Tri	al ID: C22	-08					Study Dir	r.: St	anley Culp	epper			
Loc	ation: Mac	on Coi	unty			I	-		anley Culp				
Rep	s: 3		Plots	: 6 by 2	25 feet	t							
Spra	ay vol: 14.8 ga	al/ac		Mix siz	ze: 1 lit	ters (n	nin .57876)						
	Treatment						Grow	Appl		Plot N	lo. By l	Rep	
No.	Name	Conc	Unit	Туре	Rate	Unit	Stg	Code	to Measure	1	2	3	
1	None Strip Tillage									101	205	306	
2	None No-tillage									102	207	307	
3	Valor Strip Tillage	51		DG	1	OZ/A	PREPLANT	A	0.506 g/mx	103	206	301	
4	Valor No-tillage	51		DG	1	OZ/A	PREPLANT	A	0.506 g/mx	104	210	302	
5	Valor Strip Tillage	51		DG	2	OZ/A	PREPLANT	A	1.012 g/mx	105	208	303	
6	Valor No-tillage	51		DG	2	OZ/A	PREPLANT	А	1.012 g/mx	110	209	304	
7	Valor Strip Tillage	51		DG	3	OZ/A	PREPLANT	А	1.518 g/mx	106	203	308	
8	Valor No-tillage	51		DG	3	OZ/A	PREPLANT	А	1.518 g/mx	107	204	309	
9	Valor Strip Tillage	51		DG	4	OZ/A	PREPLANT	A	2.024 g/mx	108	201	310	
10	Valor No-tillage	51		DG	4	OZ/A	PREPLANT	A	2.024 g/mx	109	202	305	

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
12.651	g	Valor	51	DG	

* '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 impact of strip tillage on residual Palmer amaranth control by Valor.

Palmer Response:

- 1. Main effects were significant.
- 2. At 14 DAT (9 d after strip till), control was similar among all Valor treated systems.
- 3. By 21 DAT, Valor at 2, 3, and 4 oz/A was more effective than Valor at 1 oz.
- 4. By 30 DAT, control where tillage was not implemented was 18% greater than when performing a strip-tillage operation when pooled over rates.
- 5. By 40 DAT, control where tillage was not implemented was 27% greater than when performing a strip-tillage operation when pooled over rates.

6. Late in the season, Valor at 1 oz per acre was less effective than Valor at 2, 3, and 4 oz/A. Little differences were noted when comparing Valor at 2, 3, or 4 oz/A.

GENERAL COMMENTS:

- 1. April 18, 2008 treatments were applied.
- 2. April 23, 2008 strip till operation was performed for those treatments requiring strip tillage.
- 3. May 14, 2008 Oversprayed trial with 22 oz/A Roundup PowerMax.

4. May 28, 2008 - Oversprayed trial with 22 oz/A WMax.
5. Rainfall that occurred throughout the trial included: Apr 28 1 in May 9 0.4 in

May 112.7 inMay 200.2 inMay 240.3 inJun 110.9 inJun 170.6 inJun 221 inJul 50.5 inJul 211 in

