

2001

Weed Science Research

Report

William K. Vencill  
University of Georgia

## Introduction

This annual report is a partial summary of research conducted in 2001 by the Weed Science Program of William Vencill, Crop and Soil Sciences Department, University of Georgia, Athens. This data is provided to extension personnel, industry cooperators, and researchers who have interest in the experiments conducted. ***None of the information in this report is to be duplicated, published, or used in any manner without the consent of the researcher.*** Send all requests to William Vencill, 3111 Miller Plant Sciences, Athens, Georgia 30602 or call 706-542-3117. These reports are from the Agricultural Research Manager Program (ARM).

The author expresses appreciation to all cooperators who were helpful in initiation of this work. I would like to recognize the following individuals for their contributions.

I want to thank Mike Mathis, my technician who coordinates field programs and program graduate students, Jay Ferrell, and Kacee Johnson for their assistance.

I also want to express my appreciation to Branch Experiment Station personnel who were extremely cooperative and integral part of this program.

Plant Sciences Farm - Athens - Jack Rogers and Richard Smith

SW Georgia Branch Exp Stn - Plains - Stan Jones

## Index

### Corn

01-A-1	Herbicide Resistant Corn Hybrid Test	1
01-A-2	Acetanilide Weed Control in RR Corn	5
01-A-3	Texas Panicum Time of Removal in RR Corn	11
01-A-4	Weed Control in Strip-Till Corn	16

### Cotton

01-A-7	Valor Layby in Cotton	20
01-A-8	New Generation Roundup Tank Mix/Premix Partners	25
01-A-9	Staple Plus Programs for RR Cotton	34
01-A-10	Staple in PRE or POST Programs with CGA 362622	44
01-P-1	Valor Layby in Cotton	59
01-P-2	Layby Options in RR Cotton	65
01-P-4	Effect of Nozzle Tips on Valor Layby in Cotton	83

### Soybean

01-A-12	Flumioxazin/Glyphosate Premix for Burndown in Soybean	47
01-A-20	Adjuvant Impacts on Roundup UltraMax	52

### Peanut

01-P-3	Peanut Weed Management Systems	74
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(2001-A-1)

# University of Georgia

## Herbicide Resistant Corn Hybrid Test

Trial ID: 2001-A-1      Study Dir.: Prostko  
Location: Athens      Investigator: William K. Vencill

### GENERAL TRIAL INFORMATION

**Study Director:** Prostko      **Title:** \_\_\_\_\_  
**Affiliation:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_

**Investigator:** William K. Vencill      **Title:** \_\_\_\_\_  
**Affiliation:** University of Georgia  
**Postal Code:** 30602

### TRIAL LOCATION

**City:** Athens      **Trial Status:** Interim  
**State/Prov.:** Ga.      **Trial Reliability:** \_\_\_\_\_  
**Postal Code:** 30602      **Initiation Date:** Apr-23-01  
**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.	_____	_____

**Crop 1:** \_\_\_\_\_      **Variety:** Pioneer, Dekalb, Garst, NK  
**Planting Date:** Apr-23-01      **Planting Method:** 4-Row planter  
**Rate:** 4      FT      **Depth:** 1      IN      **Perennial Age:** \_\_\_\_\_  
**Row Spacing:** 38      IN      **Seed Bed:** Chiseled  
**Soil Temperature:** 80      F      **Soil Moisture:** Dry      **Emergence Date:** Apr-30-01

**SITE AND DESIGN**

**Plot Width, Unit:** 10 FT

**Plot Length, Unit:** 0 FT

**Reps:** 3

**Site Type:** \_\_\_\_\_

**Tillage Type:** Conventional

**Study Design:** SPLIT-PLOT

# University of Georgia

**Trial Initiation Comments:**

Previous Crops	Previous Pesticides	Year
1. Corn	_____	_____

**MAINTENANCE**

**Field Prep./Maintenance:**

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

**SOIL DESCRIPTION**

% Sand: 76	% OM: 0.77	Texture: Sandy Loam
% Silt: 16	pH: 5.9	Soil Name: Cecil Sandy Loam
% Clay: 8	CEC: _____	Fert. Level: Good

**ADDITIONAL MEASURED ELEMENTS**

Element	Quantity	Unit
_____	_____	_____

**MOISTURE CONDITIONS**

Date	Time	Amount	Unit	Type	Interval	Unit
1.	_____	_____	_____	_____	_____	_____

Overall Moisture Conditions: Dry

Closest Weather Station: Plant Science Farm UGA

Distance: 0.5

Unit: MI

**APPLICATION DESCRIPTION**

A

Application Date: May-09-01  
 Time of Day: 10:30 AM  
 Application Method: BKPK  
 Application Timing: Post  
 Applic. Placement: Broadcast  
 Air Temp., Unit: 76 F  
 % Relative Humidity: 50  
 Wind Velocity, Unit: 2 MPH  
 Dew Presence (Y/N): N  
 Water Hardness: \_\_\_\_\_  
 Soil Temp., Unit: 78 F  
 Soil Moisture: Dry  
 % Cloud Cover: 40

**CROP STAGE AT EACH APPLICATION**

A

Crop 1 Code, Stage: \_\_\_\_\_  
 Stage Scale: \_\_\_\_\_  
 Height, Unit: \_\_\_\_\_

# University of Georgia

## WEED STAGE AT EACH APPLICATION

A

Weed 1 Code, Stage: \_\_\_\_\_  
 Stage Scale: \_\_\_\_\_  
 Density, Unit: \_\_\_\_\_

