

University of Georgia

Tropical spiderwort response to the most effective systems in cotton.

Trial ID: C33-06

Study Dir.: Tim Flanders

Location: Grady County

Investigator: Stanley Culpepper

Reps: 4

Plots: 12 by 25 feet

Spray vol: 14.8 gal/ac

Mix size: 2 liters (min 1.5434)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Unit	Grow Stg	Appl Code	Amt to Measure	Product	Plot No. By Rep			
											1	2	3	4
1	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	23.23	ml/mx	101	212	306	423
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	23.23	ml/mx				
2	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	23.23	ml/mx	102	233	325	430
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	23.23	ml/mx				
	Dual Magnum	7.62	L		8	OZ/A	layby	B	8.446	ml/mx				
3	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	23.23	ml/mx	103	215	329	405
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	23.23	ml/mx				
	Dual Magnum	7.62	L		12	OZ/A	layby	B	12.67	ml/mx				
4	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	23.23	ml/mx	104	222	311	402
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	23.23	ml/mx				
	Direx	4	L		1.5	PT/A	layby	B	25.34	ml/mx				
5	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	23.23	ml/mx	105	232	318	416
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	23.23	ml/mx				
	Direx	4	L		1.5	PT/A	layby	B	25.34	ml/mx				
	Dual Magnum	7.62	L		8	OZ/A	layby	B	8.446	ml/mx				
6	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	23.23	ml/mx	106	201	304	401
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	23.23	ml/mx				
	Direx	4	L		1.5	PT/A	layby	B	25.34	ml/mx				
	Dual Magnum	7.62	L		12	OZ/A	layby	B	12.67	ml/mx				
7	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	23.23	ml/mx	107	209	327	434
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	23.23	ml/mx				
	Valor	51	WDG		1	OZ/A	layby	B	1.012	g/mx				
8	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	23.23	ml/mx	108	219	334	417
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	23.23	ml/mx				
	Valor	51	WDG		1	OZ/A	layby	B	1.012	g/mx				
	Dual Magnum	7.62	L		8	OZ/A	layby	B	8.446	ml/mx				
9	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	23.23	ml/mx	109	236	319	414
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	23.23	ml/mx				
	Valor	51	WDG		1	OZ/A	layby	B	1.012	g/mx				
	Dual Magnum	7.62	L		12	OZ/A	layby	B	12.67	ml/mx				
10	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	23.23	ml/mx	110	205	323	432
	Direx	4	L		1	QT/A	layby	B	33.78	ml/mx				
	MSMA	6	L		2	LB A/A	layby	B	45.04	ml/mx				
11	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	23.23	ml/mx	111	225	314	415
	Direx	4	L		1	QT/A	layby	B	33.78	ml/mx				
	MSMA	6	L		2	LB A/A	layby	B	45.04	ml/mx				
	Dual Magnum	7.62	L		8	OZ/A	layby	B	8.446	ml/mx				
12	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	23.23	ml/mx	112	234	312	403
	Direx	4	L		1	QT/A	layby	B	33.78	ml/mx				
	MSMA	6	L		2	LB A/A	layby	B	45.04	ml/mx				
	Dual Magnum	7.62	L		12	OZ/A	layby	B	12.67	ml/mx				
13	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	23.23	ml/mx	113	227	336	425
	Dual Magnum	7.62	L		8	OZ/A	3	leaf A	8.446	ml/mx				
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	23.23	ml/mx				
14	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	23.23	ml/mx	114	228	301	421
	Dual Magnum	7.62	L		8	OZ/A	3	leaf A	8.446	ml/mx				
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	23.23	ml/mx				
	Dual Magnum	7.62	L		8	OZ/A	layby	B	8.446	ml/mx				

