	Tropical spiderwort response to metolachlor products.												
Tri	al ID: C26-05				Q+ 11	dv Dir	: Fla	anders, Culp	Jenner	~			
	ation: Grady County							anders, curp anley Culpep					
			by 25 1	feet		<u> </u>		<u> </u>					
	ay vol: 14.8 gal/ac				(min 1.	<u>543</u> 4)	_		_	_	_	_	
		Form			Rate		Appl	Amt Product	Plot N	lo. Bv l	Rep		
				Rate	Unit			to Measure	1	2	3	4	
1	Untreated								101	207	308	406	
2	Roundup Weathermax	4.5		22	fl oz/a	POST-1	А	23.23 ml/mx	102		305	408	
L	Roundup Weathermax	4.5		22	fl oz/a	POST-2	В	23.23 ml/mx			<u> </u>	ا ا	
3	Roundup Weathermax			22	fl oz/a	POST-1	A	23.23 ml/mx	103	205	303	409	
	Roundup Weathermax					POST-2		23.23 ml/mx		۹ k	1 k	۱ I	
	Dual Magnum	7.62		0.65	•	POST-2		10.98 ml/mx					
4	Roundup Weathermax	4.5				POST-1		23.23 ml/mx		208	307	401	
	Roundup Weathermax					POST-2		23.23 ml/mx		۹ k	1 k	1	
	Dual Magnum	7.62			pt/a	POST-2		16.89 ml/mx		<u> </u>	<u> </u>	<u> </u>	
5	Roundup Weathermax					POST-1		23.23 ml/mx		206	309	405	
	Roundup Weathermax	4.5				POST-2		23.23 ml/mx		۹ k	1 k	۱ I	
	Stalwart	8			pt/a	POST-2		16.89 ml/mx		┞	<u> </u>	<u> </u>	
6	Roundup Weathermax	4.5				POST-1		23.23 ml/mx		203	306	403	
	Roundup Weathermax					POST-2		23.23 ml/mx		۹ k	1 k	1	
<u> </u>	Roundup Weathermax				fl oz/a		С	23.23 ml/mx		<u> </u>	<u> </u>	<u> </u>	
7	Roundup Weathermax	4.5				POST-1		23.23 ml/mx		209	310	402	
	Roundup Weathermax	4.5				POST-2		23.23 ml/mx		۹ k	1 k	1	
1	Dual Magnum	7.62		0.65		POST-2		10.98 ml/mx		۹ k	1 k	۱ I	
-	Roundup Weathermax				fl oz/a		C	23.23 ml/mx					
8	Roundup Weathermax					POST-1		23.23 ml/mx		210	304	407	
1	Roundup Weathermax					POST-2		23.23 ml/mx		۹ I	۱ I	۱ ۱	
	Dual Magnum Roundup Weathermax	7.62 4.5			pt/a fl oz/a	POST-2	с С	16.89 ml/mx 23.23 ml/mx		۹ k	1 k	۱ I	
		4.5					-			20.4	200	440	
9	Roundup Weathermax Roundup Weathermax	4.5 4.5				POST-1 POST-2		23.23 ml/mx 23.23 ml/mx		204	302	410	
	Stalwart	4.5 8			n oz/a pt/a	POST-2 POST-2		23.23 mi/mx 16.89 ml/mx		۹ I	۱ I	۱ ۱	
1	Roundup Weathermax	4.5			fl oz/a		C	23.23 ml/mx		۹ k	1 k	۱ I	
10	Roundup Weathermax					POST-1	-	23.23 ml/mx		202	301	404	
	Roundup Weathermax	4.5				POST-2		23.23 ml/mx		202	001	-04	
1	Stalwart	5			pt/a	POST-2		21.96 ml/mx		۹ k	1 k	۱ I	
L	Roundup Weathermax	4.5			fl oz/a		C	23.23 ml/mx			<u> </u>	۱ <u> </u>	

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Lot Code
667.759	ml	Roundup Weathermax 4.5 L	
69.672	ml	Dual Magnum 7.62 L	
69.672	ml	Stalwart 8 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.

Tropical spiderwort response to metolachlor products.

Trial ID: C26-05 Location: Grady County Study Dir.: Flanders, Culpepper Investigator: Stanley Culpepper

Trial Comments

OBJECTIVE: Compare tropical spiderwort response to S-metolachlor and metolachlor.

RESULTS:

1. Treatments 2 through 5 did not get a layby application to compare longevity of control by metolachlor products. Roundup alone provided very poor control because of no residual weed control. For 4 weeks after application, no differences in control by either rate of Dual Magnum or Stalwart were noted. However as was the case in 2004, by 5 WAT control by Dual Magnum at 1 pt/A was more effective than Stalwart at 1 pt/A. No differences between Dual Magnum at 0.65 pt/A and Stalwart at 1 pt/A were noted.

2. Treatments 6 through 10 were more of a systems approach but included only glyphosate at layby. Four 4 weeks after the layby application, control was similar with all metolachlor programs; however by late-season, control was greater with the system containing 1 pt of Dual Magnum as compared to 1 pt of Stalwart.

University of Georgia

		Tı	ropica	l spiderw	ort respo	onse to me	tolachlo	r product	ts.		
Tri	al ID: C26-05			St	udy Dir.	Flanders	s, Culpep	per			
Loc	ation: Grady County	-				Stanley					
Wee	ed Code			COMBE	COMBE	COMBE	COMBE	COMBE	COMBE	COMBE	COMBE
	ng Data Type			control	control		control	control	control	control	control
	ng Unit			percent	percent						
	ng Date					Jun-30-05		Jul-12-05			Aug-03-05
	Eval Interval Treatment		Rate	24 DA-A	32 DA-A	38 DA-A	44 DA-A	50 DA-A	56 DA-A	64 DA-A	72 DA-A
	Name	Rate		1	2	3	4	5	6	7	8
	Untreated	Tato	Onic	0	0	0	0	0	0	, 0	0
	Roundup Weathermax	22	fl oz/a	51	55	55	34	39	43	46	38
2	Roundup Weathermax		fl oz/a	01	00	00	04	00	40	-10	00
3	Roundup Weathermax		fl oz/a	99	99	99	89	92	86	82	84
	Roundup Weathermax		fl oz/a					-		-	
	Dual Magnum	0.65	pt/a								
4	Roundup Weathermax	22	fl oz/a	99	99	98	92	95	92	88	90
	Roundup Weathermax		fl oz/a								
	Dual Magnum	1	pt/a								
5	Roundup Weathermax		fl oz/a	97	99	98	85	89	86	77	75
	Roundup Weathermax		fl oz/a								
	Stalwart		pt/a	45	50	50	0.0	04	05	70	
6	Roundup Weathermax Roundup Weathermax		fl oz/a fl oz/a	45	50	50	30	61	65	72	69
	Roundup Weathermax		fl oz/a								
7	Roundup Weathermax		fl oz/a	98	99	100	89	97	95	88	92
	Roundup Weathermax		fl oz/a					•••			
	Dual Magnum	0.65	pt/a								
	Roundup Weathermax	22	fl oz/a								
8	Roundup Weathermax		fl oz/a	97	99	100	92	99	98	90	95
	Roundup Weathermax		fl oz/a								
	Dual Magnum		pt/a fl.oz/a								
	Roundup Weathermax Roundup Weathermax		fl oz/a fl oz/a	99	99	99	87	97	94	87	91
9	Roundup Weathermax Roundup Weathermax		fl oz/a	99	99	99	07	97	94	07	91
	Stalwart		pt/a								
	Roundup Weathermax		fl oz/a								
10	Roundup Weathermax		fl oz/a	99	99	99	92	99	98	87	93
	Roundup Weathermax	22	fl oz/a								
1	Stalwart		pt/a								
	Roundup Weathermax	22	fl oz/a								
	(P=.05)			4.5	6.7	4.2	6.4	4.5	4.9	11.5	9.3
	idard Deviation			3.1	4.6	2.9	4.4	3.1	3.4	8.0	6.4
CV				3.99	5.76	3.61	6.41	4.05	4.48	11.1	8.88

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

	ed Code			COMBE
	ng Data Type			control
	ng Unit			percent
	ng Date			Sep-05-05
	Eval Interval			
Trt	Treatment		Rate	
No.	Name	Rate	Unit	9
1	Untreated			0
2	Roundup Weathermax	22	fl oz/a	21
	Roundup Weathermax	22	fl oz/a	
3	Roundup Weathermax	22	fl oz/a	80
	Roundup Weathermax	22	fl oz/a	
	Dual Magnum	0.65	pt/a	
4	Roundup Weathermax	22	fl oz/a	88
	Roundup Weathermax	22	fl oz/a	
	Dual Magnum	1	pt/a	
5	Roundup Weathermax	22	fl oz/a	78
	Roundup Weathermax	22	fl oz/a	
	Stalwart	1	pt/a	
6	Roundup Weathermax	22	fl oz/a	86
-	Roundup Weathermax		fl oz/a	
	Roundup Weathermax		fl oz/a	
7	Roundup Weathermax	22	fl oz/a	85
	Roundup Weathermax	22	fl oz/a	
	Dual Magnum	0.65	pt/a	
	Roundup Weathermax	22	fl oz/a	
8	Roundup Weathermax	22	fl oz/a	93
	Roundup Weathermax		fl oz/a	
	Dual Magnum	1	pt/a	
	Roundup Weathermax	22	fl oz/a	
9	Roundup Weathermax	22	fl oz/a	86
	Roundup Weathermax		fl oz/a	
	Stalwart	1	pt/a	
	Roundup Weathermax	22	fl oz/a	
10	Roundup Weathermax	22	fl oz/a	89
-	Roundup Weathermax		fl oz/a	
	Stalwart	1.3	pt/a	
	Roundup Weathermax	22	fl oz/a	
ISD	(P=.05)			6.7
	dard Deviation			4.6
CV				6.54

