Measuring Vapam placement depths on nutsedge control.

Trial ID: Veg46-05 Study Dir.: Stanley Culpepper
Location: Ponder farm (5160) Investigator: Stanley Culpepper

Reps: 3 Plots: 6 by 65 feet

Spray vol: 14.8 gal/ac Mix size: 2 liters (min 1.5048)

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Trt	Treatment	Form	Form		Rate	Grow	Appl	Amt Product	Plot N	lo. By l	Rep
No.	Name	Conc	Type	Rate	Unit	Stg	Code	to Measure	1	2	3
1	Vapam 75 G								102	203	301
	3-4 inch deep										
2	Vapam 75 G								103	201	302
	6 inch deep										
3	Non-treated							•	101	202	303

Sort Order: Treatment

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

Amount* Unit Treatment Name Lot Code

- * '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.

Trial Comments

OBJECTIVE: Determine the ideal depth for Vapam placement to manage nutsedge.

Nutsedge Response:

- 1. Visual control and actual nutsedge counts provided similar conclusions.
- 2. Vapam placed 3-4 inches or 6 inches deep provided similar control.

GENERAL COMMENTS:

1. July 13: fumigants were applied, beds were formed and mulch was laid. Soil and air reached 94 degrees by mid day, moisture was ideal. Vapam was injected in the final bed top with injection disk 4 inches apart. Telone II was injected 10-12 inches deep with a Yetter applicator.

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Weed Code	CYPRO						
Rating Data Type	control	control	control	number	number	number	number
Rating Unit	percent	percent	percent	#/plot	#/plot	#/plot	#/plot
Rating Date	Jul-25-05	Aug-05-05	Aug-11-05	Jul-27-05	Aug-02-05	Aug-08-05	Aug-15-05
Trt-Eval Interval	12 DA-A	23 DA-A	29 DA-A	14 DA-A	20 DA-A	26 DA-A	33 DA-A
Trt Treatment Rate							
No. Name Rate Unit	1	2	3	4	5	6	7
1 Vapam 75 G	90	83	70	34	72	77	124
3-4 inch deep							
2 Vapam 75 G	88	77	67	34	81	101	146
6 inch deep							
3 Non-treated	0	0	0	157	479	310	413
LSD (P=.05)	14.8	7.9	10.0	70.6	242.1	146.4	122.0
Standard Deviation	6.5	3.5	4.4	31.1	106.8	64.6	53.8
CV	11.0	6.55	9.68	41.5	50.74	39.67	23.62

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

Mar-03-06 (VEG46-05) Site Description Page 3 of 5

University of Georgia

	Measuring Vapam placement depths on nutsedge control.
Trial ID: Veg46-05	Study Dir.: Stanley Culpepper
Location: Ponder farm (51	160) Investigator: Stanley Culpepper
	GENERAL TRIAL INFORMATION
Study Director: Stanley C	
Affiliation: Univ. of	
Postal Code: 31794	<u>-</u>
Investigator: Stanley C	Culpepper Title: Ext. Weed Science
Affiliation: Univ. of	Georgia
Postal Code: 31794	
	TRIAL LOCATION
City: TyTy	Trial Status: completed
State/Prov.: GA	Trial Reliability: excellent
Postal Code: 31794	Initiation Date: Jul-13-05
Country: USA	Planned Completion Date:
	°: N-Latitude of LL Corner °:
Altitude of LL Corner: $_$	Unit: Angle y-axis to North o:
Directions:	
	COOPERATOR/LANDOWNER
Cooperator:	
Org:	Phone No:
Address 1:	Fax No:
Address 2:	
City:	
State/Prov:	
Postal Code:	
	: N Conducted Under GEP (Y/N): N
Guidelines:	Guideline Description:
Obdo atdom	
Objective:	
Conclusions:	
Colletusions:	
	CROP AND WEED DESCRIPTION
Weed Code Common Name	Scientific Name
1. CYPRO purple nutsedg	
2. Clino parpie nacecay	
Crop 1: none fallow	Variety:
	Planting Method:
Rate:	Depth: Perennial Age:
	Spacing Within Row: Seed Bed: Soil Moisture: Emergence Date:
soii lemperature:	Soli moiscure: mmergence Date:
	SITE AND DESIGN
plan wideh imin. C	FT Plot Length, Unit: 65 FT Reps: 3
Site Type: research st	
rrrage rype: prastrouttu	re Study Design: RANDOMIZED COMPLETE BLOCK
Trial Initiation Comments	
Trial Initiation Comments	•
Previous Crops	Previous Pesticides Year

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

SOIL DESCRIPTION

Sand: 94 % OM: 1.3 Texture: loamy sand
Silt: 2 pH: 6.2 Soil Name:
Clay: 4 CEC: ____ Fert. Level: Soil Name: _____ Fert. Level:

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-13-05
Time of Day:	1 pm
Application Method:	broadcast
Application Timing:	fumigatio
Applic. Placement:	in soil
Air Temp., Unit:	92 F
% Relative Humidity:	54
Wind Velocity, Unit:	2 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	90 F
Soil Moisture:	moist
% Cloud Cover:	70

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:	CYPRO preplant
Stage Scale:	not up
Density, Unit:	see data

APPLICATION EQUIPMENT

	A
Appl. Equipment:	see
Operating Pressure:	comment
Nozzle Type:	section
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