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Reps: 4

Plots: 12 by 25 feet

Spray vol: 14.8 gal/ac

Mix size: 2 liters (min 1.5434)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No. By Rep			
										1	2	3	4
15	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	23.23 ml/mx	115	221	316	407
	Dual Magnum	7.62	L		8	OZ/A	3	leaf A	8.446 ml/mx				
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	23.23 ml/mx				
	Dual Magnum	7.62	L		12	OZ/A	layby	B	12.67 ml/mx				
16	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	23.23 ml/mx	116	211	326	419
	Dual Magnum	7.62	L		8	OZ/A	3	leaf A	8.446 ml/mx				
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	23.23 ml/mx				
	Direx	4	L		1.5	PT/A	layby	B	25.34 ml/mx				
17	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	23.23 ml/mx	117	226	310	428
	Dual Magnum	7.62	L		8	OZ/A	3	leaf A	8.446 ml/mx				
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	23.23 ml/mx				
	Direx	4	L		1.5	PT/A	layby	B	25.34 ml/mx				
18	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	23.23 ml/mx	118	213	333	411
	Dual Magnum	7.62	L		8	OZ/A	3	leaf A	8.446 ml/mx				
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	23.23 ml/mx				
	Direx	4	L		1.5	PT/A	layby	B	25.34 ml/mx				
19	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	23.23 ml/mx	119	217	324	412
	Dual Magnum	7.62	L		8	OZ/A	3	leaf A	8.446 ml/mx				
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	23.23 ml/mx				
	Valor	51	WDG		1	OZ/A	layby	B	1.012 g/mx				
20	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	23.23 ml/mx	120	235	315	429
	Dual Magnum	7.62	L		8	OZ/A	3	leaf A	8.446 ml/mx				
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	23.23 ml/mx				
	Valor	51	WDG		1	OZ/A	layby	B	1.012 g/mx				
21	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	23.23 ml/mx	121	218	322	408
	Dual Magnum	7.62	L		8	OZ/A	3	leaf A	8.446 ml/mx				
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	23.23 ml/mx				
	Valor	51	WDG		1	OZ/A	layby	B	1.012 g/mx				
22	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	23.23 ml/mx	122	208	330	436
	Dual Magnum	7.62	L		8	OZ/A	3	leaf A	8.446 ml/mx				
	Direx	4	L		1	QT/A	layby	B	33.78 ml/mx				
	MSMA	6	L		2	LB A/A	layby	B	45.04 ml/mx				
23	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	23.23 ml/mx	123	220	317	435
	Dual Magnum	7.62	L		8	OZ/A	3	leaf A	8.446 ml/mx				
	Direx	4	L		1	QT/A	layby	B	33.78 ml/mx				
	MSMA	6	L		2	LB A/A	layby	B	45.04 ml/mx				
24	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	23.23 ml/mx	124	231	303	409
	Dual Magnum	7.62	L		8	OZ/A	3	leaf A	8.446 ml/mx				
	Direx	4	L		1	QT/A	layby	B	33.78 ml/mx				
	MSMA	6	L		2	LB A/A	layby	B	45.04 ml/mx				
25	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	23.23 ml/mx	125	214	313	431
	Dual Magnum	7.62	L		12	OZ/A	3	leaf A	12.67 ml/mx				
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	23.23 ml/mx				
	Dual Magnum	7.62	L		8	OZ/A	layby	B	8.446 ml/mx				
26	Roundup WeatherMax	4.5	L		22	OZ/A	3	leaf A	23.23 ml/mx	126	230	308	433
	Dual Magnum	7.62	L		12	OZ/A	3	leaf A	12.67 ml/mx				
	Roundup WeatherMax	4.5	L		22	OZ/A	layby	B	23.23 ml/mx				
	Dual Magnum	7.62	L		8	OZ/A	layby	B	8.446 ml/mx				