## APPLICATION EQUIPMENT

A

Appl. Equipment: BKPK  
 Operating Pressure: 30 PSI  
 Nozzle Type: DG  
 Nozzle Size: 11003VS  
 Nozzle Spacing, Unit: 20 IN  
 Nozzles/Row: 1  
 Band Width, Unit: \_\_\_\_\_  
 Boom Length, Unit: 6 FT  
 Boom Height, Unit: 14 IN  
 Ground Speed, Unit: 3 MPH  
 Incorporation Equip.: \_\_\_\_\_  
 Hours to Incorp.: \_\_\_\_\_  
 Incorp. Depth, Unit: \_\_\_\_\_  
 Carrier: Water  
 Spray Volume, Unit: 20 GPA  
 Spray pH: \_\_\_\_\_  
 Propellant: CO2  
 Tank Mix (Y/N): Y

Trt No Treatment Application Comment

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# University of Georgia

## Herbicide Resistant Corn Hybrid Test

Trial ID: 2001-A-1      Study Dir.: Prostko  
 Location: Athens      Investigator: William K. Vencill

Weed Code	Yield	Yield
Part Rated	ear	ear
Rating Data Type	yield	yield
Rating Unit	lb/plot	Bu/A
Rating Date	Aug-29-01	Aug-29-01
ARM Action Codes		TY3
# Subsamples, Dec.		1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	Yield	Yield
1	Pioneer 3163 Treated							14.40	208.7
2	Pioneer 3163 Untreated							13.83	200.5
3	Pioneer 34B29-LL Treated							12.43	180.2
4	Pioneer 34B29-LL Untreated							12.73	184.6
5	Pioneer 34B28-CL Treated							14.13	204.9
6	Pioneer 34B28-CL Untreated							14.83	215.0
7	DK 662-RR Treated							14.97	217.0
8	DK 662-RR Untreated							12.87	186.5
9	Garst 8222-IT Treated							14.70	213.1
10	Garst 8222-IT Untreated							13.00	188.5
11	Garst 8349-RR Treated							12.03	174.4
12	Garst 8349-RR Untreated							11.83	171.5
13	NK 83Z8-LL Treated							12.63	183.1
14	NK 83Z8-LL Untreated							12.87	186.5
15	NK N79-L3-LL Treated							13.70	198.6
16	NK N79-L3-LL Untreated							14.63	212.1
LSD (P=.05)								2.705	39.22
Standard Deviation								1.623	23.52
CV								12.04	12.04
Bartlett's X2								28.871	28.869
P(Bartlett's X2)								0.017*	0.017*

# University of Georgia

## Acetanilide Weed Control in RR Corn

Trial ID: 2001-A-2  
Location: Athens

Study Dir.: Vencill  
Investigator: William K. Vencill

### GENERAL TRIAL INFORMATION

**Study Director:** Vencill **Title:** \_\_\_\_\_  
**Affiliation:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_

**Investigator:** William K. Vencill **Title:** \_\_\_\_\_  
**Affiliation:** University of Georgia  
**Postal Code:** 30602

### TRIAL LOCATION

**City:** Athens **Trial Status:** Interim  
**State/Prov.:** Ga. **Trial Reliability:** \_\_\_\_\_  
**Postal Code:** 30602 **Initiation Date:** Apr-27-01  
**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. \_\_\_\_\_

**Crop 1:** \_\_\_\_\_ **Corn**                                      **Variety:** DK662RR  
**Planting Date:** Apr-27-01                      **Planting Method:** 4-Row planter  
**Rate:** 4    **FT**                      **Depth:** 1    **IN**                      **Perennial Age:** \_\_\_\_\_  
**Row Spacing:** 30    **IN**                      **Seed Bed:** Chiseled  
**Soil Temperature:** 72    **F**    **Soil Moisture:** Dry                      **Emergence Date:** May-04-01

### SITE AND DESIGN

**Plot Width, Unit:** 10    **FT**                      **Plot Length, Unit:** 20    **FT**                      **Reps:** 3  
**Site Type:** \_\_\_\_\_  
**Tillage Type:** Conventioal                      **Study Design:** RANDOMIZED COMPLETE BLOCK



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**Trial Initiation Comments:**

<b>Previous Crops</b>	<b>Previous Pesticides</b>	<b>Year</b>
1. Corn	_____	00

**MAINTENANCE**

**Field Prep./Maintenance:**

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

**SOIL DESCRIPTION**

% Sand: 76	% OM: 0.77	Texture: Sandy Loam
% Silt: 16	pH: 5.9	Soil Name: Cecil Sandy Loam
% Clay: 8	CEC: _____	Fert. Level: _____

**ADDITIONAL MEASURED ELEMENTS**

Element	Quantity	Unit
_____	_____	_____

**MOISTURE CONDITIONS**

Date	Time	Amount	Unit	Type	Interval	Unit
1.	_____	_____	_____	_____	_____	_____

Overall Moisture Conditions: Dry

Closest Weather Station: UGA Plant Science Farm

Distance: 0.5

Unit: MI

**APPLICATION DESCRIPTION**

	A	B
Application Date:	Apr-27-01	May-14-01
Time of Day:	12:00 PM	11:15 AM
Application Method:	BKPK	BKPK
Application Timing:	PRE	Post
Applic. Placement:	Broadcast	Broadcast
Air Temp., Unit:	72 F	74 f
% Relative Humidity:	70	33
Wind Velocity, Unit:	3 MPH	4 MPH
Dew Presence (Y/N):	N	N
Water Hardness:	_____	_____
Soil Temp., Unit:	74 F	78 F
Soil Moisture:	Dry	MOIST
% Cloud Cover:	0	0

