Winter weed and cotton response to Nimble applied preplant.

Trial ID: C34-07 Protocol ID:

Location: Ponder Farm Study Director: Stanley Culpepper Investigator: Stanley Culpepper

Reps: 4 Plots: 12 by 25 feet

Spray vol: 14.8 gal/ac Mix size: 2 liters (min 1.5434)

	Treatment	Form I	Form	Form			Growth			Plot N	lo. By I	Rep		
No.	Name	Conc I	Unit	Type	Rate	Unit	Stage	Code	to Measure	1	2	3	4	
1	Nimble	75		WG	0.3	OZ/A	PREPLANT	Α	0.3036 g/mx	101	205	304	403	
	COC			L	1	% V/V	PREPLANT	Α	20.0 ml/mx					
2	Nimble	75		WG	0.5	OZ/A	PREPLANT	Α	0.506 g/mx	102	203	301	405	
	COC			L	1	% V/V	PREPLANT	Α	20.0 ml/mx					
3	Nimble	75		WG	0.5	OZ/A	PREPLANT	Α	0.506 g/mx	103	201	303	402	
	GLYFOS X-TRA	4		L	1	QT/A	PREPLANT	Α	33.78 ml/mx					
4	Harmony Extra	75		WG	0.3	OZ/A	PREPLANT	Α	0.3036 g/mx	104	202	305	404	
	COC			L	1	% V/V	PREPLANT	Α	20.0 ml/mx					
5	Untreated control							•		105	204	302	401	

Sort Order: Treatment

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

-						
	Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
	1.645	g	Nimble	75	WG	
	74.992	ml	COC		L	
	42.225	ml	GLYFOS X-TRA	4	L	
	0.380	q	Harmony Extra	75	WG	

<sup>&#</sup>x27;Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 2 liters (mix size basis).

### **Trial Comments**

OBJECTIVE: Compare burndown and cotton response to Nimble herbicide applied preplant.

### COTTON RESPONSE:

- 1. At 17 d after applying burndown, cotton was planted.
- 2. No visual injury was noted 14, 30, or 58 d after planting.
- 3. Plant stands were taken at 18 d after planting from 1 row by 10 feet in length. Plant stands ranged from 20.3 to 23 plants with no impact by treatments.

### BURNDOWN WEED RESPONSE:

Wild Radish

- 1. Radish was extremely large at time of application.
- 2. Nimble and Harmony Extra provided poor but similar control.
- 3. The glyphosate + Nimble mixture provided complete control.

#### Wheat

1. Only glyphosate impacted the wheat with complete control.

#### Henbit

1. All preplant burndown programs provided complete control of henbit.

### COTTON YIELDS:

<sup>\*</sup> Product amount calculations increased 25 % for overage adjustment.

<sup>\* &#</sup>x27;Per volume' calculations use spray volume= 14.8 gal/ac, mix size= 2 liters.

### Mar-11-08 (C34-07) Trial Comments Page 2 of 9

## **University of Georgia**

- 1. Plot yields were high nearing 3 bales/A and extremely uniform with a CV of only 17.
- 2. No treatment impacted yield. Keep in mind, glyphosate plus a PRE mixture was applied over the entire trial area controlling all emerged weeds so cotton tolerance to Nimble could be evaluated.

### GENERAL COMMENTS:

May 1: Roundup WeatherMax at 22 oz/A + Prowl 1 qt + Cotoran 1 qt applied PRE over trial area.

June 1: Roundup WeatherMax at 22 oz/A applied over trial area.

July 1: Roundup WeatherMax at 22 oz/A applied over trial area.

Winter weed and cotton response to Nimble applied preplant.