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Reps: 4 Plots: 12 by 25 feet
 Spray vol: 14.8 gal/ac Mix size: 2 liters (min 1.5434)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Grow Unit	Appl Stg	Appl Code	Amt Product to Measure	Plot No. By Rep			
										1	2	3	4
27	Roundup WeatherMax	4.5	L		22 OZ/A	3 leaf	A		23.23 ml/mx	127	210	307	418
	Dual Magnum	7.62	L		12 OZ/A	3 leaf	A		12.67 ml/mx				
	Roundup WeatherMax	4.5	L		22 OZ/A	layby	B		23.23 ml/mx				
	Dual Magnum	7.62	L		12 OZ/A	layby	B		12.67 ml/mx				
28	Roundup WeatherMax	4.5	L		22 OZ/A	3 leaf	A		23.23 ml/mx	128	207	321	404
	Dual Magnum	7.62	L		12 OZ/A	3 leaf	A		12.67 ml/mx				
	Roundup WeatherMax	4.5	L		22 OZ/A	layby	B		23.23 ml/mx				
	Direx	4	L		1.5 PT/A	layby	B		25.34 ml/mx				
29	Roundup WeatherMax	4.5	L		22 OZ/A	3 leaf	A		23.23 ml/mx	129	204	305	427
	Dual Magnum	7.62	L		12 OZ/A	3 leaf	A		12.67 ml/mx				
	Roundup WeatherMax	4.5	L		22 OZ/A	layby	B		23.23 ml/mx				
	Direx	4	L		1.5 PT/A	layby	B		25.34 ml/mx				
30	Dual Magnum	7.62	L		8 OZ/A	layby	B		8.446 ml/mx				
	Roundup WeatherMax	4.5	L		22 OZ/A	3 leaf	A		23.23 ml/mx	130	229	302	424
	Dual Magnum	7.62	L		12 OZ/A	3 leaf	A		12.67 ml/mx				
	Roundup WeatherMax	4.5	L		22 OZ/A	layby	B		23.23 ml/mx				
31	Direx	4	L		1.5 PT/A	layby	B		25.34 ml/mx				
	Dual Magnum	7.62	L		12 OZ/A	layby	B		12.67 ml/mx	131	206	331	422
	Roundup WeatherMax	4.5	L		22 OZ/A	layby	B		23.23 ml/mx				
	Valor	51	WDG		1 OZ/A	layby	B		1.012 g/mx				
32	Roundup WeatherMax	4.5	L		22 OZ/A	3 leaf	A		23.23 ml/mx	132	202	332	406
	Dual Magnum	7.62	L		12 OZ/A	3 leaf	A		12.67 ml/mx				
	Roundup WeatherMax	4.5	L		22 OZ/A	layby	B		23.23 ml/mx				
	Valor	51	WDG		1 OZ/A	layby	B		1.012 g/mx				
33	Dual Magnum	7.62	L		8 OZ/A	layby	B		8.446 ml/mx				
	Roundup WeatherMax	4.5	L		22 OZ/A	3 leaf	A		23.23 ml/mx	133	223	335	410
	Dual Magnum	7.62	L		12 OZ/A	3 leaf	A		12.67 ml/mx				
	Roundup WeatherMax	4.5	L		22 OZ/A	layby	B		23.23 ml/mx				
34	Valor	51	WDG		1 OZ/A	layby	B		1.012 g/mx				
	Dual Magnum	7.62	L		12 OZ/A	layby	B		12.67 ml/mx				
	Roundup WeatherMax	4.5	L		22 OZ/A	3 leaf	A		23.23 ml/mx	134	203	320	426
	Dual Magnum	7.62	L		12 OZ/A	3 leaf	A		12.67 ml/mx				
35	Direx	4	L		1 QT/A	layby	B		33.78 ml/mx				
	MSMA	6	L		2 LB A/A	layby	B		45.04 ml/mx				
	Roundup WeatherMax	4.5	L		22 OZ/A	3 leaf	A		23.23 ml/mx	135	216	328	413
	Dual Magnum	7.62	L		12 OZ/A	3 leaf	A		12.67 ml/mx				
36	Direx	4	L		1 QT/A	layby	B		33.78 ml/mx				
	MSMA	6	L		2 LB A/A	layby	B		45.04 ml/mx				
	Roundup WeatherMax	4.5	L		22 OZ/A	3 leaf	A		23.23 ml/mx	136	224	309	420
	Dual Magnum	7.62	L		12 OZ/A	3 leaf	A		12.67 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
1,829.078	ml	Roundup WeatherMax	4.5	L	
633.447	ml	Dual Magnum	7.62	L	

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Reps: 4 Plots: 12 by 25 feet
 Spray vol: 14.8 gal/ac Mix size: 2 liters (min 1.5434)

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
665.048	ml	Direx	4	L	
11.386	g	Valor	51	WDG	
506.703	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: Develop the most effective tropical spiderwort weed management system in cotton.