**CROP STAGE AT EACH APPLICATION**

	A	B
Crop 1 Code, Stage:	_____	_____
Stage Scale:	_____	_____
Height, Unit:	_____	_____

# University of Georgia

## WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	_____	_____
Stage Scale:	_____	_____
Density, Unit:	_____	_____

## APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BKPK	BKPK
Operating Pressure:	30 PSI	30 PSI
Nozzle Type:	DG	DG
Nozzle Size:	11003	11003
Nozzle Spacing, Unit:	20 IN	20 IN
Nozzles/Row:	1	1
Band Width, Unit:	_____	_____
Boom Length, Unit:	6 FT	6 FT
Boom Height, Unit:	14 IN	14 IN
Ground Speed, Unit:	3 MPH	3 MPH
Incorporation Equip.:	_____	_____
Hours to Incorp.:	_____	_____
Incorp. Depth, Unit:	_____	_____
Carrier:	WATER	WATER
Spray Volume, Unit:	20 GPA	20 GPA
Spray pH:	_____	_____
Propellant:	CO2	CO2
Tank Mix (Y/N):	N	Y

Trt No Treatment Application Comment

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# University of Georgia

## Acetanilide Weed Control in RR Corn

Trial ID: 2001-A-2

Study Dir.: Vencill

Location: Athens

Investigator: William K. Vencill

Weed Code	inj	ipohe	sorha	xanst
Rating Unit				
Rating Date	May-22-01	May-22-01	May-22-01	May-22-01
ARM Action Codes				
# Subsamples, Dec.				

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code				
01	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	6.7	90.0	93.3	97.7
	Harness	7	EC	1.3	LB A/A	PRE	B				
	Atrazine	4	SC	1.5	LB A/A	POST	C				
	COC	1	SO	1	QT/A	POST	C				
02	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	3.3	88.3	91.7	96.0
	Harness Xtra	6	SE	2.7	LB A/A	PRE	B				
03	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	5.0	89.7	95.2	99.4
	Degree	3.8	CS	1.4	LB A/A	PRE	B				
	Atrazine	4	SC	1.5	LB A/A	POST	C				
	COC	1	SO	1	QT/A	POST	C				
04	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	5.0	87.2	95.2	99.4
	Degree Xtra	4.04	CS	2.4	LB A/A	PRE	B				
05	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	3.3	91.7	94.0	99.0
	Degree	3.8	CS	1.4	LB A/A	PRE	B				
	Roundup UltraMax	3.7	SL	0.75	LB AE/A	POST	C				
06	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	6.7	90.0	96.3	98.7
	Degree Xtra	4.04	CS	2.4	LB A/A	PRE	B				
	Roundup UltraMax	3.7	SL	0.75	LB AE/A	POST	C				
07	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	3.3	91.7	94.7	97.7
08	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	12.5	89.7	99.2	99.4
	Micro-Tech	4	ME	2.5	LB A/A	PRE	B				
	Atrazine	4	SC	1.5	LB A/A	POST	C				
	COC	1.0	SO	1	QT/A	POST	C				
09	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	3.3	90.0	94.7	99.0
	Bullet	4	SC	4	LB A/A	PRE	B				
10	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	3.3	95.0	93.0	96.0
	Permit	75	DF	0.031	LB A/A	POST	C				
	Clarity	4	SL	0.125	LB A/A	POST	C				
	Induce	1	SO	0.25	% V/V	POST	C				
LSD (P=.05)								10.52	9.77	6.24	4.99
Standard Deviation								6.04	5.61	3.59	2.87
CV								115.12	6.21	3.79	2.92
Bartlett's X2								0.445	3.284	1.793	7.377
P(Bartlett's X2)								1.00	0.656	0.938	0.117

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Weed Code xanst ipohe casob sorha  
 Rating Unit  
 Rating Date Jun-06-01 Jun-06-01 Jun-06-01 Jun-06-01  
 ARM Action Codes  
 # Subsamples, Dec.

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code				
01	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	96.7	94.3	91.7	81.7
	Harness	7	EC	1.3	LB A/A	PRE	B				
	Atrazine	4	SC	1.5	LB A/A	POST	C				
	COC	1	SO	1	QT/A	POST	C				
02	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	97.0	81.7	88.3	90.0
	Harness Xtra	6	SE	2.7	LB A/A	PRE	B				
03	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	97.7	86.8	90.1	87.8
	Degree	3.8	CS	1.4	LB A/A	PRE	B				
	Atrazine	4	SC	1.5	LB A/A	POST	C				
	COC	1	SO	1	QT/A	POST	C				
04	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	95.7	91.8	94.1	92.8
	Degree Xtra	4.04	CS	2.4	LB A/A	PRE	B				
05	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	97.0	89.3	89.3	92.7
	Degree	3.8	CS	1.4	LB A/A	PRE	B				
	Roundup UltraMax	3.7	SL	0.75	LB AE/A	POST	C				
06	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	96.0	88.3	93.3	91.0
	Degree Xtra	4.04	CS	2.4	LB A/A	PRE	B				
	Roundup UltraMax	3.7	SL	0.75	LB AE/A	POST	C				
07	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	95.3	91.0	91.0	78.3
08	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	98.7	82.8	87.6	87.8
	Micro-Tech	4	ME	2.5	LB A/A	PRE	B				
	Atrazine	4	SC	1.5	LB A/A	POST	C				
	COC	1.0	SO	1	QT/A	POST	C				
09	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	97.3	93.0	94.7	83.3
	Bullet	4	SC	4	LB A/A	PRE	B				
10	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	94.3	86.7	91.7	91.7
	Permit	75	DF	0.031	LB A/A	POST	C				
	Clarity	4	SL	0.125	LB A/A	POST	C				
	Induce	1	SO	0.25	% V/V	POST	C				
LSD (P=.05)								4.10	13.76	8.74	16.95
Standard Deviation								2.36	7.91	5.02	9.74
CV								2.44	8.93	5.51	11.11
Bartlett's X2								4.796	4.953	7.716	12.415
P(Bartlett's X2)								0.685	0.838	0.563	0.03*

