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Nutsedge response to increasing Vapam rate on outside two nozzle tips.

Trial ID: Veg66-06 Study Dir.: Stanley Culpepper

Location: Ponder farm Investigator: Stanley Culpepper

Reps: 3 Plots: 6 by 60 feet

Spray vol: 14.8 gal/ac Mix size: 1 liters (min 1.389)

Trt	Treatment	Form	Form	Form		Rate	Grow	Appl	Amt Product	Plot N	lo. By	Rep
No.	Name	Conc	Unit	Type	Rate	Unit	Stg	Code	to Measure	1	2	3
1	Pic 150 lb fb Vapam 75 G									102	202	302
2	Pic 150 lb fb Vapam 75 G									101	201	301
	Outside tips +20% Vapam											

Sort Order: Treatment

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

Amount* Unit Treatment Name Form Conc Form Type Lot Code

- * '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 if nutsedge control can be improved by in the 3-way system by increasing the Vapam rate on the bed shoulder.

1. Increasing the Vapam rate on the outside 2 blades of the 8 blade apparatus did not improve control during the first month as both programs were extremely effective. However by later in the season, both visual control and the number of nutsedge plants penetrating the mulch were decreased at least 16% when increasing the Vapam rate by 20% on the outside two blades.

GENERAL COMMENTS

- 1. An orifice applying 20% more on the outside blade was used in this trial.
- 2. July 19: fumigants were applied, beds were formed and mulch was laid. Soil and air reached 92 at 4 inches and 88 at 8 inches by early afternoon, moisture was ideal. PIC was applied with the super bedder plastic layer injecting fumigant 8 inches deep with 3 knives on a 32 inch bedtop. Vapam was injected 4 inches deep into the final bed with the injection knives 4 inches apart. Telone II was injected 10-12 inches deep with a Yetter applicator.

Feb-21-07 (Veg66-06) AOV Means Table Page 2 of 5

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		CYPZZ	CYPZZ	CYPZZ	CYPZZ	CYPZZ	CYPZZ
		control	control	control	control	#	#
		%	%	%	%	per plot	per plot
		Aug-04-06	Aug-15-06	Aug-24-06	Sep-30-06	Jul-26-06	Aug-24-06
		SC	SC	AD	SC		
		16 DA-A	27 DA-A	36 DA-A	73 DA-A	7 DA-A	36 DA-A
R	ate						
Rate U	nit	1	2	3	4	5	6
		88 a	78 a	76 a	61 b	0 a	124 a
		95 a	80 a	84 a	78 a	0 a	71 b
		14.3	18.8	21.5	16.9	0.0	34.2
		4.1	5.3	6.1	4.8	0.0	9.7
		4.46	6.73	7.69	6.91	0.0	10.0
		0.985	2.243	0.277	0.616	0.0	0.731
		0.321	0.134	0.599	0.432		0.393
			Control % Aug-04-06 SC 16 DA-A Rate Unit 1 88 a 95 a 14.3 4.1 4.46 0.985	Control	CYPZZ CYPZZ CYPZZ CYPZZ control control % % Aug-04-06 SC SC AD 36 DA-A Rate Unit 1 2 3 Rate Unit 1 2 3 Rate Unit 1 1 2 3 Rate Unit 1 5 3 6.1 4.46 6.73 7.69 0.985 2.243 0.277	Control Control Control Control Control % % % % % % % % % % % % % % % % % % %	CYPZZ CYPZZ CYPZZ CYPZZ CYPZZ CYPZZ CYPZZ control control control who where we will be control control control who where we will be control control who who who who who will be control control who who who who who will be control who who who who who who who will be control who

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

Feb-21-07 (Veg66-06) Site Description Page 3 of 5

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	Nutsedge	response to i	ncreasing Vapam rate on outside	two nozzle tip	s.
Trial ID: Veg66	5-06		Study Dir.: Stanley Culpepper		
Location: Ponde		Tr	nvestigator: Stanley Culpepper		
200401011 101140					
atudu Dinastan.	O+1 O		INFORMATION	d Caiamaa	
Study Director:	_		Title: Ext. Wee	d Science	
Affiliation:		ly of Georgia			
Postal Code:	31/94				
Trucationton	Ctonlor C	Jul nonnow	Title: Ext. Wee	d Caionao	
Investigator: Affiliation:			ille: Ext. Wee	d Scrence	
Postal Code:		Ly of Georgia			
Postar Code:	31/94				
		тртат. 1	LOCATION		
City: Ty	- Т\ <i>1</i>	IKIALI	Trial Status:	completed	
State/Prov.: GA	-		Trial Reliability:	-	
Postal Code: 31			Initiation Date:	CACCIICIIC	
Country: US			Planned Completion Date	•	
E-Longitude of		0.	N-Latitude of LL Corner °		
			Angle y-axis to North °		
Directions:	corner	01110.	Aigle y-axis to North	•	
DITECCIONS.					
		COOPERATOR	R/LANDOWNER		
Cooperator:		COOI MUITO			
Org:			_, _		
3 4 4 0					
City:					
State/Prov:					
Postal Code:					
Conducted Under	GLP (Y/N)): N	Conducted Under GEP (Y/N): N		
			cription:		
Objective:					
Conclusions:					
		CROP AND WEED	DESCRIPTION		
Weed Code Co	ommon Name		Scientific Name		
1. CYPZZ nuts	edge speci	.es			
Crop 1: none	no crop		Variety:		
Planting Date:		Pla	nting Method:		
			Perennial Age:		
			n Row: Seed Bed:		
			e: Emergence Date		
		SITE AND	DESIGN		
Plot Width. Uni	t: 6		ength, Unit: 60 FT Reps	: 3	
Site Type: P				• 3	
			udy Design: RANDOMIZED COMPLETI	E BLOCK	
		50			
Trial Initiatio	n Comments	:			
		. •			
Drossione	Crops		Previous Pesticides	Voca	
Previous	CTODS		FIEVIOUS PESCICICES	Year	

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

% Sand: 94 % OM: 6.4 Texture: Sand
% Silt: 2 pH: 1.3 Soil Name: Tifto
% Clay: 4 CEC: _____ Fert. Level: Soil Name: Tifton sandy loam

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Туре	Interval	Unit
1.							

Overall Moisture Conditions: Closest Weather Station: _____ Distance: ____ Unit: __

APPLICATION DESCRIPTION

	A
Application Date:	Jul-19-06
Time of Day:	all day
Application Method:	in bed
Application Timing:	preplant
Applic. Placement:	in bed
Air Temp., Unit:	88 F
% Relative Humidity:	74
Wind Velocity, Unit:	2 mph
Dew Presence (Y/N):	n
Water Hardness:	n
Soil Temp., Unit:	88 F
Soil Moisture:	moist
% Cloud Cover:	20

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:	CYPZZ preplant
Stage Scale:	not up
Density, Unit:	

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APPLICATION EQUIPMENT

	A
Appl. Equipment:	see
Operating Pressure:	comments
Nozzle Type:	
Nozzle Size:	
Nozzle Spacing, Unit:	
Nozzles/Row:	
Band Width, Unit:	
Boom Length, Unit:	
Boom Height, Unit:	
Ground Speed, Unit:	
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	
Spray Volume, Unit:	
Spray pH:	
Propellant:	
Tank Mix (Y/N):	

Trt No	Treatment Application Comment