Trial ID: C34-07 Protocol ID:

Location: Ponder Farm Study Director: Stanley Culpepper Investigator: Stanley Culpepper

W Weed TRZAW May-02-07
May-02-07
May-02-07
May-02-07
%
control
19
19 DA-A
8
0 b
0 b
99 a
0 b
0 b
0.0
0.0
0.0
0.0

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

Pest Type			W Weed		
Pest Code		LAMAM	SEED	SEED	
Crop Code			GOSHI	GOSHI	
BBCH Scale				BCOT	BCOT
Rating Date			Apr-23-07	Aug-01-07	Aug-01-07
Rating Data Type			%	yield	yield
Rating Unit			control	lb/plot	lb/A
Days After First/Last A	pplic.		10	110	110
Trt-Eval Interval			10 DA-A	110 DA-A	110 DA-A
ARM Action Codes					TY1
Number of Decimals					1
Trt Treatment		Rate			
No. Name	Rate	Unit	9	10	11
1 Nimble	0.3	OZ/A	99 a	12 a	3403.5 a
COC	1	% V/V			
2 Nimble	0.5	OZ/A	99 a	11 a	3326.5 a
COC	1	% V/V			
3 Nimble	0.5	OZ/A	99 a	11 a	3239.4 a
GLYFOS X-TRA	1	QT/A			
4 Harmony Extra	0.3	OZ/A	99 a	12 a	3420.9 a
COC	1	% V/V			
5 Untreated contro			0 b	11 a	3222.0 a
LSD (P=.05)		0.0	3.0	870.81	
Standard Deviation		0.0	1.9	565.17	
CV		0.0	17.01	17.01	
Bartlett's X2			0.0	0.554	0.554
P(Bartlett's X2)				0.968	0.968

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

Column 11: TY1 = 290.4\*[C10]

Winter weed and cotton response to Nimble applied preplant. Trial ID: C34-07 Protocol ID: Location: Ponder Farm Study Director: Stanley Culpepper Investigator: Stanley Culpepper General Trial Information Title: Ext. Weed Science Study Director: Stanley Culpepper **Affiliation:** Univ. of Georgia E-mail: \_\_\_\_\_ Postal Code: 31794 Investigator: Stanley Culpepper Title: Ext. Weed Science **Affiliation:** Univ. of Georgia Postal Code: 31794 E-mail: \_\_\_\_\_ Keywords: Trial Location Ponder completed City: Trial Status: Trial Reliability: Initiation Date: State/Prov.: GA good Postal Code: \_\_\_\_ Apr-13-07 Planned Completion Date: \_\_\_\_\_ USA Country: \_ -Latitude of LL Corner °: \_\_\_\_ \_ -Longitude of LL Corner °: \_\_\_\_\_ Altitude of LL Corner: \_\_\_\_ Unit: \_\_\_\_ Angle y-axis to North °: \_\_\_\_\_ Map Reference: \_\_\_\_\_ Directions: Conducted Under GLP: \_ Official Trial Code: \_\_\_\_\_ Conducted Under GEP: \_ Other Trial Code: Guideline Description Objectives: Conclusions: Cooperator/Landowner Cooperator: Country: Organization: \_\_\_\_\_ Phone No: Address 1: Fax No: Address 2: City: State/Prov: Postal Code: \_\_ E-mail:

Crop	Description
Crop 1: GOSHI Gossypium hirsutum	Cotton, American upland
Variety: Widestrike 485	Description: Widestrike 485 WF
BBCH Scale: BCOT	Planting Date: May-01-07
Planting Method: hill drop	Rate, Unit: 2 8 in
Depth, Unit: 0.5 in	Perennial Age, Unit:
Row Spacing, Unit: 36 in	Spacing Within Row, Unit: 8 in
Seed Bed: strip till	Soil Temperature, Unit: 84 F
Soil Moisture: moist	Emergence Date: May-06-07
Harvest Date:	Harvest Equipment:
Harvested Width, Unit:	Harvested Length, Unit:
% Standard Moisture:	Moisture Meter:
Weighing Equipment:	

				Pest Description
Pest	1	Type: W	Code:	RAPRA
		Common	Name:	Raphanus raphanistrum
		Descri	ption:	Wild Radish
Pest	2	Type: W	Code:	TRZAW Winter wheat
		Common	Name:	Triticum aestivum (winter)
		Descri	ption:	
Pest	3	Type: W	Code:	LAMAM Lamium amplexicaule
		Common	Name:	Lamium amplexicaule
		Descri	ption:	

Site and Design

Plot Width, Unit: 12 FT Site Type: Ponder Farm
Plot Length, Unit: 25 FT Tillage Type: Strip Tillage

Replications: 4 Study Design: Randomized Complete Block

% Slope: \_\_\_\_ Soil Drainage: \_ \_\_\_\_

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

#### Maintenance

		Maintenance 1		Form	Form		Rate	Tank
No.	Date	Treatment Name	Conc	Unit	Туре	Rate	Unit	Mix
1.								

Comment:

Field Prep./Maintenance:

#### Soil Description

 Description Name:

 % Sand: 94
 % OM: 1.3
 Texture: sand

 % Silt: 2
 pH: 6.4
 Soil Name: loamy sand

 % Clay: 4
 CEC: \_\_\_\_
 Fert. Level: \_\_\_\_

Analyzed By:

### Additional Measured Elements

11ddI CIOIIdI	MCGBGICG DICHICI	105
Element	Quantity	Unit

### Moisture Conditions

Overair	Moisture Conditions:	IIIIgatta		
Closest	Weather Station.		Digtance.	IIni+•

	Date	Time	Amount	Unit	Туре	Interval	Unit
1.							

### Application Description

	Application
	A
Application Date:	Apr-13-07
Time of Day:	7:00 pm
Application Method:	broadcast
Application Timing:	preplant
Application Placement:	overtop
Applied By:	Culpepper
Air Temperature, Unit:	87 F
% Relative Humidity:	35
Wind Velocity, Unit:	0 mph
Wind Direction:	
Dew Presence (Y/N):	N
Water Hardness:	
Soil Temperature, Unit:	90 F
Soil Moisture:	dry
% Cloud Cover:	0
Next Rain Occurred On:	

### Crop Stage At Each Application

	A	
Crop 1 Code, BBCH Scale:	GOSHI BCOT	
Stage Scale Used:	ВВСН	
Stage Majority, Percent:	preplant 100	
Stage Minimum, Percent:	preplant 100	
Stage Maximum, Percent:	preplant 100	
Diameter, Unit:	0 in	
Height, Unit:	0 in	
Height Minimum, Maximum:	0 0	

Pest Stage At Each Application

	Febe	stage At
		A
Pest 1 Code, Disc., Scale:	RAPRA	W .
Stage Majority, Percent:		0
Stage Minimum, Percent:		0
Stage Maximum, Percent:		0
Diameter, Unit:	0.	yd
Height, Unit:	30	in
Height Minimum, Maximum:	24	36
Density, Unit:	3	ydsq
Coverage, Unit:		-
Pest 2 Code, Disc., Scale:	TRZAW	W .
Stage Majority, Percent:	seedhe	100
Stage Minimum, Percent:	seedhe	100
Stage Maximum, Percent:	seedhe	100
Diameter, Unit:		
Height, Unit:	30	in
Height Minimum, Maximum:	30	30
Density, Unit:	75	lb/A
Coverage, Unit:		
Pest 3 Code, Disc., Scale:	LAMAM	₩ .
Stage Majority, Percent:		0
Stage Minimum, Percent:		0
Stage Maximum, Percent:		0
Diameter, Unit:	0.	yd
Height, Unit:	4	in
Height Minimum, Maximum:	3	5
Density, Unit:	3	ydsq
Coverage, Unit:		

Application Equipment

	Applicacion Equipme		
	A		
Appl. Equipment:	backpack		
Operating Pressure, Unit:	24 psi		
Nozzle Type:	flat fan		
Nozzle Size:	11002		
Nozzle Spacing, Unit:	18 in		
Nozzles/Row:	2		
Nozzle Calibration, Unit:			
Band Width, Unit:			
Boom ID:			
Boom Length, Unit:	4.5 ft		
Boom Height, Unit:	15 in		
Ground Speed, Unit:	3 mph		
Incorporation Equip.:			
Hours to Incorp.:			
Incorp. Depth, Unit:			
Carrier:	water		
Spray Volume, Unit:	14.8 GAL/AC		
Mix Size, Unit:			
Spray pH:			
Propellant:	CO2		
Tank Mix (Y/N):			

Equipment Comment:

Trt No	Treatment	Application	Comment
Date	Ву	Notes	5
Date	By	Devia	ations

Reasons: