#### Pusley response to burndown herbicide options.

Trial ID: C36-03 Study Director:

Location: Jones farm Investigator: Stanley Culpepper

General Trial Information

Study Director: Stanley Culpepper Title: Ext. weed science

Affiliation: University of Georgia

Postal Code: 31794

**Affiliation:** University of Georgia

Postal Code: 31794

Trial Location

City:TiftonTrial Status:completedState/Prov.:GaTrial Reliability:goodPostal Code:31794Initiation Date:May-06-03

Country: U.S.A.

Directions:

Objectives:

Conclusions:

Crop Description

Variety: DP 555 B/RR

BBCH Scale: BCOT Planting Date: May-06-03

Depth, Unit: 0.5 in

Row Spacing, Unit:36inchSpacing Within Row, Unit:4inchSeed Bed:flatSoil Temperature, Unit:74FSoil Moisture:moistEmergence Date:May-11-03

Pest Description

Pest 1 Type: W Code: RCHSC Richardia scabra

Common Name: Pusley, Florida

Pest 2 Type: W Code: AMAPA Amaranthus palmeri

Common Name: Amaranth, Palmer

Site and Design

Plot Width, Unit: 6 FT Site Type: On farm
Plot Length, Unit: 25 FT Tillage Type: Strip tillage

Replications: 4 Study Design: Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

**% Sand:** 94 **% OM:** 0.59 **Texture:** sand

% Silt: 4 pH: 5.8 Soil Name: Tifton sandy loam

% Clay: 2

Application Description

	A	В		
Application Date:	May-25-03 May-06-03			
Time of Day:	8:30am	9:00am		
Application Method:	Broadcast	Broadcast		
Application Timing:	PRE	2"RCHSC		
Application Placement:	on soil	overtop		
Applied By:	Culpepper	Culpepper		
Air Temperature, Unit:	79 F	78 F		
% Relative Humidity:	76	68		
Wind Velocity, Unit:	0 mph	1 mph		
Dew Presence (Y/N):	У	n		
Soil Temperature, Unit:	74 F	80 F		
Soil Moisture:	moist	perfect		
% Cloud Cover:	100 70			

Crop Stage At Each Application

		A		В
Crop 1 Code, BBCH Scale:	GOSHI	BCOT	GOSHI	BCOT
Stage Scale Used:	DESC		DESC	
Stage Majority, Percent:	PRE	100	V3	100
Stage Minimum, Percent:	PRE	100	V3	100
Stage Maximum, Percent:	PRE	100	V3	100
Diameter, Unit:	0	in	0.	in
Height, Unit:	0	in	4	in
Height Minimum, Maximum:	0	0	3.5	4.5

Pest Stage At Each Application

	A		В	
Pest 1 Code, Disc., Scale:	RCHSC	W DESC	RCHSC	W DESC
Stage Majority, Percent:	PRE	100	2 lf	50
Stage Minimum, Percent:	PRE	100	cot	50
Stage Maximum, Percent:	PRE	100	2 lf	50
Diameter, Unit:	0.	in	0.	in
Height, Unit:	0	in	1	in
Height Minimum, Maximum:	0	0	0.5	1.5
Density, Unit:	0	ydsq	25	ydsq
Coverage, Unit:	75	용	100	용
Pest 2 Code, Disc., Scale:	AMAPA	W	AMAPA	W DESC
Stage Majority, Percent:	PRE	100	9 leaf	25
Stage Minimum, Percent:	PRE	100	7 leaf	25
Stage Maximum, Percent:	PRE	100	12leaf	25
Diameter, Unit:	0.	in	0.	in
Height, Unit:	0	in	7	in
Height Minimum, Maximum:	0	0	5	9
Density, Unit:	0	ydsq	12	ydsq
Coverage, Unit:	75	୪	100	olo

## Application Equipment

	A		В	
Appl. Equipment:	backpack		backpack	
Operating Pressure:	22		22	
Pressure Unit:	psi		psi	
Nozzle Type:	flat fan		flat fan	
Nozzle Size:	11002		11002	
Nozzle Spacing, Unit:	18	inch	18	inch
Nozzles/Row:	2		2	
Boom Length, Unit:	4.5	feet	4.5	feet
Boom Height, Unit:	15	inch	15	inch
Ground Speed, Unit:	3	mph	3	mph
Carrier:	water		water	
Spray Volume:	14.8		14.8	
Volume Unit:	GPA		GPA	
Propellant:	CO2		CO2	
Tank Mix (Y/N):	Y		Y	

### Pusley response to burndown herbicide options.

Trial ID: C36-03 Study Director:

Location: Jones farm Investigator: Stanley Culpepper

Location: Jone	s iar	m		TIIV	restigator
Pest Code				AMAPA	RCHSC
Crop Code			GOSHI		
BBCH Scale			BCOT		
Rating Date			Jun-04-03	Jun-04-03	Jun-04-03
Rating Data Type			Injury	control	control
Rating Unit			percent	percent	percent
Days After Last Ap	plic.		29	29	29
Trt-Eval Interval			6 DA-A		
Trt Treatment		Rate			
No. Name	Rate		1	2	3
1 Staple	8.0	oz/a	0.0	0.0	0.0
2 Staple		oz/a	7.5	100.0	100.0
WeatherMax	21.3	oz/a			
3 Staple	8.0	oz/a	6.5	100.0	100.0
WeatherMax		oz/a			
4 Staple	8.0	oz/a	5.0	100.0	100.0
WeatherMax		oz/a			
5 Staple		oz/a	98.0	100.0	100.0
WeatherMax		oz/a			
Valor		oz/a			
NIS		% v/v			
6 Staple		oz/a	99.0	100.0	98.8
WeatherMax		oz/a			
Aim	_	oz/a			
NIS		% v/v			
7 Staple		oz/a	92.8	100.0	96.5
WeatherMax		oz/a			
2,4-d		pt/a			
8 Staple		oz/a	8.0	100.0	100.0
WeatherMax	21.3	oz/a			
LSD (P=.05)			5.75	0.00	3.83
Standard Deviation	1		3.91	0.00	2.60
CV			9.87	0.0	3.0
Bartlett's X2			5.016	0.0	4.027
P(Bartlett's X2)			0.542		0.045*

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

## **Trial Comments**

OBJECTIVE: Determine an effective option for the control of emerged Florida pusley.

GENERAL COMMENTS: Staple applied PRE provided 60 to 70% control of pusley but an intense population was still present. Staple was applied PREto remove most other weeds. Staple PRE provided greater than 90% control of Palmer.

- 1) Glyphosate following Staple PRE provided complete control of pusley at 10 d after POST application; thus, the addition of other herbicides with glyphosate could not be detected.

  2) All systems provided complete control of Palmer at 10 d after the POST application.

## COTTON RESPONSE:

- 1) Staple applied PRE stunted cotton growth less than 10% at 29 DAT.
- 2) Aim, Valor, or 2,4-D mixed with glyphosate and applied topically controlled cotton at least 93%.