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

Mar-03-06 (C26-05)

University of Georgia

	Tropical	spiderwort response to metolachlor	products.
Trial ID: C26-05	5	Study Dir.: Flanders, Culpepp	er
Location: Grady	County	Investigator: Stanley Culpepper	
	GENERAL.	TRIAL INFORMATION	
-	Stanley Culpepper Univ. of Georgia	Title: Ext. We	ed Science
-	Stanley Culpepper Univ. of Georgia 31794	Title: Ext. We	ed Science
	TI	RIAL LOCATION	
City: Gra	ady County		completed
State/Prov.: GA		Trial Reliability:	excellent
Postal Code: 317	794	Initiation Date:	-
Country: USA		Planned Completion Dat	e:
		N-Latitude of LL Corner	
	Corner: Ur	nit: Angle y-axis to North	°:
Directions:			
	COOPI	ERATOR/LANDOWNER	
Cooperator:		Country:	
-			
Address 1:			
Address 2:			
City:			
State/Prov:			
Postal Code:			
		Conducted Under GEP (Y/N): N Description:	
Objective:			
Conclusions:			

			c	ROP A	ND WI	EED DI	ESCI	RIPTION	N			_
Weed	Code	Commo	on Name				S	cienti	fic Na	me		
1.	COMBE	tropical	spiderw	vort								
Crop	1: GO	SHI cot	ton						Va:	riety	: DP 555 B	3/RR
Plant	lanting Date: May-12-05 Planting Method: seeded											
Rate:	3	12incl	ı	Dept	:h: 0	.5	in		Peren	nial 2	Age:	
Row S	pacing	: 36	inch s	Spacin	ng Wit	thin 1	Row	: 12	in	See	ed Bed: be	edded
Soil	Temper	ature: 86	5 F	Soil	Moist	ture:	mo	ist	1	Emerge	ence Date:	: May-17-05
				S	SITE 2	AND D	ESIC	GN				
Plot	Width,	Unit: 12	2 FT		Plot	Leng	th,	Unit:	25	\mathbf{FT}	Reps:	4
		on fai e: conver				Study	y De	esign:	RANDO	MIZED	COMPLETE	BLOCK

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

MAINTENANCE

		Maintenance	Form	Form	Form		Rate
No.	Date	Treatment Name	Conc	Unit	Туре	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 M	IEASURED ELEI	MENTS
Element		Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Туре	Interval	Unit
1.							

Overall Moisture Conditions: irrigated

Closest Weather Station: _____ Distance: ____ Unit: ___

		APPLI	CATI	ON DES	CRIP	TION
		A		В		C
Application Date:	May-23-05		Jun-03-05		Jul-	06-05
Time of Day:	10 a	m	7 pm		9 am	l
Application Method:	broadcast		broadcast		broa	dcast
Application Timing:	POST-1		POST-2		PDIR	
Applic. Placement:	overtop		overtop		directed	
Air Temp., Unit:	76	F	86	F	78	F
% Relative Humidity:	60		45		72	
Wind Velocity, Unit:	4	mph	2	mph	2	mph
Dew Presence (Y/N):	n		n		n	
Water Hardness:						
Soil Temp., Unit:	73	F	80	F	90	F
Soil Moisture:	mois	t	wet		wet	
% Cloud Cover:	30		100		100	

CROP STAGE AT EACH APPLICATION

	A	В	С	
Crop 1 Code, Stage:	GOSHI POST-1	GOSHI POST-2	GOSHI PDIR	
Stage Scale:	1 leaf	5 leaf	13 leaf	
Height, Unit:	1.25 inch	5 inch	24 inch	

WEED STAGE AT EACH APPLICATION

	A	В	C		
Weed 1 Code, Stage:	COMBE POST-1	COMBE POST-2	COMBE PDIR		
Stage Scale:	none	none	4-6 inch		
Density, Unit:	0 ydsq	0 ydsq	100 ydsq		

	APPLICATION EQUIPMENT							
	A		в		C			
Appl. Equipment:	backpack		backpack		backpack			
Operating Pressure:	23		23		18			
Nozzle Type:	flat	fan	flat	fan	flat	fan		
Nozzle Size:	11002		11002		11002			
Nozzle Spacing, Unit:	18	inch	18	inch	12	inch		
Nozzles/Row:	2		2		3			
Band Width, Unit:								
Boom Length, Unit:	4.5	feet	4.5	feet	2	feet		
Boom Height, Unit:	15	inch	15	inch	12	inch		
Ground Speed, Unit:	3	mph	3	mph	3	mph		
Incorporation Equip.:								
Hours to Incorp.:								
Incorp. Depth, Unit:								
Carrier:	water		water		water			
Spray Volume, Unit:	14.8	GPA	14.8	GPA	14.8	GPA		
Spray pH:								
Propellant:	CO2		C02		CO2			
Tank Mix (Y/N):	Y		Y		Y			

Trt No

Treatment Application Comment