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Weed Code	Yield	Yield
Rating Unit	lb/plot	Bu/A
Rating Date	Aug-29-01	Aug-29-01
ARM Action Codes		TY1
# Subsamples, Dec.		1

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	Yield lb/plot	Yield Bu/A
01	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	10.03	162.0
	Harness	7	EC	1.3	LB A/A	PRE	B		
	Atrazine	4	SC	1.5	LB A/A	POST	C		
	COC	1	SO	1	QT/A	POST	C		
02	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	11.83	191.0
	Harness Xtra	6	SE	2.7	LB A/A	PRE	B		
03	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	11.55	186.4
	Degree	3.8	CS	1.4	LB A/A	PRE	B		
	Atrazine	4	SC	1.5	LB A/A	POST	C		
	COC	1	SO	1	QT/A	POST	C		
04	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	9.90	159.8
	Degree Xtra	4.04	CS	2.4	LB A/A	PRE	B		
05	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	10.83	174.9
	Degree	3.8	CS	1.4	LB A/A	PRE	B		
	Roundup UltraMax	3.7	SL	0.75	LB AE/A	POST	C		
06	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	9.23	149.1
	Degree Xtra	4.04	CS	2.4	LB A/A	PRE	B		
	Roundup UltraMax	3.7	SL	0.75	LB AE/A	POST	C		
07	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	10.23	165.2
08	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	11.40	184.0
	Micro-Tech	4	ME	2.5	LB A/A	PRE	B		
	Atrazine	4	SC	1.5	LB A/A	POST	C		
	COC	1.0	SO	1	QT/A	POST	C		
09	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	8.70	140.4
	Bullet	4	SC	4	LB A/A	PRE	B		
10	FieldMaster	4.25	SE	4.25	LB A/A	PREPLANT	A	10.43	168.4
	Permit	75	DF	0.031	LB A/A	POST	C		
	Clarity	4	SL	0.125	LB A/A	POST	C		
	Induce	1	SO	0.25	% V/V	POST	C		

LSD (P=.05)	3.233	52.19
Standard Deviation	1.858	30.00
CV	17.84	17.84
Bartlett's X2	10.473	10.473
P(Bartlett's X2)	0.314	0.314

# University of Georgia

## Texas Panicum Time of Removal in RR Corn

Trial ID: 2001-A-3  
Location: Athens

Study Dir.: Vencill  
Investigator: William K. Vencill

### GENERAL TRIAL INFORMATION

**Study Director:** Vencill **Title:** \_\_\_\_\_  
**Affiliation:** University of Georgia  
**Postal Code:** 30602

**Investigator:** William K. Vencill **Title:** \_\_\_\_\_  
**Affiliation:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_

### TRIAL LOCATION

**City:** Athens **Trial Status:** Interim  
**State/Prov.:** Ga. **Trial Reliability:** \_\_\_\_\_  
**Postal Code:** 30602 **Initiation Date:** May-02-01  
**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.	_____	_____

**Crop 1:** \_\_\_\_\_ **Corn** **Variety:** DK622 RR  
**Planting Date:** May-02-01 **Planting Method:** 4-Row Planter  
**Rate:** 4 IN **Depth:** 1 in **Perennial Age:** \_\_\_\_\_  
**Row Spacing:** 30 IN **Seed Bed:** Chiseled  
**Soil Temperature:** 78 F **Soil Moisture:** Dry **Emergence Date:** May-09-01

### SITE AND DESIGN

**Plot Width, Unit:** 10 FT **Plot Length, Unit:** 20 FT **Reps:** 4  
**Site Type:** \_\_\_\_\_  
**Tillage Type:** Conventional **Study Design:** RANDOMIZED COMPLETE BLOCK

# University of Georgia

**Trial Initiation Comments:**

Previous Crops	Previous Pesticides	Year
1. Corn		

**MAINTENANCE**

**Field Prep./Maintenance:**

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

**SOIL DESCRIPTION**

% Sand: 76	% OM: 0.77	Texture: Sandy Loam
% Silt: 16	pH: 5.9	Soil Name: Cecil Sandy Loam
% Clay: 8	CEC: _____	Fert. Level: Good

**ADDITIONAL MEASURED ELEMENTS**

Element	Quantity	Unit
1.		

**MOISTURE CONDITIONS**

Date	Time	Amount	Unit	Type	Interval	Unit
1.						

Overall Moisture Conditions: Dry

Closest Weather Station: UGA Plant Science Farm

Distance: 0.5

Unit: MI

**APPLICATION DESCRIPTION**

	A	B	C	D	E	F
Application Date:	May-09-01	May-16-01	May-23-01	May-30-01	Jun-06-01	Jun-13-01
Time of Day:	9:30 AM	11:00 AM	9:30 AM	10:00 AM	8:45 AM	9:30 AM
Application Method:	BKPK	BKPK	BKPK	BKPK	BKPK	BKPK
Application Timing:	1WAE	2WAE	3WAE	4WAE	5WAE	6WAE
Applic. Placement:	Broadcast	Broadcast	Broadcast	Broadcast	Broadcast	Broadcast
Air Temp., Unit:	70 F	83 F	69 F	76 F	80 F	73 F
% Relative Humidity:	60	65	65	51	66	82
Wind Velocity, Unit:	1 MPH	4 MPH	0 MPH	1 MPH	0 MPH	1 MPH
Dew Presence (Y/N):	N	N	Y	N	Y	Y
Water Hardness:						
Soil Temp., Unit:	76 F	80 F	76 F	74 F	82 F	83 F
Soil Moisture:	Dry	Dry	Dry	Wet	Wet	WET
% Cloud Cover:	20		0	0	80	100

# University of Georgia

	G	H	I
Application Date:	_____	_____	_____
Time of Day:	_____	_____	_____
Application Method:	_____	_____	_____
Application Timing:	_____	_____	_____
Applic. Placement:	_____	_____	_____
Air Temp., Unit:	____ _	____ _	____ _
% Relative Humidity:	_____	_____	_____
Wind Velocity, Unit:	____ _	____ _	____ _
Dew Presence (Y/N):	__	__	__
Water Hardness:	_____	_____	_____
Soil Temp., Unit:	____ _	____ _	____ _
Soil Moisture:	_____	_____	_____
% Cloud Cover:	_____	_____	_____

### CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	_____	_____	_____	_____
Stage Scale:	_____	_____	_____	_____
Height, Unit:	____ _	____ _	____ _	____ _
	E	F	G	H
Crop 1 Code, Stage:	_____	_____	_____	_____
Stage Scale:	_____	_____	_____	_____
Height, Unit:	____ _	____ _	____ _	____ _
	I			
Crop 1 Code, Stage:	_____			
Stage Scale:	_____			
Height, Unit:	____ _			

### WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code, Stage:	_____	_____	_____	_____
Stage Scale:	_____	_____	_____	_____
Density, Unit:	____ _	____ _	____ _	____ _
	E	F	G	H
Weed 1 Code, Stage:	_____	_____	_____	_____
Stage Scale:	_____	_____	_____	_____
Density, Unit:	____ _	____ _	____ _	____ _
	I			
Weed 1 Code, Stage:	_____			
Stage Scale:	_____			
Density, Unit:	____ _			



# University of Georgia

## APPLICATION EQUIPMENT

	A		B		C		D		E		F	
Appl. Equipment:	BKPK		BKPK		BKPK		BKPK		BKPK		BKPK	
Operating Pressure:	30 PSI		30 PSI		30 PSI		30 PSI		30 PSI		30 PSI	
Nozzle Type:	DG		DG		DG		DG		DG		DG	
Nozzle Size:	11003VK		11003VK		11003VK		11003VK		11003VK		11003VK	
Nozzle Spacing, Unit:	20	IN	20	IN	20	IN	20	IN	20	IN	20	IN
Nozzles/Row:	1		1		1		1		1		1	
Band Width, Unit:	_____		_____		_____		_____		_____		_____	
Boom Length, Unit:	6	FT	6	FT	6	FT	6	FT	6	ft	6	FT
Boom Height, Unit:	14	IN	14	IN	14	IN	20	IN	50	IN	68	IN
Ground Speed, Unit:	3	MPH	3	MPH	3	MPH	3	MPH	3	MPH	3	MPH
Incorporation Equip.:	_____		_____		_____		_____		_____		_____	
Hours to Incorp.:	_____		_____		_____		_____		_____		_____	
Incorp. Depth, Unit:	_____		_____		_____		_____		_____		_____	
Carrier:	Water		Water		WATER		Water		Water		WATER	
Spray Volume, Unit:	20	GPA	20	GPA	20	GPA	20	GPA	20	GPA	20	GPA
Spray pH:	_____		_____		_____		_____		_____		_____	
Propellant:	CO2		CO2		CO2		CO2		CO2		CO2	
Tank Mix (Y/N):	N		N		N		N		N		N	
	G		H		I							
Appl. Equipment:	_____		_____		_____		_____		_____		_____	
Operating Pressure:	_____		_____		_____		_____		_____		_____	
Nozzle Type:	_____		_____		_____		_____		_____		_____	
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



# University of Georgia

## Texas Panicum Time of Removal in RR Corn

Trial ID: 2001-A-3      Study Dir.: Vencill  
 Location: Athens      Investigator: William K. Vencill

Weed Code	yield	yield
Rating Unit	lb/plot	lb/plot
Rating Date	Aug-29-01	Aug-29-01
ARM Action Codes		TY1
# Subsamples, Dec.		1

Trt	Treatment	Form	Form	Rate	Grow	Appl		
No.	Name	Conc	Type	Rate	Unit	Stg	Code	
01	Untreated							10.83    168.8
02	Roundup UltraMax 3.7	SC		0.75	LB AE/A 1	WAE A		8.13    126.7
03	Roundup UltraMax 3.7	SC		0.75	LB AE/A 2	WAE B		10.48    163.3
04	Roundup UltraMax 3.7	SC		0.75	LB AE/A 3	WAE C		12.25    191.0
05	Roundup UltraMax 3.7	SC		0.75	LB AE/A 4	WAE D		10.33    161.0
06	Roundup UltraMax 3.7	SC		0.75	LB AE/A 5	WAE E		9.70    151.2
07	Roundup UltraMax 3.7	SC		0.75	LB AE/A 6	WAE F		11.23    175.0
08	Roundup UltraMax 3.7	SC		0.75	LB AE/A 7	WAE G		10.68    166.4
09	Roundup UltraMax 3.7	SC		0.75	LB AE/A 8	WAE H		11.75    183.2
10	Roundup UltraMax 3.7	SC		0.75	LB AE/A weekly	I		10.45    162.9
LSD (P=.05)								3.418    53.29
Standard Deviation								2.356    36.73
CV								22.26    22.26
Bartlett's X2								7.034    7.034
P(Bartlett's X2)								0.634    0.634

