

# University of Georgia

**Tropical spiderwort response to the most effective weed systems in cotton.**

Trial ID: C24-07

Study Dir.: Tim Flanders

Location: Berrien County

Investigator: Stanley Culpepper

Reps: 3

Plots: 9 by 22 feet

Spray vol: 14.8 gal/ac

Mix size: 1 liters (min .76396)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	Amt to Measure	Product	Plot No. By Rep		
											1	2	3
1	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	11.61	ml/mx	101	218	312
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	11.61	ml/mx			
2	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	11.61	ml/mx	102	224	311
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	11.61	ml/mx			
	Dual Magnum	7.62	L		8	OZ/A	layby	B	4.223	ml/mx			
3	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	11.61	ml/mx	103	217	310
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	11.61	ml/mx			
	Dual Magnum	7.62	L		12	OZ/A	layby	B	6.334	ml/mx			
4	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	11.61	ml/mx	104	223	309
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	11.61	ml/mx			
	Direx	4	L		1.5	PT/A	layby	B	12.67	ml/mx			
5	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	11.61	ml/mx	105	216	308
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	11.61	ml/mx			
	Direx	4	L		1.5	PT/A	layby	B	12.67	ml/mx			
	Dual Magnum	7.62	L		8	OZ/A	layby	B	4.223	ml/mx			
6	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	11.61	ml/mx	106	222	307
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	11.61	ml/mx			
	Direx	4	L		1.5	PT/A	layby	B	12.67	ml/mx			
	Dual Magnum	7.62	L		12	OZ/A	layby	B	6.334	ml/mx			
7	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	11.61	ml/mx	107	213	306
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	11.61	ml/mx			
	Valor	51	WDG		1	OZ/A	layby	B	0.506	g/mx			
8	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	11.61	ml/mx	108	221	305
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	11.61	ml/mx			
	Valor	51	WDG		1	OZ/A	layby	B	0.506	g/mx			
	Dual Magnum	7.62	L		8	OZ/A	layby	B	4.223	ml/mx			
9	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	11.61	ml/mx	109	214	304
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	11.61	ml/mx			
	Valor	51	WDG		1	OZ/A	layby	B	0.506	g/mx			
	Dual Magnum	7.62	L		12	OZ/A	layby	B	6.334	ml/mx			
10	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	11.61	ml/mx	110	220	303
	Direx	4	L		1	QT/A	layby	B	16.89	ml/mx			
	MSMA	6	L		2	LB A/A	layby	B	22.52	ml/mx			
11	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	11.61	ml/mx	111	215	302
	Direx	4	L		1	QT/A	layby	B	16.89	ml/mx			
	MSMA	6	L		2	LB A/A	layby	B	22.52	ml/mx			
	Dual Magnum	7.62	L		8	OZ/A	layby	B	4.223	ml/mx			
12	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	11.61	ml/mx	112	219	301
	Direx	4	L		1	QT/A	layby	B	16.89	ml/mx			
	MSMA	6	L		2	LB A/A	layby	B	22.52	ml/mx			
	Dual Magnum	7.62	L		12	OZ/A	layby	B	6.334	ml/mx			
13	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	11.61	ml/mx	113	212	336
	Dual Magnum	7.62	L		8	OZ/A	3	leaf A	4.223	ml/mx			
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	11.61	ml/mx			
14	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	11.61	ml/mx	114	211	331
	Dual Magnum	7.62	L		8	OZ/A	3	leaf A	4.223	ml/mx			
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	11.61	ml/mx			
	Dual Magnum	7.62	L		8	OZ/A	layby	B	4.223	ml/mx			

