## **University of Georgia**

	Tropical spiderwort response to Dual Magnum systems.											
Tri	al ID: C43-06					St	udy D	ir.: S	Stanley Cul	peppe	r	
	ation: Sunbelt	Expc	)						Stanley Cul			
Rep	s: 3	Plo	ots: 12	by 22	feet							
Spra	ay vol: 14.8 gal/ac		Mix	size: 1	.5 liter	s (min	1.018	6)				
	Treatment			Form			Grow		Amt Product		-	Rep
	Name	Conc	Unit		Rate				to Measure	1	2	3
1	Roundup WMAX	4.5		L			POST		17.42 ml/mx		203	305
	Roundup WMAX	4.5		L			PDIR		17.42 ml/mx			
	Direx	4		L			PDIR		19.0 ml/mx	400	000	000
2	Roundup WMAX	4.5		L			POST		17.42 ml/mx		208	306
	Roundup WMAX Direx	4.5 4		L			PDIR PDIR		17.42 ml/mx 19.0 ml/mx			
	Dual Magnum	7.62		L			PDIR		6.334 ml/mx			
3	Roundup WMAX	4.5					POST		17.42 ml/mx		207	303
5	Roundup WMAX	4.5		L			PDIR		17.42 ml/mx		201	000
	Direx	4		L			PDIR		19.0 ml/mx			
	Dual Magnum	7.62		L			PDIR		9.502 ml/mx			
4	Roundup WMAX	4.5		L	22	OZ/A	POST	A	17.42 ml/mx	104	201	309
	Dual Magnum	7.62		L	8	OZ/A	POST	A	6.334 ml/mx			
	Roundup WMAX	4.5		L	22	OZ/A	PDIR	В	17.42 ml/mx			
	Direx	4		L	1.5	PT/A	PDIR	В	19.0 ml/mx			
5	Roundup WMAX	4.5		L	22	OZ/A	POST	A	17.42 ml/mx	105	206	308
	Dual Magnum	7.62		L	-		POST		6.334 ml/mx			
	Roundup WMAX	4.5		L			PDIR		17.42 ml/mx			
	Direx	4		L	-		PDIR		19.0 ml/mx			
0	Dual Magnum	7.62		<u> </u>			PDIR		6.334 ml/mx		000	000
6	Roundup WMAX	4.5 7.62		L			POST POST		17.42 ml/mx 6.334 ml/mx		209	302
	Dual Magnum Roundup WMAX	4.5		L L	-		PDIR		17.42 ml/mx			
	Direx	4.5 4		L			PDIR		19.0 ml/mx			
	Dual Magnum	7.62		L			PDIR		9.502 ml/mx			
7	Roundup WMAX	4.5		L			POST		17.42 ml/mx		205	307
	Dual Magnum	7.62		L			POST		9.502 ml/mx			- • •
	Roundup WMAX	4.5		L			PDIR		17.42 ml/mx			
	Direx	4		L	1.5	PT/A	PDIR	В	19.0 ml/mx			
8	Roundup WMAX	4.5		L	22	OZ/A	POST	А	17.42 ml/mx	108	204	301
	Dual Magnum	7.62		L	12	OZ/A	POST	A	9.502 ml/mx			
	Roundup WMAX	4.5		L			PDIR		17.42 ml/mx			
	Direx	4		L			PDIR		19.0 ml/mx			
	Dual Magnum	7.62		L			PDIR		6.334 ml/mx			
9	Roundup WMAX	4.5		L			POST		17.42 ml/mx		202	304
	Dual Magnum	7.62		L			POST PDIR		9.502 ml/mx			
	Roundup WMAX Direx	4.5 4		L L			PDIR		17.42 ml/mx 19.0 ml/mx			
	Dual Magnum	4 7.62		L			PDIR		9.502 ml/mx			
L		1.02		L	14	5 <u>4</u> A			5.002 mi/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
391.946	ml	Roundup WMAX	4.5	L	
213.765	ml	Direx	4	L	
118.771	ml	Dual Magnum	7.62	L	

