

# University of Georgia

Nutsedge response to InLine in VIF or LDPE plastic at 2 bed widths.

Trial ID: Veg4-03  
Location: ponder farm

Study Dir.: Stanley Culpepper  
Investigator: Stanley Culpepper

## GENERAL TRIAL INFORMATION

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

## TRIAL LOCATION

**City:** TyTy **Trial Status:** completed  
**State/Prov.:** Ga **Trial Reliability:** fair  
**Postal Code:** 31794 **Initiation Date:** Feb-04-03  
**Country:** U.S.A.

**Conducted Under GLP (Y/N):** N **Conducted Under GEP (Y/N):** N

## CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	CYPZZ	80% CYPRO and 20% CYPES	

**Crop 1:** . **Variety:** .  
**Soil Temperature:** 59 F **Soil Moisture:** drip

## SITE AND DESIGN

**Plot Width, Unit:** 6 FT **Plot Length, Unit:** 75 FT **Reps:** 3  
**Site Type:** research station  
**Tillage Type:** plastic **Study Design:** RANDOMIZED COMPLETE BLOCK

## SOIL DESCRIPTION

**% Sand:** 94 **% OM:** 1.1 **Texture:** sand  
**% Silt:** 2 **pH:** 5.8 **Soil Name:** Tifton sandy loam  
**% Clay:** 4

**Overall Moisture Conditions:** .

## APPLICATION DESCRIPTION

A	
<b>Application Date:</b>	Feb-04-03
<b>Time of Day:</b>	11:00am
<b>Application Method:</b>	Broadcast
<b>Application Timing:</b>	fumigatio
<b>Applic. Placement:</b>	under pla
<b>Air Temp., Unit:</b>	68 F
<b>% Relative Humidity:</b>	48
<b>Wind Velocity, Unit:</b>	3 mph
<b>Dew Presence (Y/N):</b>	N
<b>Soil Temp., Unit:</b>	59 F
<b>Soil Moisture:</b>	moist
<b>% Cloud Cover:</b>	100

## CROP STAGE AT EACH APPLICATION

A	
<b>Crop 1 Code, Stage:</b>	. .
<b>Stage Scale:</b>	.

## WEED STAGE AT EACH APPLICATION

A	
<b>Weed 1 Code, Stage:</b>	CYPZZ PRE
<b>Stage Scale:</b>	.
<b>Density, Unit:</b>	. .

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**APPLICATION EQUIPMENT**

	<b>A</b>
<b>Appl. Equipment:</b>	see comme

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Weed Code	Actual CYPZZ	Actual CYPZZ	Actual CYPZZ	Actual CYPZZ	EQUAL CYPZZ	EQUAL CYPZZ	EQUAL CYPZZ	EQUAL CYPZZ	
Crop Code	plants	plants	plants	plants	plants	plants	plants	plants	
Rating Data Type	#/plot	#/plot	#/plot	#/plot	#/plot	#/plot	#/plot	#/plot	
Rating Unit									
Rating Date	Apr-03-03	Apr-21-03	May-07-03	Jun-26-03	Apr-03-03	Apr-21-03	May-07-03	Jun-26-03	
Trt-Eval Interval	58 DA-A	76 DA-A	92 DA-A	92 DA-A	58 DA-A	76 DA-A	92 DA-A	92 DA-A	
Trt Treatment	Rate								
No. Name	Unit	1	2	3	4	6	7	8	9
1 InLine VIF 32" (35 G)		0.3	2.7	8.3	24.0	0.3	2.7	8.3	24.0
2 InLine LDPE 32" (35 G)		4.7	4.7	19.7	43.7	4.7	4.7	19.7	43.7
3 InLine VIF 17" (35 G)		0.0	0.3	8.3	36.7	0.0	0.6	15.6	68.9
4 InLine LDPE 17" (35 G)		2.7	5.0	36.3	83.3	5.0	9.2	68.3	156.6
5 No fum VIF		24.3	31.0	59.3	67.7	24.3	31.0	59.3	67.7
6 No fum LDPE		18.3	27.7	35.7	80.3	18.3	27.7	35.7	80.3
LSD (P=.05)		3.84	8.69	36.01	27.06	3.89	8.94	45.51	34.86
Standard Deviation		2.11	4.78	19.80	14.87	2.14	4.91	25.02	19.16
CV		25.16	40.18	70.84	26.58	24.36	38.88	72.53	26.06
Bartlett's X2		11.531	9.979	6.761	4.286	9.683	6.585	7.691	5.22
P(Bartlett's X2)		0.021*	0.076	0.239	0.509	0.046*	0.253	0.174	0.39

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

### Trial Comments

GENERAL COMMENTS: Plastic mulch laid with super bedder plastic layer. Inline applied 1 day after laying plastic.

#### RESULTS:

- 1) At 58 DAT, fewer nutsedge emerged through VIF as compared to LDPE film. Additionally, Inline reduced the number of nutsedge emerged through plastic by at least 72%.
- 2) Few differences were noted at 76 or 92 DAT.
- 3) At 140+ days after laying plastic, a trend for fewer nutsedge in VIF compared to LDPE film were noted. Impacts from Inline were quite variable.