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University of Georgia

			G	lypho	sate-	resi	stant Pa	lmer	amaranth res	ponse	to l	Blizz	ard.	
Tri	al ID: C19	-08					Study	Dir.:	Culpepper, 1	Davis	1			
Loc	ation: Mac	on Cou	unty			1	Investig	ator:	Stanley Cul	peppe	r			
Rep	s: 4		Plots	:: 6 by 2	25 feet	t								
Spra	ay vol: 14.8 ga	al/ac		Mix siz	<u>ze: 1 lit</u>	ters (n	<u>nin .77168</u>	3)						
Trt	Treatment	Form	Form	Form		Rate	Grow	Appl	Amt Product	Plot N	lo. By l	Rep		
No.	Name	Conc	Unit	Туре	Rate	Unit	Stg	Code	to Measure	1	2	3	4	
1	Blizzard	0.91		L	0.5	OZ/A	POST 4"	А	0.2639 ml/mx	101	204	301	401	
1	COC			L	1	QT/A	POST 4"	А	16.89 ml/mx	1	1			
2	Blizzard	0.91		L	0.5	OZ/A	POST 4"	А	0.2639 ml/mx	102	201	303	402	
1	COC			L	1	QT/A	POST 4"	А	16.89 ml/mx		1			
	MSMA	6		L	2.5	PT/A	POST 4"	А	21.11 ml/mx		1			
	Diuron	4		L	1	QT/A	POST 4"	Α	16.89 ml/mx					
3	Diuron	4		L	1	QT/A	POST 4"	А	16.89 ml/mx	103	202	302	403	
	MSMA	6		L	2.5	PT/A	POST 4"	А	21.11 ml/mx		1			
	COC			L	1	QT/A	POST 4"	Α	16.89 ml/mx					
4	Non-treated	I.								104	203	304	404	
Sort	: Order: Treat	ment												

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code	
0.660	ml	Blizzard	0.91	L		
63.338	ml	COC		L		
52.782	ml	MSMA	6	L		
42.225	ml	Diuron	4	L		
* 'Per are * Product	a' cal amo	culations based or unt calculations in	n spray volur creased 25 %	ne= 14.8 ga ⁄⁄6 for overag	l/ac, mix si e adjustme	ze= 1 liters (mix size basis). ent.
					Trial Com	ments
OBJECTI	/E: De	termine cotton and g	lyphosate-res	istant Palmer	amaranth re	sponse to topical applications of Blizzard
Glyphosa 1. Blizzar 2. Diuron	te-res d plus plus N	stant Palmer amaran crop oil provided po //SMA provided good	th response: or control. I control and th	ne addition of	Blizzard did	not improve control.
Cotton Re 1. Blizzar 2. Diuron	spons d com plus N	e: pletely killed the cotto /ISMA provided good	on. control of cot	ton but cotton	ı began activ	vely regrowing by 17 DAT.
CONCLUS	SIONS: r studi	es are needed with I	Blizzard on the	e control of vo	ol. cotton.	
GENERAL 1. Rainfal Apr 28 May 9 May 11 May 20 May 24 Jun 11	COM I while 1 in 0.4 in 2.7 in 0.2 in 0.3 in 0.9 in	MENTS: the study was in pr	ogress is as f	ollows:		

Jun 22 1 in Jul 5 0.5 in Jul 21 1 in

Tri Loc	al ID: C19 ation: Mac	-08 on Co	ounty		St Inve	udy Dir.: stigator:	Culpeppe Stanley	r, Davis Culpepper
Wee Cro Rati Rati Rati Trt-B	ed Code p Code ng Data Type ing Unit ng Date Eval Interval	e		AMAPA GOSHI control % May-22-08 9 DA-A	AMAPA GOSHI control % May-30-08 17 DA-A	GOSHI control % May-22-08 9 DA-A	GOSHI control % May-30-08 17 DA-A	
Trt No.	Treatment Name	Rate	Rate Unit	1	2	3	4	
1	Blizzard COC	0.5 1	OZ/A QT/A	28 b	10 b	100 a	100 a	
2	Blizzard COC MSMA Diuron	0.5 1 2.5 1	OZ/A QT/A PT/A QT/A	97 a	80 a	100 a	100 a	
3	Diuron MSMA COC	1 2.5 1	QT/A PT/A QT/A	96 a	76 a	86 b	60 b	
4	Non-treated			0 c	0 b	0 c	0 c	
LSD Star CV Bart	0 (P=.05) ndard Deviati lett's X2	on		4.1 2.6 4.72 6.621	12.2 7.6 18.4 0.13	2.0 1.3 1.75 0.0	6.5 4.1 6.28 0.0	
	$a u c u c x \lambda z$			0.030	0.937	•		1