COTTON RESPONSE:

1. Topical 3 leaf applications caused little to no injury.
2. Layby treatments were applied aggressively. Main effect means were significant and when pooled over topical options, Roundup + Valor + Dual (12 oz) was the most injurious option followed by Roundup plus Valor followed by Direx + MSMA + Dual and Roundup + Direx + Dual.
3. Cotton recovered quickly from layby applications.

TROPICAL SPIDERWORT RESPONSE:

1. At 30 days after 3 leaf applications and just prior to layby treatments, main effect means were significant noting that mixing 8 oz or 12 oz of Dual in with glyphosate improved control 14% compared to glyphosate alone when pooled over layby options.
2. At 41 d after layby, control was the least with sequential glyphosate applications, glyphosate POST fb glyphosate plus Dual Magnum at 8 or 12 oz, and with glyphosate followed by Direx plus MSMA.
3. At harvest, greater than 90% control was note with 5 systems:
 - A. Roundup POST fb Roundup + Valor + Dual 12 oz
 - B. Roundup + Dual 8 oz fb Roundup + Dual 8 oz + Direx
 - C. Roundup + Dual 12 oz fb Roundup + Dual 12 oz
 - D. Roundup + Dual 12 oz fb Direx + MSMA + Dual 8 oz
 - E. Roundup + Dual 12 oz fb Direx + MSMA + Dual 12 oz
4. At harvest 85 to 90% control was noted with six systems:
 - A. Roundup + Dual 8 oz fb Direx + MSMA + Dual 8 oz
 - B. Roundup + Dual 8 oz fb Direx + MSMA + Dual 12 oz
 - C. Roundup + Dual 8 oz fb Roundup + Dual 8 oz
 - D. Roundup + Dual 8 oz fb Roundup + Dual 12 oz
 - E. Roundup + Dual 12 oz fb Roundup + Valor + Dual 8 oz
 - F. Roundup + Dual 12 oz fb Roundup + Valor + Dual 12 oz

COTTON YIELD:

1. As expected with excellent early seacon weed control, yields were similar among all systems.

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Weed Code			GOSHI	GOSHI	GOSHI	GOSHI	COMBE	COMBE	COMBE	COMBE
Crop Code			GOSHI	GOSHI	GOSHI	GOSHI	COMBE	COMBE	COMBE	COMBE
Rating Data Type			injury	injury	injury	injury	control	control	control	control
Rating Unit			%	%	%	%	%	%	%	%
Rating Date			May-30-06	Jun-06-06	Jun-30-06	Jul-06-06	May-30-06	Jun-06-06	Jun-21-06	Jul-06-06
Assessed By			SC	SC	SC	SC	SC	SC	SC	SC
Trt-Eval Interval			8 DA-A	15 DA-A	39 DA-A	45 DA-A	8 DA-A	15 DA-A	30 DA-A	14 DA-B
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate Rate Unit	1	2	3	4	5	6	7	8
35	Roundup WeatherMax	22 OZ/A	0 b	0 a	8 h-l	0 a	92 abc	97 a	97 ab	99 a
	Dual Magnum	12 OZ/A								
	Direx	1 QT/A								
	MSMA	2 LB A/A								
	Dual Magnum	8 OZ/A								
36	Roundup WeatherMax	22 OZ/A	0 b	0 a	10 e-k	0 a	86 bc	86 ab	93 ab	98 a
	Dual Magnum	12 OZ/A								
	Direx	1 QT/A								
	MSMA	2 LB A/A								
	Dual Magnum	12 OZ/A								
LSD (P=.05)			0.4	0.0	5.3	0.0	8.8	9.0	15.4	5.3
Standard Deviation			0.3	0.0	3.8	0.0	6.3	6.4	11.0	3.8
CV			1200.0	0.0	39.98	0.0	6.82	7.1	12.27	3.96
Bartlett's X2			0.0	0.0	39.388	0.0	31.601	44.658	130.921	119.902
P(Bartlett's X2)			.	.	0.173	.	0.586	0.127	0.001*	0.001*

