

# University of Georgia

**Controlling winter and summer annual weeds in strip-till cotton.**

Trial ID: C9-05  
 Location: Jones Farm

Study Dir.: Culpepper  
 Investigator: Stanley Culpepper

Reps: 3                      Plots: 6 by 25 feet  
 Spray vol: 14.8 gal/ac      Mix size: 1 liters (min .57876)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Unit	Appl Stg	Product Code	Amt to Measure	Plot No. By Rep		
									1	2	3
1	Non-treated								101	202	305
2	Touchdown Total	4.17	L	0.75	lb ai/a	21 DBP	A	12.15 ml/mx	102	210	322
	Touchdown Total	4.17	L	0.75	lb ai/a	PRE	B	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	4 If	C	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	Layby	D	12.15 ml/mx			
3	Clarity	4	L	0.25	lb ai/a	21 DBP	A	4.223 ml/mx	103	215	320
	Touchdown Total	4.17	L	0.75	lb ai/a	21 DBP	A	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	PRE	B	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	4 If	C	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	Layby	D	12.15 ml/mx			
4	Clarity	4	L	0.25	lb ai/a	21 DBP	A	4.223 ml/mx	104	211	317
	A7813	2	L	0.63	lb ai/a	21 DBP	A	21.28 ml/mx			
	NIS		L	0.25	% v/v	21 DBP	A	2.5 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	PRE	B	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	4 If	C	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	Layby	D	12.15 ml/mx			
5	Clarity	4	L	0.25	lb ai/a	21 DBP	A	4.223 ml/mx	105	222	301
	A7813	2	L	0.75	lb ai/a	21 DBP	A	25.34 ml/mx			
	NIS		L	0.25	% v/v	21 DBP	A	2.5 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	PRE	B	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	4 If	C	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	Layby	D	12.15 ml/mx			
6	Clarity	4	L	0.25	lb ai/a	21 DBP	A	4.223 ml/mx	106	208	316
	A7813	2	L	0.93	lb ai/a	21 DBP	A	31.42 ml/mx			
	NIS		L	0.25	% v/v	21 DBP	A	2.5 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	PRE	B	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	4 If	C	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	Layby	D	12.15 ml/mx			
7	Clarity	4	L	0.25	lb ai/a	21 DBP	A	4.223 ml/mx	107	217	307
	A7813	2	L	0.75	lb ai/a	21 DBP	A	25.34 ml/mx			
	NIS		L	0.25	% v/v	21 DBP	A	2.5 ml/mx			
	Sequence	5.25	L	1.67	lb ai/a	PRE	B	21.49 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	4 If	C	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	Layby	D	12.15 ml/mx			
8	Clarity	4	L	0.25	lb ai/a	21 DBP	A	4.223 ml/mx	108	206	318
	A7813	2	L	0.93	lb ai/a	21 DBP	A	31.42 ml/mx			
	NIS		L	0.25	% v/v	21 DBP	A	2.5 ml/mx			
	Sequence	5.25	L	1.67	lb ai/a	PRE	B	21.49 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	4 If	C	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	Layby	D	12.15 ml/mx			
9	Clarity	4	L	0.25	lb ai/a	21 DBP	A	4.223 ml/mx	109	201	313
	A7813	2	L	0.75	lb ai/a	21 DBP	A	25.34 ml/mx			
	NIS		L	0.25	% v/v	21 DBP	A	2.5 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	PRE	B	12.15 ml/mx			
	Sequence	5.25	L	1.67	lb ai/a	4 If	C	21.49 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	Layby	D	12.15 ml/mx			
10	Clarity	4	L	0.25	lb ai/a	21 DBP	A	4.223 ml/mx	110	218	321
	A7813	2	L	0.93	lb ai/a	21 DBP	A	31.42 ml/mx			
	NIS		L	0.25	% v/v	21 DBP	A	2.5 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	PRE	B	12.15 ml/mx			
	Sequence	5.25	L	1.67	lb ai/a	4 If	C	21.49 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	Layby	D	12.15 ml/mx			

