

University of Georgia

Nutsedge response to various applications of Telone II, Pic and Vapam.

Trial ID: Veg52-05 Study Dir.:
 Location: Ponder farm (5158) Investigator: Stanley Culpepper

Reps: 3 Plots: 2.67 by 65 feet
 Spray vol: 0.2359 gal/ac Mix size: 0.2359 gallons (min .00282)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Product Code to Measure	Plot No. By Rep		
								1	2	3
1	Telone II 12g inject	12 in				prebed	A	101	203	301
	Pic 150 lb inject	6-8 in				in bed	B			
	Vapam 75 G inject	4 in	L			in bed	C			
2	Telone II 12g inject	12 in				prebed	A	102	201	302
	Pic 150 lb inject	6-8 in				in bed	B			
	Vapam 75 G drip		L			drip	C			
3	Telone II 12g inject	12 in				prebed	A	103	202	303
	Pic 150 lb inject	6-8 in				in bed	B			
	Vapam 100 G drip		L			drip	C			

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Lot Code
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* 'Per area' calculations based on spray volume= 0.2359 gal/ac, mix size= 0.2359 gallons (mix size basis).
 * Product amount calculations increased 25 % for overage adjustment.

Trial Comments

OBJECTIVE: Determine the most effective application of Vapam.

1. Soil injecting Vapam with blades 4 inches apart provided greater visual control as well as less nutsedge emerging through the mulch.
2. When injecting Vapam, control was not significantly different between Vapam rates but there was a tendency for 100 gallons of Vapam drip injected to be less effective than soil injecting 75 gallons of Vapam.

GENERAL COMMENTS:

1. July 14: fumigants were applied, beds were formed and mulch was laid. Soil and air reached 94 degrees by mid day, moisture was ideal. PIC applied with super bedder plastic layer injecting 8 inches deep with 3 knives on a 32 inch bedtop. Vapam was either injected through the drip irrigation or injected 4 inches deep with the injection blades 4 inches apart. Telone II was injected 10-12 inches deep with a Yetter applicator.

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Weed Code	CYPRO	CYPRO	CYPRO	CYPRO	CYPRO	CYPRO	CYPRO		
Crop Code				through	through	through	through		
Rating Data Type	control	control	control	mulch	mulch	mulch	mulch		
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	11 DA-A	22 DA-A	28 DA-A	13 DA-A	19 DA-A	25 DA-A	32 DA-A		
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit	1	2	3	4	5		
		Unit	6	7					
1	Telone II 12g inject Pic 150 lb inject 6-8 in Vapam 75 G inject 4 in		96	89	91	12	21	24	30
2	Telone II 12g inject Pic 150 lb inject 6-8 in Vapam 75 G drip		87	82	78	33	48	64	133
3	Telone II 12g inject Pic 150 lb inject 6-8 in Vapam 100 G drip		91	82	84	19	27	40	77
LSD (P=.05)			8.3	8.4	7.4	9.3	19.1	26.6	31.2
Standard Deviation			3.7	3.7	3.3	4.1	8.4	11.7	13.7
CV			4.0	4.41	3.89	19.1	26.57	27.46	17.21

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

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GENERAL TRIAL INFORMATION

Study Director: Stanley Culpepper **Title:** Ext. Weed Science
Affiliation: Univ. of Georgia
Postal Code: 31794

Investigator: Stanley 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-14-05
Country: USA **Planned Completion Date:** _____
E-Longitude of LL Corner °: _____ **N-Latitude of LL Corner °:** _____
Altitude of LL Corner: _____ **Unit:** _____ **Angle y-axis to North °:** _____
Directions:

COOPERATOR/LANDOWNER

Cooperator: _____ **Country:** _____
Org: _____ **Phone No:** _____
Address 1: _____ **Fax No:** _____
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 AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	CYPRO	purple nutsedge	

Crop 1: none fallow **Variety:** _____
Planting Date: _____ **Planting Method:** _____
Rate: _____ **Depth:** _____ **Perennial Age:** _____
Row Spacing: _____ **Spacing Within Row:** _____ **Seed Bed:** _____
Soil Temperature: _____ **Soil Moisture:** _____ **Emergence Date:** _____

SITE AND DESIGN

Plot Width, Unit: 2.67 FT **Plot Length, Unit:** 65 FT **Reps:** 3
Site Type: research station
Tillage Type: plasticulture **Study Design:** RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

MAINTENANCE

Field Prep./Maintenance:

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

SOIL DESCRIPTION

% Sand: 94 % OM: 1.1 Texture: loamy sand
 % Silt: 2 pH: 6.3 Soil Name: _____
 % Clay: 4 CEC: _____ Fert. Level: _____

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

No.	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: _____

Closest Weather Station: _____ Distance: _____ Unit: _____

APPLICATION DESCRIPTION

	A
Application Date:	Jul-14-05
Time of Day:	6 pm
Application Method:	see
Application Timing:	comments
Applic. Placement:	injected
Air Temp., Unit:	94 F
% Relative Humidity:	42
Wind Velocity, Unit:	4 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	94 F
Soil Moisture:	ideal
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	none preplant
Stage Scale:	none
Height, Unit:	0 inch

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	CYPRO preplant
Stage Scale:	none
Density, Unit:	see data

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APPLICATION EQUIPMENT

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