# University of Georgia

## Weed Control in Strip-Till Corn

Trial ID: 2001-A-4  
Location: Athens

Study Dir.: Vencill  
Investigator: William K. Vencill

### GENERAL TRIAL INFORMATION

**Study Director:** Vencill **Title:** \_\_\_\_\_  
**Affiliation:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_

**Investigator:** William K. Vencill **Title:** \_\_\_\_\_  
**Affiliation:** University of Georgia  
**Postal Code:** 30602

### TRIAL LOCATION

**City:** Athens **Trial Status:** Interim  
**State/Prov.:** Ga. **Trial Reliability:** \_\_\_\_\_  
**Postal Code:** 30602 **Initiation Date:** May-02-01  
**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.	_____	_____

**Crop 1:** \_\_\_\_\_ **CORN** **Variety:** DK662 RR  
**Planting Date:** May-02-01 **Planting Method:** 2-Row planter  
**Rate:** 4 FT **Depth:** 1 IN **Perennial Age:** \_\_\_\_\_  
**Row Spacing:** 38 IN **Seed Bed:** Striptill  
**Soil Temperature:** 74 F **Soil Moisture:** Dry **Emergence Date:** May-09-01

### SITE AND DESIGN

**Plot Width, Unit:** 10 FT **Plot Length, Unit:** 20 FT **Reps:** 3  
**Site Type:** \_\_\_\_\_  
**Tillage Type:** Strip-till **Study Design:** RANDOMIZED COMPLETE BLOCK

# University of Georgia

**Trial Initiation Comments:**

Previous Crops	Previous Pesticides	Year
1. _____	_____	_____

**MAINTENANCE**

**Field Prep./Maintenance:**

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

**SOIL DESCRIPTION**

% Sand: 76	% OM: 0.77	Texture: Sandy Loam
% Silt: 16	pH: 5.9	Soil Name: Cecil Sandy Loam
% Clay: 8	CEC: _____	Fert. Level: _____

**ADDITIONAL MEASURED ELEMENTS**

Element	Quantity	Unit
_____	_____	_____

**MOISTURE CONDITIONS**

Date	Time	Amount	Unit	Type	Interval	Unit
1. _____	_____	_____	_____	_____	_____	_____

**Overall Moisture Conditions:** Dry

**Closest Weather Station:** UGA Plant Science Farm

**Distance:** 0.5

**Unit:** Mi

**APPLICATION DESCRIPTION**

	A	B
<b>Application Date:</b>	May-02-01	May-23-01
<b>Time of Day:</b>	11:00 AM	9:30 AM
<b>Application Method:</b>	BKPK	BKPK
<b>Application Timing:</b>	PRE	EPOST
<b>Applic. Placement:</b>	Broadcast	BROADCAST
<b>Air Temp., Unit:</b>	72 F	69 F
<b>% Relative Humidity:</b>	65	65
<b>Wind Velocity, Unit:</b>	2 MPH	0 MPH
<b>Dew Presence (Y/N):</b>	N	Y
<b>Water Hardness:</b>	_____	_____
<b>Soil Temp., Unit:</b>	74 F	76 F
<b>Soil Moisture:</b>	Dry	Wet
<b>% Cloud Cover:</b>	0	0

**CROP STAGE AT EACH APPLICATION**

	A	B
<b>Crop 1 Code, Stage:</b>	_____	_____
<b>Stage Scale:</b>	_____	_____
<b>Height, Unit:</b>	_____	_____

# University of Georgia

## WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	_____	_____
Stage Scale:	_____	_____
Density, Unit:	_____	_____

## APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BKPK	BKPK
Operating Pressure:	30 PSI	30 PSI
Nozzle Type:	DG	DG
Nozzle Size:	11003VK	11003VK
Nozzle Spacing, Unit:	20 IN	20 IN
Nozzles/Row:	1	1
Band Width, Unit:	_____	_____
Boom Length, Unit:	6 FT	6 FT
Boom Height, Unit:	14 IN	14 IN
Ground Speed, Unit:	3 MPH	3 MPH
Incorporation Equip.:	_____	_____
Hours to Incorp.:	_____	_____
Incorp. Depth, Unit:	_____	_____
Carrier:	WATER	WATER
Spray Volume, Unit:	20 GPA	20 GPA
Spray pH:	_____	_____
Propellant:	CO2	CO2
Tank Mix (Y/N):	Y	Y

Trt No Treatment Application Comment

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# University of Georgia

## Weed Control in Strip-Till Corn

Trial ID: 2001-A-4  
Location: Athens

Study Dir.: Vencill  
Investigator: William K. Vencill

Weed Code	xanst	digsa	amach	Yield	Yield
Rating Unit				lb/plot	Bu/A
Rating Date	Jun-06-01	Jun-06-01	Jun-06-01	Aug-29-01	Aug-29-01
ARM Action Codes					TY1
# Subsamples, Dec.					1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	xanst	digsa	amach	Yield lb/plot	Yield Bu/A
01	Untreated							0.0	0.0	0.0	1.87	29.1
02	Atrazine	4	SC	1	LB A/A	EPOST	B	99.0	88.0	99.0	8.17	127.3
	Prowl	3.3	EC	0.75	LB A/A	EPOST	B					
	COC	1	SO	1	QT/A	EPOST	B					
03	Basis Gold	89.5	DF	0.875	LB A/A	EPOST	B	95.7	97.7	97.7	9.00	140.3
	NIS	1	SO	0.25	% V/V	EPOST	B					
04	Roundup UltraMax	3.7	SL	0.75	LB AE/A	EPOST	B	99.0	99.0	99.0	10.07	157.0
	Roundup UltraMax	3.7	SL	0.75	LB AE/A	POST	C					
05	Degree Xtra	4.04	CS	2.4	LB A/A	PRE	A	97.0	90.0	97.7	7.40	115.4
	Roundup UltraMax	3.7	SL	0.75	LB AE/A	POST	C					
06	Bullet	4	SC	4	LB A/A	PRE	A	99.0	99.0	99.0	6.37	99.3
	Accent	75	DF	0.031	LB A/A	EPOST	B					
	NIS	1	SO	0.25	% V/V	EPOST	B					
07	Dual Magnum II	7.64	EC	1	LB A/A	PRE	A	99.0	97.7	99.0	9.33	145.5
	Atrazine	4	SC	1	LB A/A	PRE	A					
	Distinct	70	WDG	0.125	LB A/A	EPOST	B					
08	Roundup UltraMax	3.7	SL	0.75	LB AE/A	EPOST	B	99.0	97.7	99.0	10.53	164.2
	Atrazine	4	SC	1	LB A/A	EPOST	B					
LSD (P=.05)								3.32	10.17	1.87	5.534	86.28
Standard Deviation								1.90	5.80	1.07	3.160	49.27
CV								2.21	6.94	1.24	40.29	40.29
Bartlett's X2								1.822	11.85	0.0	3.928	3.928
P(Bartlett's X2)								0.177	0.019*	1.00	0.788	0.788

# University of Georgia

Valor Layby In Cotton

Trial ID: 01-A-7      Study Dir.: Vencill  
Location: Athens      Investigator: William K. Vencill

### GENERAL TRIAL INFORMATION

**Study Director:** Vencill      **Title:** \_\_\_\_\_  
**Affiliation:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_

**Investigator:** William K. Vencill      **Title:** \_\_\_\_\_  
**Affiliation:** University of Georgia  
**Postal Code:** 30602

### TRIAL LOCATION

**City:** Athens      **Trial Status:** Interim  
**State/Prov.:** Ga.      **Trial Reliability:** \_\_\_\_\_  
**Postal Code:** 30602      **Initiation Date:** May-17-01  
**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.	_____	_____

**Crop 1:** \_\_\_\_\_ Cotton      **Variety:** Paymaster  
**Planting Date:** May-17-01      **Planting Method:** 4 Row Planter  
**Rate:** 6 FT      **Depth:** 1 IN      **Perennial Age:** \_\_\_\_\_  
**Row Spacing:** 30 IN      **Seed Bed:** Chiseled  
**Soil Temperature:** 82 F      **Soil Moisture:** Dry      **Emergence Date:** May-23-01

### SITE AND DESIGN

**Plot Width, Unit:** 10 FT      **Plot Length, Unit:** 20 FT      **Reps:** 3  
**Site Type:** \_\_\_\_\_  
**Tillage Type:** Conventional      **Study Design:** RANDOMIZED COMPLETE BLOCK

# University of Georgia

**Trial Initiation Comments:**

Previous Crops	Previous Pesticides	Year
1. _____	_____	_____

**MAINTENANCE**

**Field Prep./Maintenance:**

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

**SOIL DESCRIPTION**

% Sand: 76	% OM: 0.77	Texture: Sandy Loam
% Silt: 16	pH: 5.9	Soil Name: Cecil Sandy Loam
% Clay: 8	CEC: _____	Fert. Level: Good

**ADDITIONAL MEASURED ELEMENTS**

Element	Quantity	Unit
_____	_____	_____

**MOISTURE CONDITIONS**

Date	Time	Amount	Unit	Type	Interval	Unit
1. _____	_____	_____	_____	_____	_____	_____

Overall Moisture Conditions: Dry

Closest Weather Station: UGA Plant Science Farm

Distance: 0.5

Unit: Mi

**APPLICATION DESCRIPTION**

	A	B
Application Date:	Jun-06-01	Jul-02-01
Time of Day:	10:00 AM	12:00 PM
Application Method:	BKPK	BKPK
Application Timing:	_____	Layby
Applic. Placement:	Broadcast	Direct
Air Temp., Unit:	80 F	82 F
% Relative Humidity:	66	77
Wind Velocity, Unit:	0 MPH	3 MPH
Dew Presence (Y/N):	Y	N
Water Hardness:	_____	_____
Soil Temp., Unit:	_____	89 F
Soil Moisture:	Wet	DRY
% Cloud Cover:	80	0

**CROP STAGE AT EACH APPLICATION**

	A	B
Crop 1 Code, Stage:	_____	_____
Stage Scale:	_____	_____
Height, Unit:	_____	_____



# University of Georgia

## WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	_____	_____
Stage Scale:	_____	_____
Density, Unit:	_____	_____

## APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BKPK	BKPK
Operating Pressure:	30 PSI	30 PSI
Nozzle Type:	DG	Flat Fan
Nozzle Size:	11003VK	8003 VK
Nozzle Spacing, Unit:	20 IN	1 IN
Nozzles/Row:	1	1
Band Width, Unit:	_____	_____
Boom Length, Unit:	_____	_____
Boom Height, Unit:	14 IN	3 IN
Ground Speed, Unit:	3 MPH	3 MPH
Incorporation Equip.:	_____	_____
Hours to Incorp.:	_____	_____
Incorp. Depth, Unit:	_____	_____
Carrier:	Water	Water
Spray Volume, Unit:	20 GPA	20 GPA
Spray pH:	_____	_____
Propellant:	CO2	CO2
Tank Mix (Y/N):	N	Y