# University of Georgia

Reps: 3

Plots: 6 by 25 feet

Spray vol: 14.8 gal/ac

Mix size: 1 liters (min .57876)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Unit	Appl Stg	Product Code	Amt to Measure	Plot No. By Rep		
									1	2	3
11	Clarity	4	L	0.25	lb ai/a	21	DBP A	4.223 ml/mx	111	207	309
	A7813	2	L	0.75	lb ai/a	21	DBP A	25.34 ml/mx			
	NIS		L	0.25	% v/v	21	DBP A	2.5 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	PRE	B	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	4 If	C	12.15 ml/mx			
	Suprend	80	WG	1.2	lb ai/a	Layby	D	12.14 g/mx			
	COC		L	1	% v/v	Layby	D	9.999 ml/mx			
12	Clarity	4	L	0.25	lb ai/a	21	DBP A	4.223 ml/mx	112	209	304
	A7813	2	L	0.93	lb ai/a	21	DBP A	31.42 ml/mx			
	NIS		L	0.25	% v/v	21	DBP A	2.5 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	PRE	B	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	4 If	C	12.15 ml/mx			
	Suprend	80	WG	1.2	lb ai/a	Layby	D	12.14 g/mx			
	COC		L	1	% v/v	Layby	D	9.999 ml/mx			
13	Caparol	4	L	0.75	lb ai/a	21	DBP A	12.67 ml/mx	113	205	306
	A7813	2	L	0.63	lb ai/a	21	DBP A	21.28 ml/mx			
	NIS		L	0.25	% v/v	21	DBP A	2.5 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	PRE	B	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	4 If	C	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	Layby	D	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	Layby	D	12.15 ml/mx			
14	Caparol	4	L	0.75	lb ai/a	21	DBP A	12.67 ml/mx	114	221	302
	A7813	2	L	0.75	lb ai/a	21	DBP A	25.34 ml/mx			
	NIS		L	0.25	% v/v	21	DBP A	2.5 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	PRE	B	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	4 If	C	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	Layby	D	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	Layby	D	12.15 ml/mx			
15	Caparol	4	L	0.75	lb ai/a	21	DBP A	12.67 ml/mx	115	216	315
	A7813	2	L	0.93	lb ai/a	21	DBP A	31.42 ml/mx			
	NIS		L	0.25	% v/v	21	DBP A	2.5 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	PRE	B	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	4 If	C	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	Layby	D	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	Layby	D	12.15 ml/mx			
16	Caparol	4	L	1.0	lb ai/a	21	DBP A	16.89 ml/mx	116	203	310
	A7813	2	L	0.63	lb ai/a	21	DBP A	21.28 ml/mx			
	NIS		L	0.25	% v/v	21	DBP A	2.5 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	PRE	B	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	4 If	C	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	Layby	D	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	Layby	D	12.15 ml/mx			
17	Caparol	4	L	1.0	lb ai/a	21	DBP A	16.89 ml/mx	117	212	311
	A7813	2	L	0.75	lb ai/a	21	DBP A	25.34 ml/mx			
	NIS		L	0.25	% v/v	21	DBP A	2.5 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	PRE	B	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	4 If	C	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	Layby	D	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	Layby	D	12.15 ml/mx			
18	Caparol	4	L	1.0	lb ai/a	21	DBP A	16.89 ml/mx	118	214	303
	A7813	2	L	0.93	lb ai/a	21	DBP A	31.42 ml/mx			
	NIS		L	0.25	% v/v	21	DBP A	2.5 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	PRE	B	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	4 If	C	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	Layby	D	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	Layby	D	12.15 ml/mx			
19	AMS	100	DG	2	% w/v	21	DBP A	20.0 g/mx	119	213	319
	Touchdown Total	4.17	L	0.75	lb ai/a	21	DBP A	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	PRE	B	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	4 If	C	12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	Layby	D	12.15 ml/mx			