Impa	ct of strip	-tillage d	on Valor's	ability	to control Pa	lmer	amaranth.	
Trial ID: C22-08		St	udy Dir.:	Stanley	Culpepper			
Location: Macon Count	-y				Culpepper			
Weed Code	AMAPA	AMAPA	AMAPA	AMAPA				
Crop Code	GOSHI							
Rating Data Type	control	control						
Rating Unit	%	%	%	%				
Rating Date		May-09-08						
Trt-Eval Interval	14 DA-A	21 DA-A	30 DA-A	40 DA-A				
Trt Treatment Ra								
No. Name Rate Ur	it 1	2	3	4				
1 None Strip Tillage	0 b	0 c	0 e	0 c				
2 None No-tillage	0 b	0 c	0 e	0 c				
3 Valor 1 Oz Strip Tillage	7/A 97a	83 b	33 d	13 c				
4 Valor 1 Oz No-tillage	7/A 99 a	88 ab	63 c	50 b				
5 Valor 2 Oz Strip Tillage	7/A 100 a	96 ab	69 bc	60 b				
6 Valor 2 Oz No-tillage	7/A 100 a	98 a	86 ab	81 a				
7 Valor 3 Oz Strip Tillage	7/A 100 a	93 ab	73 bc	53 b				
8 Valor 3 Oz No-tillage	7/A 100 a	99 a	92 a	86 a				
9 Valor 4 Oz Strip Tillage	7/A 100 a	93 ab	73 bc	53 b				
10 Valor 4 OZ No-tillage	/A 100 a	98 a	96 a	89 a				
LSD (P=.05)	3.1	12.1	16.6	14.7				
Standard Deviation	1.8		9.7	8.6				
CV	2.29	9.44	16.54					
Bartlett's X2	6.32			2.471				
P(Bartlett's X2)	0.012*	0.003*	0.305	0.929				

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

Jun-12-09 (C22-08)

University of Georgia

	Impact of strip-til	lage on Valor's ability to control	Palmer amaranth.
	0		
Trial ID: C22-0		Study Dir.: Stanley Culpepper	
Location: Macon	County	Investigator: Stanley Culpepper	
		RIAL INFORMATION	
	Stanley Culpepper	Title: Ext. Weed	Science
	Univ. of Georgia		
Postal Code:	31794		
_	Stanley Culpepper	Title: Ext. Weed	Science
	Univ. of Georgia		
Postal Code:	31794		
	TRIA	AL LOCATION	
City: Mad	con Co.	Trial Status:	completed
State/Prov.: GA		Trial Reliability:	good
Postal Code: 31	794	Initiation Date:	Apr-18-08
Country: US2		Planned Completion Date:	
		N-Latitude of LL Corner °:	
Altitude of LL (Corner: Unit	Angle y-axis to North °:	
Directions:			
	COOPERA	ATOR/LANDOWNER	
Cooperator:		Country:	
Org:		Phone No:	
		Fax No:	
Postal Code:			
Conducted Under	GLP (Y/N): N	Conducted Under GEP (Y/N): N	
Guidelines:	Guideline I	Description:	
Objective:			
Conclusions:			

			C	ROP AND WE	EED DESCI	RIPTIO	N			
Weed	Code	Common	Name		Scien	tific	Name			
1.	AMAPA	Palmer am	aranth							
-		ne no te: Nov-0	-	I	Planting	Method		ariety: 1 11 drop	none	
Rate:				Depth: _			Pere	nnial Age	e:	
Row S	pacing	: 36 i	n s	pacing Wit	thin Row	:		Seed	Bed:	
Soil	Temper	ature: 82	F	Soil Moist	ture: mo:	ist		Emergen	ce Date:	:
		Unit: 6 On Far		SITE A Plot	AND DESIG		25	FT	Reps:	3
		e: see pl			Study De	esign:	SPLI	I-PLOT		

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: 82	% OM:	2	Texture: loamy sand	
% Silt: 14	pH:	6.4	Soil Name:	
% Clay: 4	CEC:		Fert. Level:	

	ADDITIONAL M	EASURED	ELEMEN	TS
Element		Quant	ity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Туре	Interval	Unit
1.							

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

	A
Application Date:	Apr-18-08
Time of Day:	8:00 am
Application Method:	broadcast
Application Timing:	preplant
Applic. Placement:	on soil
Air Temp., Unit:	67 F
% Relative Humidity:	47
Wind Velocity, Unit:	0 mph
Dew Presence (Y/N):	Ν
Water Hardness:	
Soil Temp., Unit:	61 F
Soil Moisture:	dry
% Cloud Cover:	0

APPLICATION DESCRIPTION

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	none .
Stage Scale:	
Height, Unit:	

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	AMAPA A
Stage Scale:	preplant
Density, Unit:	30 ydsq

	-
	А
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):	У

Trt No

Treatment Application Comment