
Stage Maximum, Percent:			1 leaf	100	10 leaf	100
Diameter, Unit:						
Height, Unit:	0	in	3	in	10	in
Height Minimum, Maximum:	0	0	2	4	10	10

Pest Stage At Each Application	n
--------------------------------	---

		A		В		C
Pest 1 Code, Disc., Scale:	AMAPA	W PRE	AMAPA	W POST	AMAPA	W Layb
Stage Majority, Percent:	0	100				
Stage Minimum, Percent:	0	100				
Stage Maximum, Percent:	0	100				
Diameter, Unit:						
Height, Unit:	0	in	4	in	7	in
Height Minimum, Maximum:	0	0	1	8	4	10
Density, Unit:	0.	•	0.	•	0.	•
Coverage, Unit:						

	Application Equi	pment	
	A	В	C
Appl. Equipment:	Backpack	Backpack	Backpack
Operating Pressure, Unit:	24 psi	24 psi	26 psi
Nozzle Type:	flat fan	flat fan	floodjet
Nozzle Size:	11002	11002	TK2
Nozzle Spacing, Unit:	18 in	18 in	36 in
Nozzles/Row:	2	2	1
Nozzle Calibration, Unit:			
Band Width, Unit:			
Boom ID:			
Boom Length, Unit:	4.5 ft	4.5 ft	
Boom Height, Unit:	15 in	15 in	12 in
Ground Speed, Unit:	3 mph	3 mph	3 mph
Incorporation Equip.:			
Hours to Incorp.:			
Incorp. Depth, Unit:			
Carrier:	water	water	water
Spray Volume, Unit:	15 GAL/AC	15 GAL/AC	15 GAL/AC
Mix Size, Unit:			
Spray pH:			
Propellant:	C02	C02	C02
Tank Mix (Y/N):			

Equipment Comment:

Trt No Treatment Application Comment

Date By Notes

Date By Deviations

Reasons: