

University of Georgia

Pigweed and annual grass programs in Roundup Ready Flex Cotton

Trial ID: C37-07

Study Dir.: Stanley Culpepper

Location: Ponder Farm

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 Unit	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code	Amt to Measure	Product	Plot No. By Rep			
											1	2	3	4
1	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75	LB AE/A	2 lf	C	11.26 ml/mx		101	215	311	411
	PARRLAY	8 #/G	SC		1.33	LB A/A	2 lf	C	11.23 ml/mx					
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75	LB AE/A	8 lf	D	11.26 ml/mx					
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75	LB AE/A	bloom	E	11.26 ml/mx					
2	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75	LB AE/A	2 lf	C	11.26 ml/mx		102	207	313	413
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75	LB AE/A	8 lf	D	11.26 ml/mx					
	PARRLAY	8 #/G	SC		1.33	LB A/A	8 lf	D	11.23 ml/mx					
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75	LB AE/A	bloom	E	11.26 ml/mx					
3	REFLEX	2 #/G	EC		0.25	LB A/A	PRE	B	8.445 ml/mx		103	214	302	402
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75	LB AE/A	2 lf	C	11.26 ml/mx					
	PARRLAY	8 #/G	SC		1.33	LB A/A	2 lf	C	11.23 ml/mx					
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75	LB AE/A	8 lf	D	11.26 ml/mx					
4	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75	LB AE/A	bloom	E	11.26 ml/mx					
	REFLEX	2 #/G	EC		0.25	LB A/A	PRE	B	8.445 ml/mx		104	218	312	412
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75	LB AE/A	2 lf	C	11.26 ml/mx					
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75	LB AE/A	8 lf	D	11.26 ml/mx					
5	PARRLAY	8 #/G	SC		1.33	LB A/A	8 lf	D	11.23 ml/mx					
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75	LB AE/A	8 lf	D	11.26 ml/mx					
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75	LB AE/A	bloom	E	11.26 ml/mx					
	COTORAN 4	4 #/G	SC		1.0	LB A/A	PRE	B	16.89 ml/mx		105	213	316	416
6	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75	LB AE/A	2 lf	C	11.26 ml/mx					
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75	LB AE/A	8 lf	D	11.26 ml/mx					
	PARRLAY	8 #/G	SC		1.33	LB A/A	8 lf	D	11.23 ml/mx					
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75	LB AE/A	bloom	E	11.26 ml/mx		106	209	301	401
7	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75	LB AE/A	2 lf	C	11.26 ml/mx					
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75	LB AE/A	8 lf	D	11.26 ml/mx					
	PARRLAY	8 #/G	SC		1.33	LB A/A	2 lf	C	11.23 ml/mx					
	VALOR SX	51 %	WG		0.064	LB A/A	PREPLANT	A	1.016 g/mx		107	201	309	409
8	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75	LB AE/A	8 lf	D	11.26 ml/mx					
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75	LB AE/A	bloom	E	11.26 ml/mx					
	PARRLAY	8 #/G	SC		1.33	LB A/A	8 lf	D	11.23 ml/mx					
	VALOR SX	51 %	WG		0.064	LB A/A	PREPLANT	A	1.016 g/mx		108	211	317	417
9	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75	LB AE/A	2 lf	C	11.26 ml/mx					
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75	LB AE/A	8 lf	D	11.26 ml/mx					
	PARRLAY	8 #/G	SC		1.33	LB A/A	2 lf	C	11.23 ml/mx					
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75	LB AE/A	PD	F	11.26 ml/mx		109	202	303	403
10	DIREX	4 #/G	SC		0.3	LB A/A	PD	F	5.067 ml/mx					
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75	LB AE/A	2 lf	C	11.26 ml/mx					
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75	LB AE/A	8 lf	D	11.26 ml/mx					
	PARRLAY	8 #/G	SC		1.33	LB A/A	8 lf	D	11.23 ml/mx					
10	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75	LB AE/A	PD	F	11.26 ml/mx		110	216	310	410
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75	LB AE/A	8 lf	D	11.26 ml/mx					
	PARRLAY	8 #/G	SC		1.33	LB A/A	8 lf	D	11.23 ml/mx					
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75	LB AE/A	PD	F	11.26 ml/mx					
10	DIREX	4 #/G	SC		0.3	LB A/A	PD	F	5.067 ml/mx					

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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 Unit	Form Type	Rate	Grow Stg	Appl Code	Amt to Measure	Product	Plot No. By Rep			
										1	2	3	4
11	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75 LB	AE/A	2 If	C	11.26 ml/mx	111	208	307	407
	PARRLAY	8 #/G		SC	1.33 LB	A/A	2 If	C	11.23 ml/mx				
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75 LB	AE/A	8 If	D	11.26 ml/mx				
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75 LB	AE/A	PD	F	11.26 ml/mx				
	VALOR SX	51 %		WG	0.064 LB	A/A	PD	F	1.016 g/mx				
12	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75 LB	AE/A	2 If	C	11.26 ml/mx	112	206	308	408
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75 LB	AE/A	8 If	D	11.26 ml/mx				
	PARRLAY	8 #/G		SC	1.33 LB	A/A	8 If	D	11.23 ml/mx				
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75 LB	AE/A	PD	F	11.26 ml/mx				
	VALOR SX	51 %		WG	0.064 LB	A/A	PD	F	1.016 g/mx				
13	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75 LB	AE/A	2 If	C	11.26 ml/mx	113	217	314	414
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75 LB	AE/A	8 If	D	11.26 ml/mx				
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75 LB	AE/A	bloom	E	11.26 ml/mx				
14	COTORAN 4	4 #/G		SC	1.0 LB	A/A	PRE	B	16.89 ml/mx	114	210	315	415
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75 LB	AE/A	2 If	C	11.26 ml/mx				
	Dual Magnum	7.62 #/G		SC	1.33 LB	A/A	2 If	C	11.79 ml/mx				
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75 LB	AE/A	8 If	D	11.26 ml/mx				
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75 LB	AE/A	bloom	E	11.26 ml/mx				
15	DIREX	4 #/G		SC	1.0 LB	A/A	PRE	B	16.89 ml/mx	115	205	304	404
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75 LB	AE/A	2 If	C	11.26 ml/mx				
	Dual Magnum	7.62 #/G		SC	1.33 LB	A/A	2 If	C	11.79 ml/mx				
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75 LB	AE/A	8 If	D	11.26 ml/mx				
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75 LB	AE/A	bloom	E	11.26 ml/mx				
16	Reflex	2		L	1 PT/A		PRE	B	8.445 ml/mx	116	212	306	406
	Direx	4 #/G		SC	1.0 LB	A/A	PRE	B	16.89 ml/mx				
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75 LB	AE/A	2 If	C	11.26 ml/mx				
	PARRLAY	8 #/G		SC	1.33 LB	A/A	2 If	C	11.23 ml/mx				
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75 LB	AE/A	8 If	D	11.26 ml/mx				
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75 LB	AE/A	bloom	E	11.26 ml/mx				
17	Reflex	2		L	0.75 PT/A		PRE	B	6.334 ml/mx	117	203	305	405
	Direx	4 #/G		SC	1.5 LB	A/A	PRE	B	25.34 ml/mx				
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75 LB	AE/A	2 If	C	11.26 ml/mx				
	PARRLAY	8 #/G		SC	1.33 LB	A/A	2 If	C	11.23 ml/mx				
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75 LB	AE/A	8 If	D	11.26 ml/mx				
	ROUNDUP WEATHERMAX	4.5 #/G	AE	SL	0.75 LB	AE/A	bloom	E	11.26 ml/mx				
18	Non-treated									118	204	318	418

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
717.830	ml	ROUNDUP WEATHERMAX	4.5	SL	
196.559	ml	PARRLAY	8	SC	
21.113	ml	REFLEX	2	EC	
63.338	ml	COTORAN 4	4	SC	
5.080	g	VALOR SX	51	WG	
86.562	ml	DIREX	4	SC	
29.480	ml	Dual Magnum	7.62	SC	
18.474	ml	Reflex	2	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.

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Pigweed and annual grass programs in Roundup Ready Flex Cotton

Trial ID: C37-07

Study Dir.: Stanley Culpepper

Location: Ponder Farm

Investigator: Stanley Culpepper

Trial Comments

OBJECTIVE: Determine the most effective program to manage glyphosate-sensitive Palmer amaranth.

COTTON RESPONSE:

1. Injury greater than 10% was only noted with preplant applications of Valor; stand loss was noted. Injury was likely in response to 7 d between application and planting.

WEED RESPONSE:

Palmer Response:

1. At 18 DAP, control was generally less with Valor systems applied preplant compared to other PRE treatments. Less control was likely in response to the herbicide being applied prior to planting when the wheat was still standing and impeding Valor contact with the soil.
2. POST applications of glyphosate provided complete control.
3. At harvest, less than 90% control was noted with glyphosate alone, glyphosate plus Parray only systems, and Cotoran or Diuron PRE followed by glyphosate/metolachlor at 2 leaf and no residual at layby.
4. At harvest, programs with Reflex PRE, Valor PRE or PD, metolachlor at 8 leaf (late in the season), or Direx at layby provided excellent control.

Crowfootgrass:

1. At 18 DAP, all residual herbicides including Valor preplant (this is rare) provided excellent control.
2. Glyphosate POST provided excellent control throughout the season.
3. At harvest, excellent control was noted when glyphosate based programs included Cotoran PRE or Valor Preplant followed with Parray at 8 leaf; Parray at 2 or 8 leaf followed by Direx or Valor at layby, and with Reflex plus 1.5 lb of Direx PRE followed by Parray at 2 leaf.

Pitted Morningglory:

1. At 18 DAP, control was excellent with Direx or Cotoran. Control was also excellent with Valor which is rare for the high level of control which may have been in response to timely irrigation.
2. Glyphosate POST provided excellent control as applications were very timely.
3. At harvest, control from all programs was excellent.

SEED COTTON YIELD:

1. Stand loss from Valor preplant application was noted resulting in lower yields. Again, the 14 day time interval needed between application and planting was not followed in this trial.
2. The only other system that tended to produce less cotton was Direx followed by Roundup + Dual followed by sequential glyphosate applications which was also the program that provided the least amount of numerical Palmer amaranth control at harvest.

Conclusions:

1. At least two residual herbicides are needed in a systems approach to control Palmer and grasses. It appears spreading the residual herbicides into one during early season (preplant, pre, 2 leaf) and one late-season (8 leaf or layby) is the most effective program for grasses and glyphosate-SENSITIVE Palmer amaranth.

Note:

1. Irrigation was implemented within 5 days of each application.

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Trial ID: C37-07

Study Dir.: Stanley Culpepper

Location: Ponder Farm

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Weed Code			cotton	cotton	cotton	cotton	cotton	cotton	cotton	
Crop Code			%	%	%	%	%	%	%	
Rating Data Type			injury	injury	injury	injury	injury	injury	injury	
Rating Unit										
Rating Date			May-20-07	May-25-07	May-27-07	Jun-16-07	Jun-24-07	Jul-03-07	Jul-11-07	
Trt-Eval Interval			18 DA-B	5 DA-C	7 DA-C	27 DA-C	8 DA-D	17 DA-D	8 DA-F	
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7
1	ROUNDUP WEATHERMAX	0.75	LB AE/A	0 b	6 abc	5 abc	0 d	0 a	0 b	0 b
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
2	ROUNDUP WEATHERMAX	0.75	LB AE/A	0 b	2 bc	1 bc	7 ab	0 a	0 b	0 b
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
3	REFLEX	0.25	LB A/A	5 b	6 abc	3 bc	0 d	0 a	0 b	0 b
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
4	REFLEX	0.25	LB A/A	2 b	6 abc	6 abc	7 ab	0 a	0 b	0 b
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
5	COTORAN 4	1.0	LB A/A	3 b	3 abc	6 abc	0 d	0 a	0 b	0 b
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
6	COTORAN 4	1.0	LB A/A	3 b	2 abc	5 abc	9 a	0 a	0 b	0 b
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
7	VALOR SX	0.064	LB A/A	13 a	4 abc	15 a	5 bc	0 a	0 b	0 b
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
8	VALOR SX	0.064	LB A/A	15 a	8 abc	9 abc	5 ab	0 a	1 ab	0 b
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
9	ROUNDUP WEATHERMAX	0.75	LB AE/A	0 b	0 c	1 bc	7 ab	0 a	2 a	0 b
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	DIREX	0.3	LB A/A							

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Weed Code								
Crop Code		cotton	cotton	cotton	cotton	cotton	cotton	cotton
Rating Data Type		%	%	%	%	%	%	%
Rating Unit		injury	injury	injury	injury	injury	injury	injury
Rating Date		May-20-07	May-25-07	May-27-07	Jun-16-07	Jun-24-07	Jul-03-07	Jul-11-07
Trt-Eval Interval		18 DA-B	5 DA-C	7 DA-C	27 DA-C	8 DA-D	17 DA-D	8 DA-F
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	1	2	3	4	5	6	7
10 ROUNDUP WEATHERMAX	0.75 LB AE/A	0 b	2 abc	1 bc	8 ab	0 a	0 b	0 b
ROUNDUP WEATHERMAX	0.75 LB AE/A							
PARRLAY	1.33 LB A/A							
ROUNDUP WEATHERMAX	0.75 LB AE/A							
DIREX	0.3 LB A/A							
11 ROUNDUP WEATHERMAX	0.75 LB AE/A	0 b	7 abc	5 abc	0 d	0 a	0 b	9 a
PARRLAY	1.33 LB A/A							
ROUNDUP WEATHERMAX	0.75 LB AE/A							
ROUNDUP WEATHERMAX	0.75 LB AE/A							
VALOR SX	0.064 LB A/A							
12 ROUNDUP WEATHERMAX	0.75 LB AE/A	0 b	0 c	3 bc	6 ab	0 a	0 b	9 a
ROUNDUP WEATHERMAX	0.75 LB AE/A							
PARRLAY	1.33 LB A/A							
ROUNDUP WEATHERMAX	0.75 LB AE/A							
VALOR SX	0.064 LB A/A							
13 ROUNDUP WEATHERMAX	0.75 LB AE/A	0 b	0 c	5 bc	1 d	0 a	0 b	0 b
ROUNDUP WEATHERMAX	0.75 LB AE/A							
ROUNDUP WEATHERMAX	0.75 LB AE/A							
14 COTORAN 4	1.0 LB A/A	4 b	5 abc	7 abc	1 cd	0 a	0 b	0 b
ROUNDUP WEATHERMAX	0.75 LB AE/A							
Dual Magnum	1.33 LB A/A							
ROUNDUP WEATHERMAX	0.75 LB AE/A							
ROUNDUP WEATHERMAX	0.75 LB AE/A							
15 DIREX	1.0 LB A/A	4 b	8 abc	8 abc	0 d	0 a	0 b	0 b
ROUNDUP WEATHERMAX	0.75 LB AE/A							
Dual Magnum	1.33 LB A/A							
ROUNDUP WEATHERMAX	0.75 LB AE/A							
ROUNDUP WEATHERMAX	0.75 LB AE/A							
16 Reflex	1 PT/A	3 b	9 ab	10 ab	0 d	0 a	0 b	0 b
Direx	1.0 LB A/A							
ROUNDUP WEATHERMAX	0.75 LB AE/A							
PARRLAY	1.33 LB A/A							
ROUNDUP WEATHERMAX	0.75 LB AE/A							
ROUNDUP WEATHERMAX	0.75 LB AE/A							
17 Reflex	0.75 PT/A	3 b	10 a	8 abc	0 d	0 a	0 b	0 b
Direx	1.5 LB A/A							
ROUNDUP WEATHERMAX	0.75 LB AE/A							
PARRLAY	1.33 LB A/A							
ROUNDUP WEATHERMAX	0.75 LB AE/A							
ROUNDUP WEATHERMAX	0.75 LB AE/A							
18 Non-treated		0 b	0 c	0 c	0 d	0 a	0 b	0 b
LSD (P=.05)		4.4	6.6	8.1	3.4	0.0	1.5	1.1
Standard Deviation		3.1	4.7	5.7	2.4	0.0	1.1	0.8
CV		102.91	112.39	107.63	79.16	0.0	637.4	80.48
Bartlett's X2		5.49	11.621	19.369	11.825	0.0	1.327	1.31
P(Bartlett's X2)		0.79	0.559	0.25	0.223	.	0.249	0.252

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

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Weed Code			AMAPA	AMAPA	AMAPA	AMAPA	AMAPA	AMAPA	DTTAE	
Crop Code										
Rating Data Type			%	%	%	%	%	%	%	
Rating Unit			control	control	control	control	control	control	control	
Rating Date			May-20-07	May-27-07	Jun-16-07	Jun-24-07	Jul-03-07	Sep-03-07	May-20-07	
Trt-Eval Interval			18 DA-B	7 DA-C	27 DA-C	8 DA-D	17 DA-D	62 DA-F	18 DA-B	
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	8	9	10	11	12	13	14
1	ROUNDUP WEATHERMAX	0.75	LB AE/A	0 c	99 a	99 a	99 a	99 ab	89 cde	0 d
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
2	ROUNDUP WEATHERMAX	0.75	LB AE/A	0 c	99 a	99 a	99 a	99 a	88 cde	0 d
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
3	REFLEX	0.25	LB A/A	99 a	99 a	99 a	99 a	99 a	92 a-d	99 a
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
4	REFLEX	0.25	LB A/A	99 a	99 a	99 a	99 a	99 a	96 abc	97 ab
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
5	COTORAN 4	1.0	LB A/A	96 a	99 a	99 a	99 a	98 b	89 bcd	97 a
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
6	COTORAN 4	1.0	LB A/A	99 a	99 a	99 a	99 a	99 a	95 a-d	98 a
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
7	VALOR SX	0.064	LB A/A	88 b	99 a	99 a	99 a	99 a	87 cde	94 bc
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
8	VALOR SX	0.064	LB A/A	90 b	99 a	99 a	99 a	99 a	99 a	93 c
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
9	ROUNDUP WEATHERMAX	0.75	LB AE/A	0 c	99 a	99 a	99 a	99 a	98 ab	0 d
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	DIREX	0.3	LB A/A							
10	ROUNDUP WEATHERMAX	0.75	LB AE/A	0 c	99 a	99 a	99 a	99 a	94 a-d	0 d
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	DIREX	0.3	LB A/A							

University of Georgia

Weed Code	AMAPA	AMAPA	AMAPA	AMAPA	AMAPA	AMAPA	DTTAE		
Crop Code									
Rating Data Type	%	%	%	%	%	%	%		
Rating Unit	control	control	control	control	control	control	control		
Rating Date	May-20-07	May-27-07	Jun-16-07	Jun-24-07	Jul-03-07	Sep-03-07	May-20-07		
Trt-Eval Interval	18 DA-B	7 DA-C	27 DA-C	8 DA-D	17 DA-D	62 DA-F	18 DA-B		
ARM Action Codes									
# Subsamples, Dec.									
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
No. Name	Rate	Unit	8	9	10	11	12	13	14
11 ROUNDUP WEATHERMAX	0.75	LB AE/A	0 c	99 a	99 a	99 a	99 a	99 a	0 d
PARRLAY	1.33	LB A/A							
ROUNDUP WEATHERMAX	0.75	LB AE/A							
ROUNDUP WEATHERMAX	0.75	LB AE/A							
VALOR SX	0.064	LB A/A							
12 ROUNDUP WEATHERMAX	0.75	LB AE/A	0 c	99 a	99 a	99 a	99 a	99 a	0 d
ROUNDUP WEATHERMAX	0.75	LB AE/A							
PARRLAY	1.33	LB A/A							
ROUNDUP WEATHERMAX	0.75	LB AE/A							
VALOR SX	0.064	LB A/A							
13 ROUNDUP WEATHERMAX	0.75	LB AE/A	0 c	99 a	99 a	99 a	99 a	88 cde	0 d
ROUNDUP WEATHERMAX	0.75	LB AE/A							
ROUNDUP WEATHERMAX	0.75	LB AE/A							
14 COTORAN 4	1.0	LB A/A	96 a	99 a	99 a	99 a	99 a	86 de	91 c
ROUNDUP WEATHERMAX	0.75	LB AE/A							
Dual Magnum	1.33	LB A/A							
ROUNDUP WEATHERMAX	0.75	LB AE/A							
ROUNDUP WEATHERMAX	0.75	LB AE/A							
15 DIREX	1.0	LB A/A	99 a	99 a	99 a	99 a	99 a	80 e	99 a
ROUNDUP WEATHERMAX	0.75	LB AE/A							
Dual Magnum	1.33	LB A/A							
ROUNDUP WEATHERMAX	0.75	LB AE/A							
ROUNDUP WEATHERMAX	0.75	LB AE/A							
16 Reflex	1	PT/A	99 a	99 a	99 a	99 a	99 a	96 abc	99 a
Direx	1.0	LB A/A							
ROUNDUP WEATHERMAX	0.75	LB AE/A							
PARRLAY	1.33	LB A/A							
ROUNDUP WEATHERMAX	0.75	LB AE/A							
ROUNDUP WEATHERMAX	0.75	LB AE/A							
17 Reflex	0.75	PT/A	98 a	99 a	99 a	99 a	99 a	96 abc	99 a
Direx	1.5	LB A/A							
ROUNDUP WEATHERMAX	0.75	LB AE/A							
PARRLAY	1.33	LB A/A							
ROUNDUP WEATHERMAX	0.75	LB AE/A							
ROUNDUP WEATHERMAX	0.75	LB AE/A							
18 Non-treated			0 c	0 b	0 b	0 b	0 c	0 f	0 d
LSD (P=.05)	3.1			0.0	0.0	0.0	0.8	7.8	3.1
Standard Deviation	2.2			0.0	0.0	0.0	0.5	5.5	2.2
CV	4.07			0.0	0.0	0.0	0.57	6.32	4.06
Bartlett's X2	13.484			0.0	0.0	0.0	1.327	33.146	10.218
P(Bartlett's X2)	0.019*			.	.	.	0.249	0.002*	0.069

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

University of Georgia

Weed Code			DTTAE	DTTAE	DTTAE	DTTAE	DTTAE	IPOLA	IPOLA	
Crop Code										
Rating Data Type			%	%	%	%	%	%	%	
Rating Unit			control	control	control	control	control	control	control	
Rating Date			May-27-07	Jun-16-07	Jun-24-07	Jul-03-07	Sep-03-07	May-20-07	May-27-07	
Trt-Eval Interval			7 DA-C	27 DA-C	8 DA-D	17 DA-D	62 DA-F	18 DA-B	7 DA-C	
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	15	16	17	18	19	20	21
1	ROUNDUP WEATHERMAX	0.75	LB AE/A	99 a	99 a	99 a	99 a	82 de	0 c	92 ab
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
2	ROUNDUP WEATHERMAX	0.75	LB AE/A	97 a	99 a	99 a	99 a	85 b-e	0 c	90 b
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
3	REFLEX	0.25	LB A/A	99 a	99 a	99 a	99 a	87 a-e	80 b	99 a
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
4	REFLEX	0.25	LB A/A	98 a	99 a	99 a	99 a	92 a-d	83 b	96 ab
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
5	COTORAN 4	1.0	LB A/A	99 a	99 a	99 a	99 a	84 b-e	95 a	99 a
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
6	COTORAN 4	1.0	LB A/A	99 a	99 a	99 a	99 a	96 ab	93 a	97 ab
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
7	VALOR SX	0.064	LB A/A	99 a	99 a	99 a	99 a	75 e	93 a	95 ab
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
8	VALOR SX	0.064	LB A/A	96 a	99 a	99 a	99 a	94 a-d	94 a	99 a
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
9	ROUNDUP WEATHERMAX	0.75	LB AE/A	99 a	99 a	99 a	99 a	98 a	0 c	96 ab
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	DIREX	0.3	LB A/A							
10	ROUNDUP WEATHERMAX	0.75	LB AE/A	98 a	99 a	99 a	99 a	98 a	0 c	92 ab
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	DIREX	0.3	LB A/A							

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Weed Code			DTTAE	DTTAE	DTTAE	DTTAE	DTTAE	IPOLA	IPOLA	
Crop Code										
Rating Data Type			%	%	%	%	%	%	%	
Rating Unit			control	control	control	control	control	control	control	
Rating Date			May-27-07	Jun-16-07	Jun-24-07	Jul-03-07	Sep-03-07	May-20-07	May-27-07	
Trt-Eval Interval			7 DA-C	27 DA-C	8 DA-D	17 DA-D	62 DA-F	18 DA-B	7 DA-C	
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	15	16	17	18	19	20	21
11	ROUNDUP WEATHERMAX	0.75	LB AE/A	98 a	99 a	99 a	99 a	98 a	0 c	96 ab
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	VALOR SX	0.064	LB A/A							
12	ROUNDUP WEATHERMAX	0.75	LB AE/A	99 a	99 a	99 a	99 a	99 a	0 c	95 ab
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	VALOR SX	0.064	LB A/A							
13	ROUNDUP WEATHERMAX	0.75	LB AE/A	95 a	99 a	99 a	99 a	82 de	0 c	96 ab
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
14	COTORAN 4	1.0	LB A/A	99 a	99 a	99 a	99 a	85 b-e	93 a	99 a
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	Dual Magnum	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
15	DIREX	1.0	LB A/A	99 a	99 a	99 a	99 a	83 cde	92 a	92 ab
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	Dual Magnum	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
16	Reflex	1	PT/A	99 a	99 a	99 a	99 a	82 de	98 a	99 a
	Direx	1.0	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
17	Reflex	0.75	PT/A	99 a	99 a	99 a	99 a	95 abc	97 a	99 a
	Direx	1.5	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	PARRLAY	1.33	LB A/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
	ROUNDUP WEATHERMAX	0.75	LB AE/A							
18	Non-treated			0 b	0 b	0 b	0 b	0 f	0 c	0 c
LSD (P=.05)				3.2	0.0	0.0	0.0	11.0	6.0	6.5
Standard Deviation				2.2	0.0	0.0	0.0	7.8	4.2	4.6
CV				2.42	0.0	0.0	0.0	9.27	8.26	5.11
Bartlett's X2				2.664	0.0	0.0	0.0	29.368	22.686	11.018
P(Bartlett's X2)				0.752	.	.	.	0.014*	0.007*	0.442

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

University of Georgia

Weed Code			IPOLA	IPOLA	IPOLA	IPOLA	seed	seed	
Crop Code							cotton	cotton	
Rating Data Type			%	%	%	%	lb	lb	
Rating Unit			control	control	control	control	plot	acre	
Rating Date			Jun-16-07	Jun-24-07	Jul-03-07	Sep-03-07	Sep-26-07	Sep-26-07	
Trt-Eval Interval			27 DA-C	8 DA-D	17 DA-D	62 DA-F	85 DA-F	85 DA-F	
ARM Action Codes								TY1	
# Subsamples, Dec.								1	
Trt No.	Treatment Name	Rate	Unit	22	23	24	25	26	27
1	ROUNDUP WEATHERMAX	0.75	LB AE/A	96 ab	99 a	99 a	96 ab	7 abc	2133.0 abc
	PARRLAY	1.33	LB A/A						
	ROUNDUP WEATHERMAX	0.75	LB AE/A						
	ROUNDUP WEATHERMAX	0.75	LB AE/A						
2	ROUNDUP WEATHERMAX	0.75	LB AE/A	94 b	99 a	93 b	96 ab	7 a-d	2038.6 a-d
	ROUNDUP WEATHERMAX	0.75	LB AE/A						
	PARRLAY	1.33	LB A/A						
	ROUNDUP WEATHERMAX	0.75	LB AE/A						
3	REFLEX	0.25	LB A/A	99 a	99 a	97 ab	99 ab	7 a-d	2012.5 a-d
	ROUNDUP WEATHERMAX	0.75	LB AE/A						
	PARRLAY	1.33	LB A/A						
	ROUNDUP WEATHERMAX	0.75	LB AE/A						
	ROUNDUP WEATHERMAX	0.75	LB AE/A						
4	REFLEX	0.25	LB A/A	99 a	99 a	99 a	99 ab	7 a-d	2054.6 a-d
	ROUNDUP WEATHERMAX	0.75	LB AE/A						
	ROUNDUP WEATHERMAX	0.75	LB AE/A						
	PARRLAY	1.33	LB A/A						
	ROUNDUP WEATHERMAX	0.75	LB AE/A						
5	COTORAN 4	1.0	LB A/A	99 a	99 a	97 ab	99 ab	7 a-d	1906.5 a-d
	ROUNDUP WEATHERMAX	0.75	LB AE/A						
	PARRLAY	1.33	LB A/A						
	ROUNDUP WEATHERMAX	0.75	LB AE/A						
	ROUNDUP WEATHERMAX	0.75	LB AE/A						
6	COTORAN 4	1.0	LB A/A	99 a	99 a	99 a	99 a	8 ab	2211.4 ab
	ROUNDUP WEATHERMAX	0.75	LB AE/A						
	ROUNDUP WEATHERMAX	0.75	LB AE/A						
	PARRLAY	1.33	LB A/A						
	ROUNDUP WEATHERMAX	0.75	LB AE/A						
7	VALOR SX	0.064	LB A/A	99 a	99 a	98 ab	95 b	5 d	1553.6 d
	ROUNDUP WEATHERMAX	0.75	LB AE/A						
	PARRLAY	1.33	LB A/A						
	ROUNDUP WEATHERMAX	0.75	LB AE/A						
	ROUNDUP WEATHERMAX	0.75	LB AE/A						
8	VALOR SX	0.064	LB A/A	98 ab	99 a	99 a	98 ab	6 cd	1629.1 cd
	ROUNDUP WEATHERMAX	0.75	LB AE/A						
	ROUNDUP WEATHERMAX	0.75	LB AE/A						
	PARRLAY	1.33	LB A/A						
	ROUNDUP WEATHERMAX	0.75	LB AE/A						
9	ROUNDUP WEATHERMAX	0.75	LB AE/A	99 a	99 a	99 a	99 a	8 a	2369.7 a
	PARRLAY	1.33	LB A/A						
	ROUNDUP WEATHERMAX	0.75	LB AE/A						
	ROUNDUP WEATHERMAX	0.75	LB AE/A						
	DIREX	0.3	LB A/A						
10	ROUNDUP WEATHERMAX	0.75	LB AE/A	98 ab	99 a	99 a	98 ab	8 a	2408.9 a
	ROUNDUP WEATHERMAX	0.75	LB AE/A						
	PARRLAY	1.33	LB A/A						
	ROUNDUP WEATHERMAX	0.75	LB AE/A						
	DIREX	0.3	LB A/A						

