	Wheat response to Valor and Dual Magnum applied topically.												
	Crial ID: Veg50-06Study Dir.: Stanley CulpepperJocation: Ponder farmInvestigator: Stanley Culpepper												
	teps: 4 Plots: 6 by 20 feet pray vol: 14.8 gal/ac Mix size: 1 liters (min .61734)												
	Treatment Name		Form Type	Rate		Grow Stg		Amt Product to Measure	Plot N 1	o. By 2	Rep 3	4	
	None Duol Mognum	7 60		1 2		POST	۸	10.98 ml/mx	101 102	204 201	301 302	404 407	
	Dual Magnum Valor		WDG			POST		1.518 g/mx	102	201	302	407	
4	Valor COC	51	WDG L			POST POST		1.518 g/mx 16.89 ml/mx	104	202	307	405	
5	Valor NIS	51	WDG L	-		POST POST		1.518 g/mx 2.5 ml/mx	105	203	306	408	
6	Valor Dual Magnum	-	WDG L	-		POST POST		1.518 g/mx 10.98 ml/mx	106	208	305	403	
7	Valor Dual Magnum COC		WDG L L	1.3	PT/A	POST POST POST	А	1.518 g/mx 10.98 ml/mx 16.89 ml/mx		205	304	406	
8	Valor Dual Magnum NIS		WDG L L	1.3	PT/A	POST POST POST	А	1.518 g/mx 10.98 ml/mx 2.5 ml/mx	108	206	303	402	

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
54.893	ml	Dual Magnum	7.62	L	
11.386	g	Valor	51	WDG	
42.225	ml	COC		L	
6.249	ml	NIS		L	

* '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.

* 'Per volume' calculations use spray volume= 14.8 gal/ac, mix size= 1 liters.

Trial Comments

OBJECTIVE: Determine the most effective method to apply Valor and Dual in vegetable row middles without killing emerged wheat (cover).

VISUAL WHEAT INJURY:

1. At 7 DAT, severe injury was noted with Valor mixed with COC or with Dual Magnum. Injury from Valor + Dual Magnum (50+%) was worse than Valor + COC (34%). The addition of COC or NIS with Valor + Dual Mag did not increase injury. Injury was less than 10 percent with Valor or Dual applied alone.

2. By 35 DAT, wheat stunting from Valor + NIS or COC was still moderate. However, wheat growth in plots treated with Dual Magnum was severely limited. Valor applied alone provided little wheat injury.

PRIMROSE CONTROL:

1. Primrose was less than 0.5 inch at time of application.

2. All Valor systems provided excellent control.

3. Dual provided little control

CONCLUSIONS:

1. In row middles seeded to wheat, a system of Valor alone followed by Dual Magnum once the crop reaches adequate size may be an effective program to manage weeds and to maintain a cover crop in the row middles. Additional work is needed in wheat, rye, and ryegrass.

AOV Means Table Page 3 of 6

University of Georgia

	wheat response to varor and buar magnum appried								
	al ID: Veg50						-	tanley Cu	
	ation: Ponde	r Iar	m	_		Invest	igator: S	tanley Cu	Ipepper
	ed Code							OEOLA	
	o Code			TRZA		TRZAW	TRZAW		
	ng Data Type				ırn	burn	stunt		
	ng Unit			perce					
	ng Date essed By				U6 SC	Feb-08-06 SC	Mar-08-06 SC		
	Eval Interval			3 DA		7 DA-A			
			Data	3 DF	- Α	T DA-A	33 DA-A	55 DA-A	
	Treatment Name	Rate	Rate Unit	1		2	3	4	
1	None			0	С	0 d	0 e	0 c	
2	Dual Magnum	1.3	PT/A	5	bc	5 d	54 b	8 b	
3	Valor	3	OZ/A	3	с	3 d	9 de	98 a	
4	Valor COC	-	OZ/A QT/A	28	а	34 b	24 c	100 a	
5	Valor NIS	3	OZ/A % V/V	11	b	20 c	14 cd	100 a	
6	Valor Dual Magnum	3	OZ/A PT/A	26	а	50 a	73 a	100 a	
7	Valor Dual Magnum COC	3 1.3	OZ/A PT/A QT/A	31	а	55 a	79 a	100 a	
8	Valor Dual Magnum NIS	1.3	OZ/A PT/A % V/V	31	a	50 a	74 a	100 a	
LSD	(P=.05)			7	7.7	11.2	11.1	5.4	
Star	dard Deviation			Ę	5.2	7.6	7.6	3.7	
CV				30.	97	28.12	18.66	4.84	
	lett's X2			7.2		4.471	11.511	3.484	
P(B	artlett's X2)			0.3	01	0.613	0.074	0.062	