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Reps: 3

Plots: 9 by 22 feet

Spray vol: 14.8 gal/ac

Mix size: 1 liters (min .76396)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	Amt to Measure	Product	Plot No. By Rep		
											1	2	3
15	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf	A	11.61 ml/mx	115	210	334
	Dual Magnum	7.62	L		8	OZ/A	3	leaf	A	4.223 ml/mx			
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	11.61 ml/mx				
	Dual Magnum	7.62	L		12	OZ/A	layby	B	6.334 ml/mx				
16	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf	A	11.61 ml/mx	116	209	329
	Dual Magnum	7.62	L		8	OZ/A	3	leaf	A	4.223 ml/mx			
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	11.61 ml/mx				
	Direx	4	L		1.5	PT/A	layby	B	12.67 ml/mx				
17	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf	A	11.61 ml/mx	117	208	332
	Dual Magnum	7.62	L		8	OZ/A	3	leaf	A	4.223 ml/mx			
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	11.61 ml/mx				
	Direx	4	L		1.5	PT/A	layby	B	12.67 ml/mx				
18	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf	A	11.61 ml/mx	118	207	327
	Dual Magnum	7.62	L		8	OZ/A	3	leaf	A	4.223 ml/mx			
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	11.61 ml/mx				
	Direx	4	L		1.5	PT/A	layby	B	12.67 ml/mx				
19	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf	A	11.61 ml/mx	119	206	330
	Dual Magnum	7.62	L		8	OZ/A	3	leaf	A	4.223 ml/mx			
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	11.61 ml/mx				
	Valor	51	WDG		1	OZ/A	layby	B	0.506 g/mx				
20	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf	A	11.61 ml/mx	120	205	325
	Dual Magnum	7.62	L		8	OZ/A	3	leaf	A	4.223 ml/mx			
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	11.61 ml/mx				
	Valor	51	WDG		1	OZ/A	layby	B	0.506 g/mx				
21	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf	A	11.61 ml/mx	121	204	328
	Dual Magnum	7.62	L		8	OZ/A	3	leaf	A	4.223 ml/mx			
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	11.61 ml/mx				
	Valor	51	WDG		1	OZ/A	layby	B	0.506 g/mx				
22	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf	A	11.61 ml/mx	122	203	335
	Dual Magnum	7.62	L		8	OZ/A	3	leaf	A	4.223 ml/mx			
	Direx	4	L		1	QT/A	layby	B	16.89 ml/mx				
	MSMA	6	L		2	LB A/A	layby	B	22.52 ml/mx				
23	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf	A	11.61 ml/mx	123	202	326
	Dual Magnum	7.62	L		8	OZ/A	3	leaf	A	4.223 ml/mx			
	Direx	4	L		1	QT/A	layby	B	16.89 ml/mx				
	MSMA	6	L		2	LB A/A	layby	B	22.52 ml/mx				
24	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf	A	11.61 ml/mx	124	201	333
	Dual Magnum	7.62	L		8	OZ/A	3	leaf	A	4.223 ml/mx			
	Direx	4	L		1	QT/A	layby	B	16.89 ml/mx				
	MSMA	6	L		2	LB A/A	layby	B	22.52 ml/mx				
25	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf	A	11.61 ml/mx	125	236	313
	Dual Magnum	7.62	L		12	OZ/A	3	leaf	A	6.334 ml/mx			
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	11.61 ml/mx				
	Dual Magnum	7.62	L		8	OZ/A	layby	B	4.223 ml/mx				
26	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf	A	11.61 ml/mx	126	225	315
	Dual Magnum	7.62	L		12	OZ/A	3	leaf	A	6.334 ml/mx			
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	11.61 ml/mx				
	Dual Magnum	7.62	L		8	OZ/A	layby	B	4.223 ml/mx				