Glyphosate-resistant Palmer amaranth response to Blizzard.

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

	Glyphosate-re	esistant Palmer amaranth response to	Blizzard.			
Trial ID: C19-08	3	Study Dir.: Culpepper, Davis				
Location: Macon	County	Investigator: Stanley Culpepper				
GENERAL TRIAL INFORMATION						
Study Director: Affiliation: Postal Code:	Stanley Culpepper Univ. of Georgia 31794	Title: Ext. Weed	Science			
Investigator: Affiliation: Postal Code:	Stanley Culpepper Univ. of Georgia 31794	Title: Ext. Weed	Science			
	TRI	AL LOCATION				
City: Mad State/Prov.: GA Postal Code: 310 Country: USZ E-Longitude of I	con Co. 068 A LL Corner °:	Trial Status: Trial Reliability: Initiation Date: Planned Completion Date: N-Latitude of LL Corner °:	completed good Apr-23-08			
Altitude of LL (Directions:	Corner: Un1	t: Angle y-axis to North ":				
Cooperator	COOPER	AIOR/LANDOWNER				
Org:		Phone No:				
Address 1:		Fax No:				
Address 2: City: State/Prov: Postal Code:						
Conducted Under Guidelines:	GLP (Y/N): N Guideline	Conducted Under GEP (Y/N): N Description:				
Objective:						
Conclusions:						

CROP AND WEED DESCRIPTION

1. AMAPA Amaranth Palmer Amaranthus palmeri	Weed	Code	Common	Name	Scientifi	c Name
1 Internation, raimer international participation	1.	AMAPA	Amaranth,	Palmer	Amaranthus	palmeri

Crop 1: GO	SHI COTTON,	SHORT STAPLE		Variety:	Stonevei	ill RR Flex	161
Planting Da	te: Apr-24-08	Plan	ting Method	1: hill drop	ped		
Rate: 2	8 in	Depth: 0.5	in	Perennial A	ge:		
Row Spacing	: 36 in	Spacing Within	Row: 8.5	in See	ed Bed: fl	lat	
Soil Temper	ature: 85	F Soil Moisture	: moist	Emerge	nce Date:	: Apr-29-08	
		SITE AND 1	DESIGN				
Plot Width,	Unit: 6	FT Plot Leng	gth, Unit:	25 FT	Reps:	4	
Site Type:	On Farm						
Tillage Typ	e: Macon Co.	Stu	dy Design:	RANDOMIZED	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	1
%	Sand:	82	% OM:	2.0	Texture:	loamy sand
%	silt:	14	pH:	6.4	Soil Name:	
%	Clay:	4	CEC:		Fert. Level:	

ADDITIONAL N	IEASURED ELEMEN	ITS
Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Туре	Interval	Unit
1.							

Overall Moisture Conditions: see comments Closest Weather Station: _____ Distance: ____ Unit: ___

	А
Application Date:	May-13-08
Time of Day:	6:00 pm
Application Method:	broadcast
Application Timing:	POST
Applic. Placement:	overtop
Air Temp., Unit:	78 F
% Relative Humidity:	45
Wind Velocity, Unit:	0 mph
Dew Presence (Y/N):	N
Water Hardness:	
Soil Temp., Unit:	82 F
Soil Moisture:	moist
% Cloud Cover:	100

APPLICATION DESCRIPTION

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	GOSHI A
Stage Scale:	2 leaf
Height, Unit:	2.5 in

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	AMAPA A
Stage Scale:	5 in
Density, Unit:	14 ydsq

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

Trt No

Treatment Application Comment