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

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Weed Code			COMBE	COMBE	harvest	harvest
Crop Code					GOSHI	GOSHI
Rating Data Type			control	control	wt	YIELD
Rating Unit			%	%	lb/plot	LB/A
Rating Date			Aug-02-06	Sep-14-06	Oct-24-06	Oct-24-06
Assessed By			AD	AD		
Trt-Eval Interval			41 DA-B	84 DA-B	124 DA-B	155 DA-A
ARM Action Codes						TY1
# Subsamples, Dec.						1
Trt No.	Treatment Name	Rate Unit	9	10	11	12
1	Roundup WeatherMax	22 OZ/A	88 d	46 m	6 a-d	1838.2 a-d
	Roundup WeatherMax	22 OZ/A				
2	Roundup WeatherMax	22 OZ/A	93 c	63 jkl	7 a-d	1929.7 a-d
	Roundup WeatherMax	22 OZ/A				
	Dual Magnum	8 OZ/A				
3	Roundup WeatherMax	22 OZ/A	95 abc	78 c-i	7 ab	1992.1 ab
	Roundup WeatherMax	22 OZ/A				
	Dual Magnum	12 OZ/A				
4	Roundup WeatherMax	22 OZ/A	96 abc	57 klm	7 abc	1947.1 abc
	Roundup WeatherMax	22 OZ/A				
	Direx	1.5 PT/A				
5	Roundup WeatherMax	22 OZ/A	99 a	76 e-i	6 a-d	1745.3 a-d
	Roundup WeatherMax	22 OZ/A				
	Direx	1.5 PT/A				
	Dual Magnum	8 OZ/A				
6	Roundup WeatherMax	22 OZ/A	99 a	83 a-h	6 a-d	1677.1 a-d
	Roundup WeatherMax	22 OZ/A				
	Direx	1.5 PT/A				
	Dual Magnum	12 OZ/A				
7	Roundup WeatherMax	22 OZ/A	99 a	81 a-h	5 cd	1479.6 cd
	Roundup WeatherMax	22 OZ/A				
	Valor	1 OZ/A				
8	Roundup WeatherMax	22 OZ/A	99 a	80 b-h	6 a-d	1636.4 a-d
	Roundup WeatherMax	22 OZ/A				
	Valor	1 OZ/A				
	Dual Magnum	8 OZ/A				
9	Roundup WeatherMax	22 OZ/A	99 a	93 ab	6 a-d	1626.2 a-d
	Roundup WeatherMax	22 OZ/A				
	Valor	1 OZ/A				
	Dual Magnum	12 OZ/A				
10	Roundup WeatherMax	22 OZ/A	94 bc	53 lm	6 a-d	1739.5 a-d
	Direx	1 QT/A				
	MSMA	2 LB A/A				
11	Roundup WeatherMax	22 OZ/A	99 a	80 b-h	6 a-d	1723.5 a-d
	Direx	1 QT/A				
	MSMA	2 LB A/A				
	Dual Magnum	8 OZ/A				
12	Roundup WeatherMax	22 OZ/A	99 a	84 a-h	5 a-d	1587.0 a-d
	Direx	1 QT/A				
	MSMA	2 LB A/A				
	Dual Magnum	12 OZ/A				
13	Roundup WeatherMax	22 OZ/A	99 a	76 f-i	6 a-d	1751.1 a-d
	Dual Magnum	8 OZ/A				
	Roundup WeatherMax	22 OZ/A				
14	Roundup WeatherMax	22 OZ/A	99 a	89 a-f	5 bcd	1543.5 bcd
	Dual Magnum	8 OZ/A				
	Roundup WeatherMax	22 OZ/A				
	Dual Magnum	8 OZ/A				

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Weed Code			COMBE	COMBE	harvest	harvest
Crop Code					GOSHI	GOSHI
Rating Data Type			control	control	wt	YIELD
Rating Unit			%	%	lb/plot	LB/A
Rating Date			Aug-02-06	Sep-14-06	Oct-24-06	Oct-24-06
Assessed By			AD	AD		
Trt-Eval Interval			41 DA-B	84 DA-B	124 DA-B	155 DA-A
ARM Action Codes						TY1
# Subsamples, Dec.						1
Trt No.	Treatment Name	Rate Unit	9	10	11	12
15	Roundup WeatherMax	22 OZ/A	99 a	89 a-g	7 a-d	1894.9 a-d
	Dual Magnum	8 OZ/A				
	Roundup WeatherMax	22 OZ/A				
	Dual Magnum	12 OZ/A				
16	Roundup WeatherMax	22 OZ/A	98 ab	81 a-h	6 a-d	1806.3 a-d
	Dual Magnum	8 OZ/A				
	Roundup WeatherMax	22 OZ/A				
	Direx	1.5 PT/A				
17	Roundup WeatherMax	22 OZ/A	99 a	92 abc	6 a-d	1649.5 a-d
	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	99 a	82 a-h	6 a-d	1854.2 a-d
	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	98 ab	79 b-i	6 a-d	1629.1 a-d
	Dual Magnum	8 OZ/A				
	Roundup WeatherMax	22 OZ/A				
	Valor	1 OZ/A				
20	Roundup WeatherMax	22 OZ/A	99 a	77 d-i	6 a-d	1878.9 a-d
	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	99 a	81 a-h	7 a	2066.2 a
	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	99 a	74 g-j	7 a-d	1922.4 a-d
	Dual Magnum	8 OZ/A				
	Direx	1 QT/A				
	MSMA	2 LB A/A				
23	Roundup WeatherMax	22 OZ/A	99 a	88 a-h	6 a-d	1835.3 a-d
	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	99 a	88 a-h	5 d	1441.8 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	95 abc	66 ijk	6 a-d	1665.4 a-d
	Dual Magnum	12 OZ/A				
	Roundup WeatherMax	22 OZ/A				