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Reps: 3                      Plots: 9 by 22 feet  
 Spray vol: 14.8 gal/ac                      Mix size: 1 liters (min .76396)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Grow Stg	Appl Code	Amt Product to Measure	Plot No. By Rep		
									1	2	3
27	Roundup WeatherMax	4.5	L		22 OZ/A	3 leaf	A	11.61 ml/mx	127	234	317
	Dual Magnum	7.62	L		12 OZ/A	3 leaf	A	6.334 ml/mx			
	Roundup WeatherMax	4.5	L		22 OZ/A	layby	B	11.61 ml/mx			
	Dual Magnum	7.62	L		12 OZ/A	layby	B	6.334 ml/mx			
28	Roundup WeatherMax	4.5	L		22 OZ/A	3 leaf	A	11.61 ml/mx	128	227	319
	Dual Magnum	7.62	L		12 OZ/A	3 leaf	A	6.334 ml/mx			
	Roundup WeatherMax	4.5	L		22 OZ/A	layby	B	11.61 ml/mx			
	Direx	4	L		1.5 PT/A	layby	B	12.67 ml/mx			
29	Roundup WeatherMax	4.5	L		22 OZ/A	3 leaf	A	11.61 ml/mx	129	232	321
	Dual Magnum	7.62	L		12 OZ/A	3 leaf	A	6.334 ml/mx			
	Roundup WeatherMax	4.5	L		22 OZ/A	layby	B	11.61 ml/mx			
	Direx	4	L		1.5 PT/A	layby	B	12.67 ml/mx			
	Dual Magnum	7.62	L		8 OZ/A	layby	B	4.223 ml/mx			
30	Roundup WeatherMax	4.5	L		22 OZ/A	3 leaf	A	11.61 ml/mx	130	229	323
	Dual Magnum	7.62	L		12 OZ/A	3 leaf	A	6.334 ml/mx			
	Roundup WeatherMax	4.5	L		22 OZ/A	layby	B	11.61 ml/mx			
	Direx	4	L		1.5 PT/A	layby	B	12.67 ml/mx			
	Dual Magnum	7.62	L		12 OZ/A	layby	B	6.334 ml/mx			
31	Roundup WeatherMax	4.5	L		22 OZ/A	3 leaf	A	11.61 ml/mx	131	230	314
	Dual Magnum	7.62	L		12 OZ/A	3 leaf	A	6.334 ml/mx			
	Roundup WeatherMax	4.5	L		22 OZ/A	layby	B	11.61 ml/mx			
	Valor	51	WDG		1 OZ/A	layby	B	0.506 g/mx			
32	Roundup WeatherMax	4.5	L		22 OZ/A	3 leaf	A	11.61 ml/mx	132	231	316
	Dual Magnum	7.62	L		12 OZ/A	3 leaf	A	6.334 ml/mx			
	Roundup WeatherMax	4.5	L		22 OZ/A	layby	B	11.61 ml/mx			
	Valor	51	WDG		1 OZ/A	layby	B	0.506 g/mx			
	Dual Magnum	7.62	L		8 OZ/A	layby	B	4.223 ml/mx			
33	Roundup WeatherMax	4.5	L		22 OZ/A	3 leaf	A	11.61 ml/mx	133	228	318
	Dual Magnum	7.62	L		12 OZ/A	3 leaf	A	6.334 ml/mx			
	Roundup WeatherMax	4.5	L		22 OZ/A	layby	B	11.61 ml/mx			
	Valor	51	WDG		1 OZ/A	layby	B	0.506 g/mx			
	Dual Magnum	7.62	L		12 OZ/A	layby	B	6.334 ml/mx			
34	Roundup WeatherMax	4.5	L		22 OZ/A	3 leaf	A	11.61 ml/mx	134	233	320
	Dual Magnum	7.62	L		12 OZ/A	3 leaf	A	6.334 ml/mx			
	Direx	4	L		1 QT/A	layby	B	16.89 ml/mx			
	MSMA	6	L		2 LB A/A	layby	B	22.52 ml/mx			
35	Roundup WeatherMax	4.5	L		22 OZ/A	3 leaf	A	11.61 ml/mx	135	226	322
	Dual Magnum	7.62	L		12 OZ/A	3 leaf	A	6.334 ml/mx			
	Direx	4	L		1 QT/A	layby	B	16.89 ml/mx			
	MSMA	6	L		2 LB A/A	layby	B	22.52 ml/mx			
	Dual Magnum	7.62	L		8 OZ/A	layby	B	4.223 ml/mx			
36	Roundup WeatherMax	4.5	L		22 OZ/A	3 leaf	A	11.61 ml/mx	136	235	324
	Dual Magnum	7.62	L		12 OZ/A	3 leaf	A	6.334 ml/mx			
	Direx	4	L		1 QT/A	layby	B	16.89 ml/mx			
	MSMA	6	L		2 LB A/A	layby	B	22.52 ml/mx			
	Dual Magnum	7.62	L		12 OZ/A	layby	B	6.334 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
914.539	ml	Roundup WeatherMax	4.5	L	
316.724	ml	Dual Magnum	7.62	L	

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Reps: 3                      Plots: 9 by 22 feet  
 Spray vol: 14.8 gal/ac              Mix size: 1 liters (min .76396)

Trt No.	Tr> N>	Form Conc	Form Unit	Form Type	Rate	Plot No. By Rep
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Product quantities required for listed treatments and applications in one trial:

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
332.524	ml	Direx	4	L	
5.693	g	Valor	51	WDG	
253.352	ml	MSMA	6	L	

\* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1 liters (mix size basis).  
 \* Product amount calculations increased 25 % for overage adjustment.