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Weed Code	IPOLA	IPOLA	IPOLA	IPOLA	seed cotton lb plot	seed cotton lb acre		
Crop Code								
Rating Data Type	%	%	%	%				
Rating Unit	control	control	control	control				
Rating Date	Jun-16-07	Jun-24-07	Jul-03-07	Sep-03-07	Sep-26-07	Sep-26-07		
Trt-Eval Interval	27 DA-C	8 DA-D	17 DA-D	62 DA-F	85 DA-F	85 DA-F		
ARM Action Codes						TY1		
# Subsamples, Dec.						1		
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate		
No. Name	Rate	Unit	22	23	24	25	26	27
11 ROUNDUP WEATHERMAX PARRLAY ROUNDUP WEATHERMAX ROUNDUP WEATHERMAX VALOR SX	0.75 1.33 0.75 0.75 0.064	LB AE/A LB A/A LB AE/A LB AE/A LB A/A	98 ab	99 a	99 a	99 a	8 ab	2324.7 ab
12 ROUNDUP WEATHERMAX ROUNDUP WEATHERMAX PARRLAY ROUNDUP WEATHERMAX VALOR SX	0.75 0.75 1.33 0.75 0.064	LB AE/A LB AE/A LB A/A LB AE/A LB A/A	99 a	99 a	99 a	98 ab	8 ab	2307.2 ab
13 ROUNDUP WEATHERMAX ROUNDUP WEATHERMAX ROUNDUP WEATHERMAX	0.75 0.75 0.75	LB AE/A LB AE/A LB AE/A	99 a	99 a	95 ab	96 ab	8 abc	2185.3 abc
14 COTORAN 4 ROUNDUP WEATHERMAX Dual Magnum ROUNDUP WEATHERMAX ROUNDUP WEATHERMAX	1.0 0.75 1.33 0.75 0.75	LB A/A LB AE/A LB A/A LB AE/A LB AE/A	98 ab	99 a	96 ab	96 ab	7 a-d	1982.0 a-d
15 DIREX ROUNDUP WEATHERMAX Dual Magnum ROUNDUP WEATHERMAX ROUNDUP WEATHERMAX	1.0 0.75 1.33 0.75 0.75	LB A/A LB AE/A LB A/A LB AE/A LB AE/A	99 a	99 a	99 a	98 ab	6 bcd	1772.9 bcd
16 Reflex Direx ROUNDUP WEATHERMAX PARRLAY ROUNDUP WEATHERMAX ROUNDUP WEATHERMAX	1 1.0 0.75 1.33 0.75 0.75	PT/A LB A/A LB AE/A LB A/A LB AE/A LB AE/A	99 a	99 a	99 a	98 ab	7 abc	2133.0 abc
17 Reflex Direx ROUNDUP WEATHERMAX PARRLAY ROUNDUP WEATHERMAX ROUNDUP WEATHERMAX	0.75 1.5 0.75 1.33 0.75 0.75	PT/A LB A/A LB AE/A LB A/A LB AE/A LB AE/A	99 a	99 a	95 ab	99 ab	8 ab	2277.5 ab
18 Non-treated			0 c	0 b	0 c	0 c	0 e	0.0 e
LSD (P=.05)	4.1	0.0	4.2	3.6	1.7	484.21		
Standard Deviation	2.9	0.0	3.0	2.6	1.2	342.39		
CV	3.15	0.0	3.25	2.8	17.46	17.46		
Bartlett's X2	8.612	0.0	19.957	27.307	20.01	20.01		
P(Bartlett's X2)	0.126	.	0.01*	0.011*	0.22	0.22		