Wheat response to Valor and Dual Magnum applied topically.

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

	Wheat respons	se to Valor and Dual Magnum applied	l topically.
Trial ID: Veg50	-06	Study Dir.: Stanley Culpepper	
Location: Ponder	r farm	Investigator: Stanley Culpepper	
	GENERAL T	TRIAL INFORMATION	
Study Director:	Stanley Culpepper	Title: Ext. Wee	d Science
	Univ. of Georgia		
Postal Code:			
Investigator:	Stanley Culpepper	Title: Ext. Wee	d Science
Affiliation:	Univ. of Georgia		
Postal Code:	31794		
	TRI	IAL LOCATION	
City: TyTy		Trial Status:	
State/Prov.: GA		Trial Reliability:	
Postal Code: 31794		Initiation Date:	
Country: USA		Planned Completion Date	
		N-Latitude of LL Corner °	
	Corner: Uni	it: Angle y-axis to North °	•
Directions:			
	COOPER	RATOR/LANDOWNER	
Cooperator:		Country:	
_			
Address 1:			
Address 2:			
City:			
State/Prov:			
Postal Code:			
Conducted Under	GLP (Y/N): N	Conducted Under GEP (Y/N): N	
Guidelines:	Guideline	Description:	
Objective:			
Conclusions:			

				CROP 1	AND W	EED DES	SCRIPTI	ON			
Weed	Code	C	ommon	Name			Sc	cientif	ic Name		
1.	OEOLA	cutleaf	eveni	ngprimr	ose						
Crop	1 • TP	.ZAW w	inter	wheat				V	ariety.	Pioneer	26 P12
-		te: Nov-				Plantir	ng Meth		-	FIONCEL	20 1(12
										je:	
Row S	pacing	: 7.5	inch	Spacin	ng Wi	thin Ro			Seed	l Bed:	
Soil	Temper	ature: 6	68	F Soil	Mois	ture: n	noist		Emergen	nce Date:	:
					3778	AND DES	STON				
Plot	Width,	Unit: (б					: 20	FT	Reps:	4
Site	Type:	Resea	arch s	tation							
Tilla	ge Typ	e: conve	ention	al		Study	Design	: RANDO	OMIZED C	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.							

		SO	IL DESCRIPTIC	N
% Sand: 94	% OM:	1.1	Texture:	sand
% Silt: 2	pH:	6.1	Soil Name:	Tifton sandy loam
% Clay: 4	CEC:		Fert. Level:	

	ADDITIONAL M	IEASURED	ELEMEN	TS
Element		Quant	ity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Туре	Interval	Unit
1.							

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

	A
Application Date:	Feb-01-06
Time of Day:	10 am
Application Method:	broadcast
Application Timing:	POST
Applic. Placement:	overtop
Air Temp., Unit:	66 F
% Relative Humidity:	34
Wind Velocity, Unit:	1 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	64 F
Soil Moisture:	moist
% Cloud Cover:	25

APPLICATION DESCRIPTION

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	TRZAW POST
Stage Scale:	2 tiller
Height, Unit:	5 inch

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	OEOLA PRE
Stage Scale:	<0.5 inch
Density, Unit:	5 ydsq

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

Trt No

Treatment Application Comment