Reps: 3 Spray v		gal/ac	Plots: 12 by 22 fee Mix size: 1.5		.0186)	<b>.</b>					
Trt No.	Tr> N>	Form Conc	Form Unit	Form Type	Rate	Plot No. By Rep					
Produc	t quant	ities requ	uired for listed treatm	ents and a	pplications	in one trial:					
Amoun	t* Unit	Treatmo	ent Name Form Con	c Form Typ	be Lot Coo	le l					
	<ul> <li>* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1.5 liters (mix size basis).</li> <li>* Product amount calculations increased 25 % for overage adjustment.</li> </ul>										
	Trial Comments										
OBJEC	TIVE: C	ompare w	eed management progra	ams develop	ed to control	tropical spiderwort.					
			ALMER AMARANTH, SM excellent control.	1ALLFLOWEF	R Morning	GLORY:					
1. At 2 2. By I	<ul><li>TROPICAL SPIDERWORT:</li><li>1. At 20 d after the layby, control was similar among all systems.</li><li>2. By late-season, control was at most 86% even with the best program. Programs without Dual Magnum were less effective than those with Dual Magnum. Differences in the Dual rate or application timing were not noted in this trial.</li></ul>										
	veweed		s variable as the popul / effective programs pr			get established in this area. However, it is clear that control will be ntrol.					