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

Column 27: TY1 = 290.4*[26]

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MAINTENANCE

Field Prep./Maintenance:

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

SOIL DESCRIPTION

% Sand: 94	% OM: 1.3	Texture: sand
% Silt: 2	pH: 6.4	Soil Name: Tifton loamy sand
% 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: _____
 Closest Weather Station: _____ Distance: _____ Unit: _____

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	Apr-25-07	May-02-07	May-20-07	Jun-16-07	Jul-03-07	Jul-03-07
Time of Day:	7:00 am	7:00 pm	10:00 am	6:00 pm	7:30 am	7:30 am
Application Method:	broadcast	broadcast	broadcast	broadcast	broadcast	broadcast
Application Timing:	preplant	PRE	2 Leaf	8 Leaf	Bloom	PD
Applic. Placement:	overtop	on soil	overtop	overtop	overtop	directed
Air Temp., Unit:	77 F	88 F	70 F	94 F	76 F	76 F
% Relative Humidity:	48	30	62	34	82	82
Wind Velocity, Unit:	2 mph	0 mph	5 mph	3 mph	3 mph	3 mph
Dew Presence (Y/N):	Y	N	N	N	Y	Y
Water Hardness:						
Soil Temp., Unit:	74 F	84 F	70 F	95 F	76 F	76 F
Soil Moisture:	moist	moist	fair	fair	moist	moist
% Cloud Cover:	25	20	0	10	100	100

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E
Crop 1 Code, Stage:	GOSHI preplant	GOSHI PRE	GOSHI 2 leaf	GOSHI 8 leaf	GOSHI bloom
Stage Scale:	not plant	not up	2-3 leaf	8 leaf	15 leaf
Height, Unit:	0 inch	0 inch	3 in	10 in	20 in
	F				
Crop 1 Code, Stage:	GOSHI PD				
Stage Scale:	15 Leaf				
Height, Unit:	20 in				

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WEED STAGE AT EACH APPLICATION

	A	B	C	D	E
Weed 1 Code, Stage:	AMAPA preplant	AMAPA PRE	AMAPA 2 leaf	AMAPA 8 leaf	AMAPA bloom
Stage Scale:	not up	not up	2-4 in	< 4 in	< 6 in
Density, Unit:	0 ydsq	0 ydsq	15 ydsq	15 ydsq	4 ydsq
Weed 2 Code, Stage:	IPOLA preplant	IPOLA PRE	IPOLA 2 leaf	IPOLA 8 leaf	IPOLA bloom
Stage Scale:	not up	not up	0.5-2 in	1-4 inch	< 5 in
Density, Unit:	0 ydsq	0 ydsq	5 ydsq	5 ydsq	2 ydsq
Weed 3 Code, Stage:	DTTAE preplant	DTTAE PRE	DTTAE 2 leaf	DTTAE 9 leaf	DTTAE bloom
Stage Scale:	not up	not up	0.5-1in	< 3 in	< 4 inch
Density, Unit:	0 ydsq	0 ydsq	1 ydsq	7 ydsq	8 ydsq
	F				
Weed 1 Code, Stage:	AMAPA PD				
Stage Scale:	< 6 in				
Density, Unit:	4 ydsq				
Weed 2 Code, Stage:	IPOLA PD				
Stage Scale:	< 5 in				
Density, Unit:	2 ydsq				
Weed 3 Code, Stage:	DTTAE PD				
Stage Scale:	< 4 inch				
Density, Unit:	8 ydsq				

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	backpack	backpack	backpack	backpack	backpack	backpack
Operating Pressure:	24	24	24	24	24	26
Nozzle Type:	flat fan	flat fan	flat fan	flat fan	flat fan	floodjet
Nozzle Size:	11002	11002	11002	11002	11002	TK2
Nozzle Spacing, Unit:	18 in	18 in	18 in	18 in	18 in	36 inch
Nozzles/Row:	2	2	2	2	2	1
Band Width, Unit:						
Boom Length, Unit:	4.5 ft	4.5 ft	4.5 ft	4.5 ft	4.5 ft	
Boom Height, Unit:	15 in	15 in	15 in	15 in	15 in	12 inch
Ground Speed, Unit:	3 mph	3 mph	3 mph	3 mph	3 mph	3 mph
Incorporation Equip.:						
Hours to Incorp.:						
Incorp. Depth, Unit:						
Carrier:	water	water	water	water	water	water
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA	15 GPA	15 GPA	15 GPA
Spray pH:						
Propellant:	CO2	CO2	CO2	CO2	CO2	CO2
Tank Mix (Y/N):						

Trt No	Treatment Application Comment