### Trial Comments

OBJECTIVE: Determine the most effective early POST and layby option for the control of tropical spiderwort.

Spiderwort Response:

1. When pooled over layby options at harvest, Dual at 8 oz/A mixed with Roundup improved control by 7% when compared to glyphosate alone. Increasing the rate of Dual Magnum from 8 to 12 oz/A further improved control another 3%.
2. When pooled over early POST options at harvest, 10 of the 12 layby options provided similar control. The least effective options included Roundup alone and Roundup plus Direx.
3. Numerically, the most effective option at layby was Roundup plus Dual plus Direx and Direx + MSMA + Dual.
4. Generally, the most effective option would include 12 oz of Dual Magnum early post with glyphosate followed by another 12 oz of Dual Magnum mixed with Direx + MSMA, Roundup + Direx, or Roundup + Valor.

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Tropical spiderwort response to the most effective weed systems in cotton.

Trial ID: C24-07

Study Dir.: Tim Flanders

Location: Berrien County

Investigator: Stanley Culpepper

Weed Code	COMBE cotton	COMBE cotton	COMBE cotton	COMBE cotton			
Crop Code							
Rating Data Type	%	%	%	%			
Rating Unit	control	control	control	control			
Rating Date	Jul-29-07	Aug-05-07	Aug-19-07	Oct-25-07			
Trt No.	Treatment Name	Rate	Unit	1	2	3	4
1	Roundup WeatherMax	22	OZ/A	40 b	67 e	73 d	72 i
	Roundup WeatherMax	22	OZ/A				
2	Roundup WeatherMax	22	OZ/A	57 b	70 de	81 c	86 a-h
	Roundup WeatherMax	22	OZ/A				
	Dual Magnum	8	OZ/A				
3	Roundup WeatherMax	22	OZ/A	57 b	70 de	86 bc	82 e-i
	Roundup WeatherMax	22	OZ/A				
	Dual Magnum	12	OZ/A				
4	Roundup WeatherMax	22	OZ/A	57 b	75 d	84 bc	77 hi
	Roundup WeatherMax	22	OZ/A				
	Direx	1.5	PT/A				
5	Roundup WeatherMax	22	OZ/A	57 b	88 c	94 a	83 c-i
	Roundup WeatherMax	22	OZ/A				
	Direx	1.5	PT/A				
	Dual Magnum	8	OZ/A				
6	Roundup WeatherMax	22	OZ/A	57 b	94 abc	98 a	91 a-g
	Roundup WeatherMax	22	OZ/A				
	Direx	1.5	PT/A				
	Dual Magnum	12	OZ/A				
7	Roundup WeatherMax	22	OZ/A	57 b	95 ab	91 ab	86 a-h
	Roundup WeatherMax	22	OZ/A				
	Valor	1	OZ/A				
8	Roundup WeatherMax	22	OZ/A	57 b	95 ab	96 a	83 c-i
	Roundup WeatherMax	22	OZ/A				
	Valor	1	OZ/A				
	Dual Magnum	8	OZ/A				
9	Roundup WeatherMax	22	OZ/A	57 b	94 abc	99 a	83 d-i
	Roundup WeatherMax	22	OZ/A				
	Valor	1	OZ/A				
	Dual Magnum	12	OZ/A				
10	Roundup WeatherMax	22	OZ/A	57 b	90 bc	97 a	84 b-i
	Direx	1	QT/A				
	MSMA	2	LB A/A				
11	Roundup WeatherMax	22	OZ/A	57 b	96 ab	94 a	81 ghi
	Direx	1	QT/A				
	MSMA	2	LB A/A				
	Dual Magnum	8	OZ/A				
12	Roundup WeatherMax	22	OZ/A	57 b	95 ab	97 a	88 a-h
	Direx	1	QT/A				
	MSMA	2	LB A/A				
	Dual Magnum	12	OZ/A				
13	Roundup WeatherMax	22	OZ/A	92 a	98 a	98 a	81 f-i
	Dual Magnum	8	OZ/A				
	Roundup WeatherMax	22	OZ/A				
14	Roundup WeatherMax	22	OZ/A	92 a	97 ab	99 a	93 a-g
	Dual Magnum	8	OZ/A				
	Roundup WeatherMax	22	OZ/A				
	Dual Magnum	8	OZ/A				