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Weed Code			COMBE	COMBE	harvest	harvest
Crop Code					GOSHI	GOSHI
Rating Data Type			control	control	wt	YIELD
Rating Unit			%	%	lb/plot	LB/A
Rating Date			Aug-02-06	Sep-14-06	Oct-24-06	Oct-24-06
Assessed By			AD	AD		
Trt-Eval Interval			41 DA-B	84 DA-B	124 DA-B	155 DA-A
ARM Action Codes						TY1
# Subsamples, Dec.						1
Trt No.	Treatment Name	Rate Unit	9	10	11	12
26	Roundup WeatherMax	22 OZ/A	98 ab	81 a-h	6 a-d	1632.0 a-d
	Dual Magnum	12 OZ/A				
	Roundup WeatherMax	22 OZ/A				
	Dual Magnum	8 OZ/A				
27	Roundup WeatherMax	22 OZ/A	99 a	91 a-d	6 a-d	1746.8 a-d
	Dual Magnum	12 OZ/A				
	Roundup WeatherMax	22 OZ/A				
	Dual Magnum	12 OZ/A				
28	Roundup WeatherMax	22 OZ/A	99 a	77 d-i	5 bcd	1537.7 bcd
	Dual Magnum	12 OZ/A				
	Roundup WeatherMax	22 OZ/A				
	Direx	1.5 PT/A				
29	Roundup WeatherMax	22 OZ/A	99 a	85 a-h	6 a-d	1767.1 a-d
	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	99 a	80 b-i	6 a-d	1823.7 a-d
	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	99 a	73 hij	6 a-d	1607.4 a-d
	Dual Magnum	12 OZ/A				
	Roundup WeatherMax	22 OZ/A				
	Valor	1 OZ/A				
32	Roundup WeatherMax	22 OZ/A	99 a	85 a-h	6 a-d	1640.8 a-d
	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	99 a	89 a-f	6 a-d	1632.0 a-d
	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	99 a	80 b-h	6 a-d	1671.3 a-d
	Dual Magnum	12 OZ/A				
	Direx	1 QT/A				
	MSMA	2 LB A/A				
35	Roundup WeatherMax	22 OZ/A	99 a	95 a	5 a-d	1595.7 a-d
	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	harvest	harvest
Crop Code			GOSHI	GOSHI
Rating Data Type	control	control	wt	YIELD
Rating Unit	%	%	lb/plot	LB/A
Rating Date	Aug-02-06	Sep-14-06	Oct-24-06	Oct-24-06
Assessed By	AD	AD		
Trt-Eval Interval	41 DA-B	84 DA-B	124 DA-B	155 DA-A
ARM Action Codes				TY1
# Subsamples, Dec.				1
Trt Treatment				
No. Name	Rate			
	Unit	9	10	11
36 Roundup WeatherMax	22 OZ/A	99 a	91 a-e	6 a-d
Dual Magnum	12 OZ/A			1754.0 a-d
Direx	1 QT/A			
MSMA	2 LB A/A			
Dual Magnum	12 OZ/A			
LSD (P=.05)	3.6	11.9	1.3	387.78
Standard Deviation	2.6	8.5	1.0	276.97
CV	2.65	10.69	16.01	16.01
Bartlett's X2	58.37	68.597	45.032	45.033
P(Bartlett's X2)	0.001*	0.001*	0.119	0.119

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

Column 12: TY1 = 290.4*[C11]

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

SOIL DESCRIPTION

% Sand: 80 % OM: 2.1 Texture: Loamy sand
 % Silt: 12 pH: 5.9 Soil Name: _____
 % Clay: 8 CEC: _____ Fert. Level: _____

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

No.	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: irrigated

Closest Weather Station: _____ Distance: _____ Unit: __

APPLICATION DESCRIPTION

	A	B
Application Date:	May-22-06	Jun-22-06
Time of Day:	9 am	10:30 am
Application Method:	broadcast	broadcast
Application Timing:	3 leaf	layby
Applic. Placement:	overtop	directed
Air Temp., Unit:	78 F	92 F
% Relative Humidity:	70	59
Wind Velocity, Unit:	5 mph	3 mph
Dew Presence (Y/N):	n	
Water Hardness:		
Soil Temp., Unit:	79 F	92 F
Soil Moisture:	fair	moist
% Cloud Cover:	0	10

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	GOSHI 3 leaf	GOSHI layby
Stage Scale:	2-3 leaf	14 leaf
Height, Unit:	3 inch	18 inch

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	COMBE 3 leaf	COMBE layby
Stage Scale:	1-2 inch	2-6 inch
Density, Unit:	100 ydsq	100 ydsq

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APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	backpack	backpack
Operating Pressure:	24	18
Nozzle Type:	flat fan	floodjet
Nozzle Size:	11002	TK2
Nozzle Spacing, Unit:	18 in	36 in
Nozzles/Row:	2	3
Band Width, Unit:		
Boom Length, Unit:	4.5 ft	4.5 ft
Boom Height, Unit:	15 in	10 in
Ground Speed, Unit:	3 mph	3 mph
Incorporation Equip.:		
Hours to Incorp.:		
Incorp. Depth, Unit:		
Carrier:	water	water
Spray Volume, Unit:	14.8 GPA	14.8 GPA
Spray pH:		
Propellant:	CO2	CO2
Tank Mix (Y/N):	y	y

Trt No	Treatment Application Comment