# University of Georgia

Reps: 3                      Plots: 6 by 25 feet  
 Spray vol: 14.8 gal/ac                      Mix size: 1 liters (min .57876)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Unit	Appl Stg	Product Code	Amt to Measure	Plot No. By Rep			
									1	2	3	
20	A7813	2	L	0.75	lb ai/a	21	DBP	A	25.34 ml/mx	120	219	308
	NIS		L	0.25	% v/v	21	DBP	A	2.5 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	PRE	B		12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	4 If	C		12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	Layby	D		12.15 ml/mx			
21	AMS	100	DG	2	% w/v	21	DBP	A	20.0 g/mx	121	204	312
	A7813	2	L	0.75	lb ai/a	21	DBP	A	25.34 ml/mx			
	NIS		L	0.25	% v/v	21	DBP	A	2.5 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	PRE	B		12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	4 If	C		12.15 ml/mx			
	Touchdown Total	4.17	L	0.75	lb ai/a	Layby	D		12.15 ml/mx			
22	Roundup WeatherMax	4.5	L	0.75	lb ai/a	21	DBP	A	11.26 ml/mx	122	220	314
	Weedar	4	L	0.25	lb ai/a	21	DBP	A	4.223 ml/mx			
	Sequence	5.25	L	1.67	lb ai/a	4	If	C	21.49 ml/mx			
	Roundup WeatherMax	4.5	L	0.75	lb ai/a	Layby	D		11.26 ml/mx			
	Direx	4	L	0.375	lb ai/a	Layby	D		6.334 ml/mx			

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Lot Code
865.770	ml	Touchdown Total 4.17 L	
52.782	ml	Clarity 4 L	
568.774	ml	A7813 2 L	
53.119	ml	NIS L	
134.317	ml	Sequence 5.25 L	
30.361	g	Suprend 80 WG	
24.997	ml	COC L	
110.841	ml	Caparol 4 L	
49.995	g	AMS 100 DG	
28.150	ml	Roundup WeatherMax 4.5 L	
5.278	ml	Weedar 4 L	
7.917	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: Evaluate several glyphosate and paraquat burndown programs followed by glyphosate in-crop programs.

Winter Weed Response:

Primrose:

1. At 14 days after burndown applications, all treatments provided excellent control except glyphosate alone, glyphosate plus AMS, glyphosate plus 2,4-D, and glyphosate plus Clarity. Poor control was noted with glyphosate + 2,4-D or Clarity because at the rating date there was not enough time allowed for these products to work.
2. A7813 alone provided excellent control as primrose was in the full bloom stage of growth.
3. Control was excellent with all programs after sequential burndown and PRE applications were made.

Red Sorrel:

1. All treatments provided excellent control.

# University of Georgia

**Cotton Injury:**

1. No herbicide treatment significantly injured cotton.

**Winter Wheat:**

1. All programs provided excellent control. Seedheads were emerged at time of application thus A7813 was as effective as glyphosate.

**Summer Weed Response:****Palmer Amaranth:**

- 1) At 21 days after the 4-leaf application, control was good with all programs. However, programs including metolachlor at 4-leaf tended to be more effective because of some residual weed control.
- 2) At 14 days after layby, treatments all programs provided near complete control.
- 3) All herbicide programs provided excellent control late in the season

**Large Crabgrass:**

- 1) At 21 days after the 4-leaf application, control was fair to good with all herbicide programs.
- 2) At 14 days after the layby, control was nearly complete with all herbicide programs.
- 3) Late-season control was good to excellent with all programs. Control tended to be greater in programs including residual herbicides as compared to those programs relying only on glyphosate.

**Florida Pusley:**

- 1) Late in the season the only programs providing greater than 84% control contained Sequence applied to 4-leaf cotton.

**GENERAL COMMENTS:**

1. The spring was cold and wet which negatively impacted plant stand to the point where yield would not be relevant at this location; thus, the trial was not harvested.

# University of Georgia

**Controlling winter and summer annual weeds in strip-till cotton.**

Trial ID: C9-05  
 Location: Jones Farm

Study Dir.: Culpepper  
 Investigator: Stanley Culpepper

Weed Code		OEOLA	RUMAA	TRZAW	GOSHI	GOSHI	GOSHI	AMAPA	AMAPA
Crop Code									
Rating Data Type		control	control	control	GOSHI	GOSHI	GOSHI	control	control
Rating Unit		percent	percent	percent	injury	injury	injury	percent	percent
Rating Date		Apr-19-05	Apr-19-05	Apr-19-05	May-05-05	Jun-09-05	Jul-11-05	Jun-09-05	Jul-11-05
Trt-Eval Interval		14 DA-A	14 DA-A	14 DA-A	30 DA-A	65 DA-A	97 DA-A	65 DA-A	97 DA-A
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate
		Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit
1	Non-treated								
2	Touchdown Total	0.75 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
3	Clarity	0.25 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
4	Clarity	0.25 lb ai/a							
	A7813	0.63 lb ai/a							
	NIS	0.25 % v/v							
	Touchdown Total	0.75 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
5	Clarity	0.25 lb ai/a							
	A7813	0.75 lb ai/a							
	NIS	0.25 % v/v							
	Touchdown Total	0.75 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
6	Clarity	0.25 lb ai/a							
	A7813	0.93 lb ai/a							
	NIS	0.25 % v/v							
	Touchdown Total	0.75 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
7	Clarity	0.25 lb ai/a							
	A7813	0.75 lb ai/a							
	NIS	0.25 % v/v							
	Sequence	1.67 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
8	Clarity	0.25 lb ai/a							
	A7813	0.93 lb ai/a							
	NIS	0.25 % v/v							
	Sequence	1.67 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
9	Clarity	0.25 lb ai/a							
	A7813	0.75 lb ai/a							
	NIS	0.25 % v/v							
	Touchdown Total	0.75 lb ai/a							
	Sequence	1.67 lb ai/a							
	Touchdown Total	0.75 lb ai/a							



## University of Georgia

Weed Code			OEOLA	RUMAA	TRZAW	GOSHI	GOSHI	GOSHI	AMAPA	AMAPA	
Crop Code											
Rating Data Type			control	control	control	injury	injury	injury	control	control	
Rating Unit			percent	percent	percent	percent	percent	percent	percent	percent	
Rating Date			Apr-19-05	Apr-19-05	Apr-19-05	May-05-05	Jun-09-05	Jul-11-05	Jun-09-05	Jul-11-05	
Trt-Eval Interval			14 DA-A	14 DA-A	14 DA-A	30 DA-A	65 DA-A	97 DA-A	65 DA-A	97 DA-A	
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7	8
18	Caparol	1.0	lb ai/a	96	99	99	0	0	0	80	99
	A7813	0.93	lb ai/a								
	NIS	0.25	% v/v								
	Touchdown Total	0.75	lb ai/a								
	Touchdown Total	0.75	lb ai/a								
	Touchdown Total	0.75	lb ai/a								
19	AMS	2	% w/v	68	99	99	0	0	0	85	99
	Touchdown Total	0.75	lb ai/a								
	Touchdown Total	0.75	lb ai/a								
	Touchdown Total	0.75	lb ai/a								
	Touchdown Total	0.75	lb ai/a								
20	A7813	0.75	lb ai/a	93	99	99	0	0	0	80	99
	NIS	0.25	% v/v								
	Touchdown Total	0.75	lb ai/a								
	Touchdown Total	0.75	lb ai/a								
	Touchdown Total	0.75	lb ai/a								
21	AMS	2	% w/v	89	99	99	0	0	0	88	99
	A7813	0.75	lb ai/a								
	NIS	0.25	% v/v								
	Touchdown Total	0.75	lb ai/a								
	Touchdown Total	0.75	lb ai/a								
	Touchdown Total	0.75	lb ai/a								
22	Roundup WeatherMax	0.75	lb ai/a	76	99	99	0	0	0	93	99
	Weedar	0.25	lb ai/a								
	Sequence	1.67	lb ai/a								
	Roundup WeatherMax	0.75	lb ai/a								
	Direx	0.375	lb ai/a								
LSD (P=.05)				8.5	0.0	1.1	0.0	0.0	0.7	8.3	0.0
Standard Deviation				5.1	0.0	0.7	0.0	0.0	0.4	5.1	0.0
CV				5.92	0.0	0.72	0.0	0.0	572.81	6.28	0.0