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Weed Code			COMBE	COMBE	COMBE	COMBE
Crop Code			cotton	cotton	cotton	cotton
Rating Data Type			%	%	%	%
Rating Unit			control	control	control	control
Rating Date			Jul-29-07	Aug-05-07	Aug-19-07	Oct-25-07
Trt No.	Treatment Name	Rate Unit	1	2	3	4
15	Roundup WeatherMax	22 OZ/A	92 a	98 a	99 a	93 a-g
	Dual Magnum	8 OZ/A				
	Roundup WeatherMax	22 OZ/A				
	Dual Magnum	12 OZ/A				
16	Roundup WeatherMax	22 OZ/A	92 a	97 a	96 a	83 d-i
	Dual Magnum	8 OZ/A				
	Roundup WeatherMax	22 OZ/A				
	Direx	1.5 PT/A				
17	Roundup WeatherMax	22 OZ/A	92 a	99 a	99 a	91 a-g
	Dual Magnum	8 OZ/A				
	Roundup WeatherMax	22 OZ/A				
	Direx	1.5 PT/A				
	Dual Magnum	8 OZ/A				
18	Roundup WeatherMax	22 OZ/A	92 a	99 a	99 a	95 abc
	Dual Magnum	8 OZ/A				
	Roundup WeatherMax	22 OZ/A				
	Direx	1.5 PT/A				
	Dual Magnum	12 OZ/A				
19	Roundup WeatherMax	22 OZ/A	92 a	97 a	99 a	90 a-g
	Dual Magnum	8 OZ/A				
	Roundup WeatherMax	22 OZ/A				
	Valor	1 OZ/A				
20	Roundup WeatherMax	22 OZ/A	92 a	99 a	99 a	92 a-g
	Dual Magnum	8 OZ/A				
	Roundup WeatherMax	22 OZ/A				
	Valor	1 OZ/A				
	Dual Magnum	8 OZ/A				
21	Roundup WeatherMax	22 OZ/A	92 a	99 a	99 a	91 a-g
	Dual Magnum	8 OZ/A				
	Roundup WeatherMax	22 OZ/A				
	Valor	1 OZ/A				
	Dual Magnum	12 OZ/A				
22	Roundup WeatherMax	22 OZ/A	92 a	94 abc	99 a	84 b-i
	Dual Magnum	8 OZ/A				
	Direx	1 QT/A				
	MSMA	2 LB A/A				
23	Roundup WeatherMax	22 OZ/A	92 a	98 a	99 a	91 a-g
	Dual Magnum	8 OZ/A				
	Direx	1 QT/A				
	MSMA	2 LB A/A				
	Dual Magnum	8 OZ/A				
24	Roundup WeatherMax	22 OZ/A	92 a	98 a	99 a	95 a-d
	Dual Magnum	8 OZ/A				
	Direx	1 QT/A				
	MSMA	2 LB A/A				
	Dual Magnum	12 OZ/A				
25	Roundup WeatherMax	22 OZ/A	96 a	98 a	97 a	84 b-i
	Dual Magnum	12 OZ/A				
	Roundup WeatherMax	22 OZ/A				