## **University of Georgia**

Trial ID: C43-06 Location: Subbelt Bypo       Study Dir.: Stanley Culpepper Investigator: Stanley Culpepper         Weed Code Rating Data Type       CORSA control Sectored AD       CORSA Sectored Sectored Sectored Sectored Sectored Sectored Sectored Sectored AD       CORTO Sectored Sectored AD       CORTO Sectored Sectored AD       ADT SC AD       ADT SC AD       ADT SC AD       ADT SC AD       CORTO SC AD       CORTO SC AD       CORTO SC AD       SC SC AD			5	fropical	spiderwor	t respons	se to Dual	Magnum	systems.		
Lacet Lon:         Sumbel:         Expo         Trivestigator:         Stand Per State         AMAPA (MAPA (MAPA (Control Control Control Control Control State)         AMAPA (Control Control Control Control Control Control Control Control Control State)         AMAPA (Control Control Contrel Control Control Contrel Control Control Control Co	Tri	al ID: C43-06			Study	v Dir.: S	tanlev Cu	lpepper			
Rating Data Type         control         control         control         control         control         control         scontrol			Expo								
Rating Duit         % <th< td=""><td></td><td></td><td></td><td>DIGSA</td><td></td><td>COMBE</td><td>COMBE</td><td>AMAPA</td><td>AMAPA</td><td>IAQTA</td><td>IAQTA</td></th<>				DIGSA		COMBE	COMBE	AMAPA	AMAPA	IAQTA	IAQTA
Rating Date Assessed by Ab         Jul-10-06 SC         Sep-15-06 Jul-10-06         Jul-10-06 Jul-10-06         Sep-15-06 Jul-10-06         Jul-10-06 SC         Sep-15-06 Jul-10-06         Jul-10-06 Jul-10-06         Sep-15-06 Jul-10-06         Jul-10-06 Jul-10-06         Sep-15-06 Jul-10-06         Jul-10-06 Jul-10-06											
Assessed By         AD         SC											
Trt       Treatment       Rate       Unit       1       2       3       4       5       6       7       8         1       Roundup WMAX       22 OZ/A       99 a       99 a       99 a       67 b       100 a       99 a <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td></td>							-		-		
No. Name         Rate Unit         1         2         3         4         5         6         7         8           1 Roundup WMAX         22 OZ/A Direx         15         PT/A         99 a         99 a         99 a         67 b         100 a         99 a         99 a         99 a           2 Roundup WMAX         22 OZ/A Direx         1.5         PT/A         99 a         99 a         99 a         86 a         100 a         99 a         99 a         99 a         99 a         100 a         99 a <td< td=""><td>Trt-E</td><td>Eval Interval</td><td></td><td>42 DA-A</td><td>109 DA-A</td><td>42 DA-A</td><td>109 DA-A</td><td>42 DA-A</td><td>109 DA-A</td><td>42 DA-A</td><td>109 DA-A</td></td<>	Trt-E	Eval Interval		42 DA-A	109 DA-A	42 DA-A	109 DA-A	42 DA-A	109 DA-A	42 DA-A	109 DA-A
1       Roundup WMAX       22       OZ/A       99 a       99 a       99 a       67 b       100 a       99 a       99 a       99 a         2       Roundup WMAX       22       OZ/A       99 a								_		_	
Roundup WMAX         22         OZ/A         99 a         99 a         99 a         99 a         86 a         100 a         99 a         100 a         99 a           2 Roundup WMAX         22         OZ/A         99 a         99 a         99 a         86 a         100 a         99 a         99 a         99 a           3 Roundup WMAX         22         OZ/A         98 a         99											
Direx         1.5         PT/A	1			99 a	99 a	99 a	67 D	100 a	99 a	99 a	99 a
Roundup WMAX         22         QZ/A         Image: Constraint of the second s		-									
Direx         1.5         PT/A         Image: Constraint of the second	2	Roundup WMAX	22 OZ/A	99 a	99 a	99 a	86 a	100 a	99 a	100 a	99 a
Dual Magnum         8 OZ/A         Image: Constraint of the second		-									
3       Roundup WMAX       22       OZ/A       98 a       99 a       99 a       81 a       100 a       99 a       99 a       99 a         Jprex       1.5       PT/A         100 a       99 a <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>											
Roundup WMAX         22 OZ/A Direx         No	3				99 a	99 a	81 a	100 a	99 a	99 a	99 a
Dual Magnum         12         OZ/A         Image: Constraint of the second se	Ŭ				00 u	00 u	01 4	100 u	00 u	00 u	00 u
4       Roundup WMAX       22       OZ/A       98 a       99 a       95 a       70 b       100 a       99 a       98 a       99 a         Dual Magnum       8       OZ/A       99 a       99 a       70 b       100 a       99 a       99 a       99 a         Direx       1.5       PT/A       99 a       99 a <td></td>											
Dual Magnum         8 OZ/A Roundup WMAX         22 OZ/A 22 OZ/A Direx         99 a         99 a         95 a         84 a         100 a         99		-									
Roundup WMAX         22 OZ/A Direx         1.5 PT/A         Image: Constraint of the second	4			98 a	99 a	95 a	70 b	100 a	99 a	98 a	99 a
Direx         1.5         PT/A         Image: constraint of the second		•									
Dual Magnum       8       OZ/A         Roundup WMAX       22       OZ/A         Direx       1.5       PT/A         Dual Magnum       8       OZ/A         6       Roundup WMAX       22       OZ/A         99 a       99 a       99 a       82 a       100 a       99 a       98 a       99 a         0       Magnum       8       OZ/A		-									
Roundup WMAX         22         OZ/A         Image: Constraint of the second s	5	-		99 a	99 a	95 a	84 a	100 a	99 a	99 a	99 a
Direx         1.5         PT/A         Image: Constraint of the second											
Dual Magnum         8 OZ/A         Image: constraint of the second		-									
6       Roundup WMAX       22       OZ/A       99 a											
Roundup WMAX       22 OZ/A Direx       1.5 PT/A Dual Magnum       12 OZ/A       99 a       99 a       95 a       68 b       100 a       99 a       99 a       99 a         7 Roundup WMAX       22 OZ/A Dual Magnum       12 OZ/A       99 a       99 a       95 a       68 b       100 a       99 a       99 a       99 a         8 Roundup WMAX       22 OZ/A Direx       98 a       99 a       99 a       99 a       86 a       100 a       99 a       98 a       99 a         8 Roundup WMAX       22 OZ/A Direx       98 a       99 a       99 a       86 a       100 a       99 a       98 a       99 a         9 Roundup WMAX       22 OZ/A Direx       98 a       99 a       99 a       86 a       100 a       99 a       98 a       99 a         9 Roundup WMAX       22 OZ/A Direx       99 a       99 a       99 a       85 a       100 a       99 a       99 a       99 a         9 Roundup WMAX       22 OZ/A Dual Magnum       99 a       99 a       99 a       85 a       100 a       99 a       99 a       99 a         9 Roundup WMAX       22 OZ/A Dual Magnum       99 a       99 a       99 a       85 a       100 a       99 a       99 a <td>6</td> <td>-</td> <td>22 OZ/A</td> <td>99 a</td> <td>99 a</td> <td>99 a</td> <td>82 a</td> <td>100 a</td> <td>99 a</td> <td>98 a</td> <td>99 a</td>	6	-	22 OZ/A	99 a	99 a	99 a	82 a	100 a	99 a	98 a	99 a
Direx       1.5       PT/A       Image: constraint of the second secon		•									
Dual Magnum         12 OZ/A         Image: Constraint of the second secon		-									
7       Roundup WMAX       22       OZ/A       99 a       99 a       95 a       68 b       100 a       99 a       99 a       99 a         0ual Magnum       12       OZ/A       99 a       99 a       99 a       68 b       100 a       99 a       99 a       99 a         8       Roundup WMAX       22       OZ/A       98 a       99 a											
Dual Magnum       12 OZ/A       Image: Constraint of the second s	7	-		99 a	99 a	95 a	68 b	100 a	99 a	99 a	99 a
Direx         1.5 PT/A         Image: Constraint of the second sec		Dual Magnum	12 OZ/A								
8 Roundup WMAX       22 OZ/A       98 a       99 a       99 a       86 a       100 a       99 a       98 a       99 a         Dual Magnum       12 OZ/A       Pirex       1.5 PT/A       Pirex       1.5 PT/A       Pirex       1.5 PT/A       Pirex       Pirex       99 a       90 a       90 a       90 a       90 a       90 a       90 a		-									
Dual Magnum       12 OZ/A Roundup WMAX       22 OZ/A Direx       1.5 PT/A Dual Magnum       - <td>0</td> <td></td> <td></td> <td>08.0</td> <td>00.0</td> <td>00 0</td> <td><u> </u></td> <td>100 0</td> <td>00.0</td> <td>08 0</td> <td>00.0</td>	0			08.0	00.0	00 0	<u> </u>	100 0	00.0	08 0	00.0
Roundup WMAX       22 OZ/A Direx       1.5 PT/A Dual Magnum       Image: Second constraints of the second co	0				99 a	99 a	00 a	100 a	99 a	90 a	99 a
Dual Magnum         8 OZ/A         9         Image: Constraint of the second s											
9 Roundup WMAX       22 OZ/A       99 a       99 a       99 a       99 a       100 a       99 a       9											
Dual Magnum       12 OZ/A Roundup WMAX       22 OZ/A Direx       Image: Constraint of the second		-					05	100			
Roundup WMAX       22 OZ/A       Image: Constraint of the second	9				99 a	99 a	85 a	100 a	99 a	99 a	99 a
Direx       1.5 PT/A       Image: Constraint of the state of											
LSD (P=.05)2.60.05.48.30.40.02.60.0Standard Deviation1.50.03.14.80.30.01.50.0CV1.50.03.216.10.250.01.510.0Bartlett's X28.6850.012.9765.250.00.012.6690.0			1.5 PT/A								
Standard Deviation         1.5         0.0         3.1         4.8         0.3         0.0         1.5         0.0           CV         1.5         0.0         3.21         6.1         0.25         0.0         1.51         0.0           Bartlett's X2         8.685         0.0         12.976         5.25         0.0         0.0         12.669         0.0			12 OZ/A								
CV1.50.03.216.10.250.01.510.0Bartlett's X28.6850.012.9765.250.00.012.6690.0											
Bartlett's X2 8.685 0.0 12.976 5.25 0.0 0.0 12.669 0.0		naara Deviation									
		lett's X2									

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

Wee	ed Code			MUDNU
	ng Data Type			control
Rati	ng Unit			%
	ng Date			Sep-15-06
	essed By			SC
Trt-E	Eval Interval			109 DA-A
Trt	Treatment		Rate	
No.	Name	Rate	Unit	9
1	Roundup WMAX	22	OZ/A	74 ab
	Roundup WMAX	22	OZ/A	
	Direx	1.5	PT/A	
2	Roundup WMAX	22	OZ/A	86 a
	Roundup WMAX		OZ/A	
	Direx	-	PT/A	
	Dual Magnum	8	OZ/A	
3	Roundup WMAX	22		78 ab
	Roundup WMAX		OZ/A	
	Direx	1.5	PT/A	
	Dual Magnum		OZ/A	
4	Roundup WMAX		OZ/A	71 ab
	Dual Magnum	-	OZ/A	
	Roundup WMAX		OZ/A	
	Direx	1.5	PT/A	
5	Roundup WMAX	22	OZ/A	86 a
	Dual Magnum	-	OZ/A	
	Roundup WMAX		OZ/A	
	Direx	-	PT/A	
	Dual Magnum	8	OZ/A	
6	Roundup WMAX		OZ/A	79 ab
	Dual Magnum	-	OZ/A	
	Roundup WMAX		OZ/A	
	Direx	1.5	PT/A	
	Dual Magnum		OZ/A	
7	Roundup WMAX		OZ/A	67 b
	Dual Magnum		OZ/A	
	Roundup WMAX	22	OZ/A	
-	Direx	1.5	PT/A	
8	Roundup WMAX	22	OZ/A	78 ab
	Dual Magnum	12	OZ/A	
	Roundup WMAX	22		
	Direx	1.5	PT/A	
-	Dual Magnum	8	OZ/A	
9	Roundup WMAX	22	OZ/A	80 ab
	Dual Magnum		OZ/A	
	Roundup WMAX Direx		OZ/A PT/A	
	Dual Magnum	1.5	OZ/A	
		14	JUA	
	(P=.05)			14.4
Star CV	ndard Deviation			8.3 10.71
	lett's X2			8.839
	artlett's X2)			0.356
				0.000

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

Feb-21-07 (C43-06)

### **University of Georgia**

	Tropical spide	rwort response to Dual Magnum	systems.
Trial ID: C43-	06	Study Dir.: Stanley Culpepper	
Location: Sunb	elt Expo Inv	vestigator: Stanley Culpepper	
	GENERAL TRIAL	TNFORMATION	
Study Director	: Stanley Culpepper	Title: Ext. Wee	d Science
	University of Georgia		
Postal Code:			
Investigator:	Stanley Culpepper	Title: Ext. Wee	d Science
Affiliation:	University of Georgia		
Postal Code:	31794		
	TRIAL LO	OCATION	
City: M	oultrie	Trial Status:	completed
State/Prov.: G.	A	Trial Reliability:	excellent
Postal Code: U	SA	Initiation Date:	May-05-06
		Planned Completion Date	
E-Longitude of	LL Corner °:	N-Latitude of LL Corner $^{\circ}$	:
Altitude of LL	Corner: Unit:	Angle y-axis to North °	:
Directions:			
<b>~</b> .	COOPERATOR		
		•	
—			
Postal Code: _			
rostar code			
Conducted Inde	r GLP (Y/N) · N	Conducted Under GEP (Y/N): N	
		ription:	
Objective:			
Conclusions:			

#### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	DIGSA	large crabgrass	
2.	COMBE	tropical spiderwort	
3.	AMAPA	Palmer amaranth	
4.	IAQTA	smallflower morningglory	
5.	MUDNU	doveweed	

 Crop 1: GOSHI
 COTTON, SHORT STAPLE
 Variety: DP 555 BRR

 Planting Date:
 May-05-06
 Planting Method: seeded

 Rate: 3
 ft
 Depth: 0.5 in
 Perennial Age: \_\_\_\_\_\_

 Row Spacing: 36
 inch
 Spacing Within Row: 4
 inch
 Seed Bed: flat, clean

 Soil Temperature:
 81
 F
 Soil Moisture: irrigated
 Emergence Date: \_\_\_\_\_\_

 SITE AND DESIGN

 Plot Width, Unit: 12
 FT

 Plot Length, Unit: 22
 FT

 Reps: 3

 Site Type:
 Sunbelt Expo

 Tillage Type:
 conventional

 Study Design:
 FACTORIAL

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

### MAINTENANCE

Field Prep./Maintenance:

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

				SOIL DESCRIPTION	ſ
% Sand:	88	% OM:	6	Texture:	
% Silt:	12	pH:	1.2	Soil Name:	
% Clay:	0	CEC:		Fert. Level:	

### ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

_		MOISTURE CONDITIONS											
		Date	Time	Amount	Unit	Туре	Interval	Unit					
Ŀ	1.		1										

Overall Moisture Conditions: Closest Weather Station: \_\_\_\_

APPLICATION DESCRIPTION Α в Application Date: May-29-06 Jun-22-06 9:30 am Time of Day: 1:45pm Application Method: broadcast broadcast Application Timing: POST PDIR directed Applic. Placement: overtop Air Temp., Unit: 79 F 99 F 47 % Relative Humidity: 44 Wind Velocity, Unit: 3 mph 3 mph Dew Presence (Y/N): У n Water Hardness: 80 108 F Soil Temp., Unit: F perfect Soil Moisture: moist 20 20 % Cloud Cover:

### CROP STAGE AT EACH APPLICATION

	A	В
Crop 1 Code, Stage:	GOSHI POST	GOSHI PDIR
Stage Scale:	4 leaf	14 leaf
Height, Unit:	5 inch	22 inch

\_\_\_\_\_ Distance: \_\_\_\_ Unit: \_\_

	A	В
Weed 1 Code, Stage:	DIGSA POST	DIGSA PDIR
Stage Scale:	3-8 inch	1-4 inch
Density, Unit:	6 ydsq	1 ydsq
Weed 2 Code, Stage:	COMBE POST	COMBE PDIR
Stage Scale:	1-4 inch	< 4 inch
Density, Unit:	12 ydsq	8 ydsq
Weed 3 Code, Stage:	AMAPA POST	AMAPA PDIR
Stage Scale:	1-4 inch	<2 inch
Density, Unit:	1 ydsq	0.2 ydsq
Weed 4 Code, Stage:	IAQTA POST	IAQTA PDIR
Stage Scale:	1-4 inch	< 5 inch
Density, Unit:	3 ydsq	2 ydsq
Weed 5 Code, Stage:	MUDNU POST	MUDNU PDIR
Stage Scale:	not up	<0.1 in
Density, Unit:	0 ydsq	12 ydsq

#### WEED STAGE AT EACH APPLICATION

	APPLIC	CATION EQUIPMEN
	А	В
Appl. Equipment:	backpack	backpack
Operating Pressure:	24	18
Nozzle Type:	flat fan	floodjet
Nozzle Size:	11002	TK2
Nozzle Spacing, Unit:	18 inch	36 inch
Nozzles/Row:	2	1
Band Width, Unit:	4.5 ft	
Boom Length, Unit:		
Boom Height, Unit:	15 inch	10 inch
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	C02
Tank Mix (Y/N):	У	У

т

Trt No	Treatment Application Comment