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

# University of Georgia

Weed Code			AMAPA	DIGSA	DIGSA	DIGSA	RCHSC	RCHSC	RCHSC	
Crop Code										
Rating Data Type			control	control	control	control	control	control	control	
Rating Unit			percent	percent	percent	percent	percent	percent	percent	
Rating Date			Sep-02-05	Jun-09-05	Jul-11-05	Sep-02-05	Jun-09-05	Jul-11-05	Sep-02-05	
Trt-Eval Interval			150 DA-A	65 DA-A	97 DA-A	150 DA-A	65 DA-A	97 DA-A	150 DA-A	
Trt No.	Treatment Name	Rate	Unit	9	10	11	12	13	14	15
1	Non-treated			0	0	0	0	0	0	0
2	Touchdown Total	0.75	lb ai/a	96	87	99	89	83	96	78
	Touchdown Total	0.75	lb ai/a							
	Touchdown Total	0.75	lb ai/a							
	Touchdown Total	0.75	lb ai/a							
3	Clarity	0.25	lb ai/a	99	83	99	96	80	92	73
	Touchdown Total	0.75	lb ai/a							
	Touchdown Total	0.75	lb ai/a							
	Touchdown Total	0.75	lb ai/a							
	Touchdown Total	0.75	lb ai/a							
4	Clarity	0.25	lb ai/a	89	80	99	88	82	91	78
	A7813	0.63	lb ai/a							
	NIS	0.25	% v/v							
	Touchdown Total	0.75	lb ai/a							
	Touchdown Total	0.75	lb ai/a							
	Touchdown Total	0.75	lb ai/a							
5	Clarity	0.25	lb ai/a	96	85	99	86	90	97	76
	A7813	0.75	lb ai/a							
	NIS	0.25	% v/v							
	Touchdown Total	0.75	lb ai/a							
	Touchdown Total	0.75	lb ai/a							
	Touchdown Total	0.75	lb ai/a							
6	Clarity	0.25	lb ai/a	92	80	99	90	87	84	75
	A7813	0.93	lb ai/a							
	NIS	0.25	% v/v							
	Touchdown Total	0.75	lb ai/a							
	Touchdown Total	0.75	lb ai/a							
	Touchdown Total	0.75	lb ai/a							
7	Clarity	0.25	lb ai/a	96	87	99	90	87	89	77
	A7813	0.75	lb ai/a							
	NIS	0.25	% v/v							
	Sequence	1.67	lb ai/a							
	Touchdown Total	0.75	lb ai/a							
	Touchdown Total	0.75	lb ai/a							
8	Clarity	0.25	lb ai/a	91	89	99	90	85	84	77
	A7813	0.93	lb ai/a							
	NIS	0.25	% v/v							
	Sequence	1.67	lb ai/a							
	Touchdown Total	0.75	lb ai/a							
	Touchdown Total	0.75	lb ai/a							
9	Clarity	0.25	lb ai/a	89	80	99	96	92	94	91
	A7813	0.75	lb ai/a							
	NIS	0.25	% v/v							
	Touchdown Total	0.75	lb ai/a							
	Sequence	1.67	lb ai/a							
	Touchdown Total	0.75	lb ai/a							
10	Clarity	0.25	lb ai/a	99	85	99	99	87	90	84
	A7813	0.93	lb ai/a							
	NIS	0.25	% v/v							
	Touchdown Total	0.75	lb ai/a							
	Sequence	1.67	lb ai/a							
	Touchdown Total	0.75	lb ai/a							



# University of Georgia

Weed Code			AMAPA	DIGSA	DIGSA	DIGSA	RCHSC	RCHSC	RCHSC
Crop Code									
Rating Data Type			control	control	control	control	control	control	control
Rating Unit			percent	percent	percent	percent	percent	percent	percent
Rating Date			Sep-02-05	Jun-09-05	Jul-11-05	Sep-02-05	Jun-09-05	Jul-11-05	Sep-02-05
Trt-Eval Interval			150 DA-A	65 DA-A	97 DA-A	150 DA-A	65 DA-A	97 DA-A	150 DA-A
Trt No.	Treatment Name	Rate	9	10	11	12	13	14	15
11	Clarity	0.25 lb ai/a	98	91	98	89	80	82	73
	A7813	0.75 lb ai/a							
	NIS	0.25 % v/v							
	Touchdown Total	0.75 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
	Suprend	1.2 lb ai/a							
	COC	1 % v/v							
12	Clarity	0.25 lb ai/a	95	87	99	95	90	88	80
	A7813	0.93 lb ai/a							
	NIS	0.25 % v/v							
	Touchdown Total	0.75 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
	Suprend	1.2 lb ai/a							
	COC	1 % v/v							
13	Caparol	0.75 lb ai/a	93	85	99	93	87	93	81
	A7813	0.63 lb ai/a							
	NIS	0.25 % v/v							
	Touchdown Total	0.75 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
14	Caparol	0.75 lb ai/a	99	83	99	94	88	98	80
	A7813	0.75 lb ai/a							
	NIS	0.25 % v/v							
	Touchdown Total	0.75 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
15	Caparol	0.75 lb ai/a	99	78	99	96	77	87	75
	A7813	0.93 lb ai/a							
	NIS	0.25 % v/v							
	Touchdown Total	0.75 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
16	Caparol	1.0 lb ai/a	96	85	99	89	85	92	79
	A7813	0.63 lb ai/a							
	NIS	0.25 % v/v							
	Touchdown Total	0.75 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
17	Caparol	1.0 lb ai/a	99	87	99	93	90	94	75
	A7813	0.75 lb ai/a							
	NIS	0.25 % v/v							
	Touchdown Total	0.75 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
18	Caparol	1.0 lb ai/a	97	90	99	99	80	96	83
	A7813	0.93 lb ai/a							
	NIS	0.25 % v/v							
	Touchdown Total	0.75 lb ai/a							
	Touchdown Total	0.75 lb ai/a							
	Touchdown Total	0.75 lb ai/a							

## University of Georgia

Weed Code		AMAPA	DIGSA	DIGSA	DIGSA	RCHSC	RCHSC	RCHSC		
Crop Code										
Rating Data Type		control	control	control	control	control	control	control		
Rating Unit		percent	percent	percent	percent	percent	percent	percent		
Rating Date		Sep-02-05	Jun-09-05	Jul-11-05	Sep-02-05	Jun-09-05	Jul-11-05	Sep-02-05		
Trt-Eval Interval		150 DA-A	65 DA-A	97 DA-A	150 DA-A	65 DA-A	97 DA-A	150 DA-A		
Trt No.	Treatment Name	Rate	Unit	9	10	11	12	13	14	15
19	AMS	2	% w/v	98	88	99	92	87	96	75
	Touchdown Total	0.75	lb ai/a							
	Touchdown Total	0.75	lb ai/a							
	Touchdown Total	0.75	lb ai/a							
	Touchdown Total	0.75	lb ai/a							
20	A7813	0.75	lb ai/a	98	83	99	83	77	85	70
	NIS	0.25	% v/v							
	Touchdown Total	0.75	lb ai/a							
	Touchdown Total	0.75	lb ai/a							
	Touchdown Total	0.75	lb ai/a							
21	AMS	2	% w/v	91	72	99	83	75	90	75
	A7813	0.75	lb ai/a							
	NIS	0.25	% v/v							
	Touchdown Total	0.75	lb ai/a							
	Touchdown Total	0.75	lb ai/a							
	Touchdown Total	0.75	lb ai/a							
22	Roundup WeatherMax	0.75	lb ai/a	99	79	99	99	85	90	91
	Weedar	0.25	lb ai/a							
	Sequence	1.67	lb ai/a							
	Roundup WeatherMax	0.75	lb ai/a							
	Direx	0.375	lb ai/a							
LSD (P=.05)				11.2	14.8	0.6	14.8	12.1	10.2	13.6
Standard Deviation				6.8	9.0	0.4	9.0	7.3	6.2	8.3
CV				7.45	11.2	0.39	10.21	9.09	7.1	11.04

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

# University of Georgia

**Controlling winter and summer annual weeds in strip-till cotton.**

Trial ID: C9-05 Study Dir.: Culpepper  
 Location: Jones Farm Investigator: Stanley Culpepper

**GENERAL TRIAL INFORMATION**

**Study Director:** Stanley Culpepper **Title:** Ext. Weed Science  
**Affiliation:** Univ. of Georgia  
**Postal Code:** 31794  
**Investigator:** Stanley Culpepper **Title:** Ext. Weed Science  
**Affiliation:** Univ. of Georgia  
**Postal Code:** 31794

**TRIAL LOCATION**

**City:** Tifton **Trial Status:** completed  
**State/Prov.:** GA **Trial Reliability:** fair  
**Postal Code:** 31793 **Initiation Date:** Apr-05-05  
**Country:** USA **Planned Completion Date:** \_\_\_\_\_  
**E-Longitude of LL Corner °:** \_\_\_\_\_ **N-Latitude of LL Corner °:** \_\_\_\_\_  
**Altitude of LL Corner:** \_\_\_\_\_ **Unit:** \_\_\_\_\_ **Angle y-axis to North °:** \_\_\_\_\_  
**Directions:**

**COOPERATOR/LANDOWNER**

**Cooperator:** \_\_\_\_\_ **Country:** \_\_\_\_\_  
**Org:** \_\_\_\_\_ **Phone No:** \_\_\_\_\_  
**Address 1:** \_\_\_\_\_ **Fax No:** \_\_\_\_\_  
**Address 2:** \_\_\_\_\_  
**City:** \_\_\_\_\_  
**State/Prov:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_

**Conducted Under GLP (Y/N):** N **Conducted Under GEP (Y/N):** N  
**Guidelines:** \_\_\_\_\_ **Guideline Description:** \_\_\_\_\_

**Objective:**

**Conclusions:**

**CROP AND WEED DESCRIPTION**

Weed	Code	Common Name	Scientific Name
1.	OEOLA	cutleaf eveningprimrose	
2.	RUMAA	red sorrel	
3.	TRZAW	winter wheat	
4.	AMAPA	Palmer amaranth	
5.	DIGSA	large crabgrass	
6.	RCHSC	Florida pusley	

**Crop 1:** GOSHI cotton **Variety:** DP 555 B/RR  
**Planting Date:** Apr-19-05 **Planting Method:** seeded  
**Rate:** 2 8 inch **Depth:** 0.5 in **Perennial Age:** \_\_\_\_\_  
**Row Spacing:** 36 inch **Spacing Within Row:** 2 8inch **Seed Bed:** flat  
**Soil Temperature:** 76 F **Soil Moisture:** fair **Emergence Date:** Apr-26-05

**SITE AND DESIGN**

**Plot Width, Unit:** 6 FT **Plot Length, Unit:** 25 FT **Reps:** 3  
**Site Type:** research station  
**Tillage Type:** strip tillage **Study Design:** RANDOMIZED COMPLETE BLOCK

**Trial Initiation Comments:**

# University of Georgia

	Previous Crops	Previous Pesticides	Year
1.			

### MAINTENANCE

Field Prep./Maintenance:

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

### SOIL DESCRIPTION

% Sand: 95	% OM: 0.67	Texture: sand	
% Silt: 2	pH: 5.8	Soil Name: Tifton sandy loam	
% Clay: 3	CEC: _____	Fert. Level: _____	

### ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

### MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: wet

Closest Weather Station: \_\_\_\_\_ Distance: \_\_\_\_\_ Unit: \_\_\_\_

### APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	Apr-05-05	Apr-19-05	May-19-05	Jun-27-05
Time of Day:	9 am	10 am	2 pm	6 pm
Application Method:	broadcast	broadcast	broadcast	broadcast
Application Timing:	burndown	PRE	4 lf	layby
Applic. Placement:	overtop	overtop	overtop	directed
Air Temp., Unit:	69 F	74 F	86 F	86 F
% Relative Humidity:	44	45	40	64
Wind Velocity, Unit:	0 mph	0 mph	0 mph	2 mph
Dew Presence (Y/N):	n	n	n	n
Water Hardness:				
Soil Temp., Unit:	62 F	76 F	98 F	92 F
Soil Moisture:	moist	fair	fair	fair
% Cloud Cover:	0	80	30	100

### CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	GOSHI burndown	GOSHI PRE	GOSHI 4-leaf	GOSHI layby
Stage Scale:	not up	not up	4 leaf	12 leaf
Height, Unit:	0 inch	0 inch	2.5 inch	18 inch

# University of Georgia

## WEED STAGE AT EACH APPLICATION

	A	B	C	D
<b>Weed 1 Code, Stage:</b>	OEOLA burndown	OEOLA PRE	OEOLA 4 lf	OEOLA layby
<b>Stage Scale:</b>	18inbloom	18inbloom	gone	gone
<b>Density, Unit:</b>	8 ydsq	8 ydsq	0 ydsq	0 ydsq
<b>Weed 2 Code, Stage:</b>	RUMAA burndown	RUMAA PRE	RUMAA 4 lf	RUMAA layby
<b>Stage Scale:</b>	20inbloom	20inbloom	gone	gone
<b>Density, Unit:</b>	4 ydsq	4 ydsq	0 ydsq	0 ydsq
<b>Weed 3 Code, Stage:</b>	TRZAW burndown	TRZAW PRE	TRZAW 4 lf	TRZAW layby
<b>Stage Scale:</b>	12in,head	12in,head	gone	gone
<b>Density, Unit:</b>	60 ydsq	60 ydsq	0 ydsq	0 ydsq
<b>Weed 4 Code, Stage:</b>	AMAPA burndown	AMAPA PRE	AMAPA 4 lf	AMAPA layby
<b>Stage Scale:</b>	not up	not up	< 5 inch	< 6 inch
<b>Density, Unit:</b>	0 ydsq	0 ydsq	12 ydsq	12 ydsq
<b>Weed 5 Code, Stage:</b>	DIGSA burndown	DIGSA PRE	DIGSA 4 lf	DIGSA layby
<b>Stage Scale:</b>	not up	not up	<4.5 inch	<2 inch
<b>Density, Unit:</b>	0 ydsq	0 ydsq	12 ydsq	12 ydsq
<b>Weed 6 Code, Stage:</b>	RCHSC burndown	RCHSC PRE	RCHSC 4 lf	RCHSC layby
<b>Stage Scale:</b>	not up	not up	< 2 inch	<2 inch
<b>Density, Unit:</b>	0 ydsq	0 ydsq	0 ydsq	0 ydsq

## APPLICATION EQUIPMENT

	A	B	C	D
<b>Appl. Equipment:</b>	backpack	backpack	backpack	backpack
<b>Operating Pressure:</b>	23	23	23	23
<b>Nozzle Type:</b>	flat fan	flat fan	flat fan	flat fan
<b>Nozzle Size:</b>	11002	11002	11002	11002
<b>Nozzle Spacing, Unit:</b>	18 inch	18 inch	18 inch	12 inch
<b>Nozzles/Row:</b>	2	2	2	3
<b>Band Width, Unit:</b>				
<b>Boom Length, Unit:</b>	4.5 feet	4.5 feet	4.5 feet	2 feet
<b>Boom Height, Unit:</b>	15 inch	15 inch	15 inch	12 inch
<b>Ground Speed, Unit:</b>	3 mph	3 mph	3 mph	3 mph
<b>Incorporation Equip.:</b>				
<b>Hours to Incorp.:</b>				
<b>Incorp. Depth, Unit:</b>				
<b>Carrier:</b>	water	water	water	water
<b>Spray Volume, Unit:</b>	14.8 GPA	14.8 GPA	14.8 GPA	14.8 GPA
<b>Spray pH:</b>				
<b>Propellant:</b>	CO2	CO2	CO2	CO2
<b>Tank Mix (Y/N):</b>	Y	Y	Y	Y

Trt No	Treatment Application Comment