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Weed Code			COMBE	COMBE	COMBE	COMBE
Crop Code			cotton	cotton	cotton	cotton
Rating Data Type			%	%	%	%
Rating Unit			control	control	control	control
Rating Date			Jul-29-07	Aug-05-07	Aug-19-07	Oct-25-07
Trt No.	Treatment Name	Rate Rate Unit	1	2	3	4
26	Roundup WeatherMax	22 OZ/A	96 a	98 a	99 a	96 ab
	Dual Magnum	12 OZ/A				
	Roundup WeatherMax	22 OZ/A				
	Dual Magnum	8 OZ/A				
27	Roundup WeatherMax	22 OZ/A	96 a	96 ab	99 a	94 a-e
	Dual Magnum	12 OZ/A				
	Roundup WeatherMax	22 OZ/A				
	Dual Magnum	12 OZ/A				
28	Roundup WeatherMax	22 OZ/A	96 a	95 ab	98 a	88 a-h
	Dual Magnum	12 OZ/A				
	Roundup WeatherMax	22 OZ/A				
	Direx	1.5 PT/A				
29	Roundup WeatherMax	22 OZ/A	96 a	97 a	99 a	92 a-g
	Dual Magnum	12 OZ/A				
	Roundup WeatherMax	22 OZ/A				
	Direx	1.5 PT/A				
	Dual Magnum	8 OZ/A				
30	Roundup WeatherMax	22 OZ/A	96 a	99 a	99 a	98 a
	Dual Magnum	12 OZ/A				
	Roundup WeatherMax	22 OZ/A				
	Direx	1.5 PT/A				
	Dual Magnum	12 OZ/A				
31	Roundup WeatherMax	22 OZ/A	96 a	98 a	96 a	95 abc
	Dual Magnum	12 OZ/A				
	Roundup WeatherMax	22 OZ/A				
	Valor	1 OZ/A				
32	Roundup WeatherMax	22 OZ/A	96 a	99 a	99 a	93 a-f
	Dual Magnum	12 OZ/A				
	Roundup WeatherMax	22 OZ/A				
	Valor	1 OZ/A				
	Dual Magnum	8 OZ/A				
33	Roundup WeatherMax	22 OZ/A	96 a	98 a	99 a	94 a-e
	Dual Magnum	12 OZ/A				
	Roundup WeatherMax	22 OZ/A				
	Valor	1 OZ/A				
	Dual Magnum	12 OZ/A				
34	Roundup WeatherMax	22 OZ/A	96 a	98 a	99 a	92 a-g
	Dual Magnum	12 OZ/A				
	Direx	1 QT/A				
	MSMA	2 LB A/A				
35	Roundup WeatherMax	22 OZ/A	96 a	98 a	99 a	93 a-g
	Dual Magnum	12 OZ/A				
	Direx	1 QT/A				
	MSMA	2 LB A/A				
	Dual Magnum	8 OZ/A				

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Weed Code	COMBE	COMBE	COMBE	COMBE
Crop Code	cotton	cotton	cotton	cotton
Rating Data Type	%	%	%	%
Rating Unit	control	control	control	control
Rating Date	Jul-29-07	Aug-05-07	Aug-19-07	Oct-25-07
Trt No.	1	2	3	4
Treatment Name				
Rate				
Unit				
36 Roundup WeatherMax	22 OZ/A	96 a	98 a	99 a
Dual Magnum	12 OZ/A			95 abc
Direx	1 QT/A			
MSMA	2 LB A/A			
Dual Magnum	12 OZ/A			
LSD (P=.05)	23.3	5.8	7.2	10.1
Standard Deviation	14.3	3.6	4.4	6.2
CV	17.56	3.79	4.58	6.97
Bartlett's X2	110.762	51.216	26.162	21.372
P(Bartlett's X2)	0.001*	0.005*	0.036*	0.966

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





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

**SOIL DESCRIPTION**

% Sand: \_\_\_\_\_ % OM: 0.      Texture: \_\_\_\_\_  
 % Silt: \_\_\_\_\_ pH: 0.      Soil Name: \_\_\_\_\_  
 % Clay: \_\_\_\_\_ 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
Application Date:	Jul-06-07	Jul-29-07
Time of Day:	9 am	9:00 am
Application Method:	broadcast	broadcast
Application Timing:	POST	layby
Applic. Placement:	overtop	directed
Air Temp., Unit:	88 F	82 F
% Relative Humidity:	51	62
Wind Velocity, Unit:	3 mph	mph
Dew Presence (Y/N):	N	N
Water Hardness:		
Soil Temp., Unit:	90 F	84 F
Soil Moisture:	moist	moist
% Cloud Cover:	50	30

**CROP STAGE AT EACH APPLICATION**

	A	B
Crop 1 Code, Stage:	GOSHI 3 leaf	GOSHI layby
Stage Scale:	5 leaf	15 leaf
Height, Unit:	10 inch	22 inch

**WEED STAGE AT EACH APPLICATION**

	A	B
Weed 1 Code, Stage:	COMBE POST	COMBE layby
Stage Scale:	4 inch	<or= 5 in
Density, Unit:	3 ydsq	8 ydsq

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## APPLICATION EQUIPMENT

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

Trt No	Treatment Application Comment