Trt No Treatment Application Comment

---

# University of Georgia

## Valor Layby In Cotton

Trial ID: 01-A-7  
Location: Athens

Study Dir.: Vencill  
Investigator: William K. Vencill

Weed Code							inj	ipocc	digsa	amapa	casob	
Rating Date							Jul-11-01	Jul-11-01	Jul-11-01	Jul-11-01	Aug-10-01	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code					
01	Untreated							0.0	48.3	61.3	93.0	81.7
02	Valor	50	DG	0.032	LB A/A	Layby	A	0.0	91.3	97.7	99.0	93.0
	NIS	1	SO	0.25	% V/V	Layby	A					
3	Valor	50	DG	0.063	LB A/A	Layby	A	0.0	99.0	99.0	99.0	99.0
	NIS	1	SO	0.25	% V/V	Layby	A					
4	Valor	50	DG	0.032	LB A/A	Layby	A	0.0	96.0	99.0	99.0	91.7
	MSMA	6	EC	2	LB A/A	Layby	A					
	NIS	1	SO	0.25	% V/V	Layby	A					
5	Valor	50	DG	0.063	LB A/A	Layby	A	0.0	99.0	99.0	99.0	96.0
	MSMA	6	EC	2	LB A/A	Layby	A					
	NIS	1	SO	0.25	% V/V	Layby	A					
6	Roundup Ultra Max	5	SC	1	LB A/A	Layby	A	0.0	96.0	99.0	99.0	96.0
7	MSMA	6	EC	2	LB A/A	Layby	A	0.0	78.3	96.0	92.7	88.3
	NIS	1	SO	0.25	% V/V	Layby	A					
08	Valor	50	DG	0.032	LB A/A	Layby	A	0.0	99.0	99.0	99.0	97.7
	Roundup Ultra Max	5	SC	1	LB A/A	Layby	A					
09	Valor	50	DG	0.063	LB A/A	Layby	A	0.0	92.7	99.0	99.0	99.0
	Roundup Ultra Max	5	SC	1	LB A/A	Layby	A					
10	Valor	50	DG	0.032	LB A/A	Layby	A	0.0	96.0	99.0	99.0	96.0
	Touchdown 4	4	EC	1	LB A/A	Layby	A					
	NIS	1	SO	0.25	% V/V	Layby	A					
11	V-10080	4.25	SC	1.063	LB A/A	Layby	A	3.3	93.0	99.0	99.0	94.3
	NIS	1	SO	0.25	% V/V	Layby	A					
12	V-10080	4.25	SC	1.063	LB A/A	Layby	A	3.3	99.0	99.0	99.0	89.7
	NIS	1	SO	0.25	% V/V	Layby	A					
	Ammonium Sulfate	100	FD	2.5	LB/A	Layby	A					
13	V-10080	4.25	SC	1.063	LB A/A	Layby	A	0.0	94.3	99.0	99.0	96.0
	Impressive	100	DA	2.25	LB/A	Layby	A					
14	Karmex	50	DG	0.75	LB A/A	Layby	A	0.0	96.0	99.0	99.0	97.7
	MSMA	6	EC	2	LB A/A	Layby	A					
	COC	1	SO	1	LB A/A	Layby	A					
LSD (P=.05)								3.73	21.61	24.26	5.36	10.95
Standard Deviation								2.22	12.87	14.45	3.20	6.52
CV								466.99	14.1	15.06	3.26	6.94
Bartlett's X2								0.0	21.025	14.911	1.008	20.165
P(Bartlett's X2)								1.00	0.013*	0.001*	0.315	0.043*

# University of Georgia

Weed Code						ipopu		amapa		digsa		
Rating Date						Aug-10-01		Aug-10-01		Aug-10-01		
Trt	Treatment	Form	Form	Rate	Grow	Appl						
No.	Name	Conc	Type	Rate	Unit	Stg	Code					
01	Untreated							56.7	83.0	86.3		
02	Valor	50	DG	0.032	LB	A/A	Layby A	88.3	99.0	99.0		
	NIS	1	SO	0.25	%	V/V	Layby A					
3	Valor	50	DG	0.063	LB	A/A	Layby A	99.0	99.0	99.0		
	NIS	1	SO	0.25	%	V/V	Layby A					
4	Valor	50	DG	0.032	LB	A/A	Layby A	86.7	96.0	96.0		
	MSMA	6	EC	2	LB	A/A	Layby A					
	NIS	1	SO	0.25	%	V/V	Layby A					
5	Valor	50	DG	0.063	LB	A/A	Layby A	96.0	99.0	99.0		
	MSMA	6	EC	2	LB	A/A	Layby A					
	NIS	1	SO	0.25	%	V/V	Layby A					
6	Roundup Ultra Max	5	SC	1	LB	A/A	Layby A	91.3	96.0	96.0		
7	MSMA	6	EC	2	LB	A/A	Layby A	71.7	88.3	97.7		
	NIS	1	SO	0.25	%	V/V	Layby A					
08	Valor	50	DG	0.032	LB	A/A	Layby A	92.7	99.0	99.0		
	Roundup Ultra Max	5	SC	1	LB	A/A	Layby A					
09	Valor	50	DG	0.063	LB	A/A	Layby A	97.7	97.7	99.0		
	Roundup Ultra Max	5	SC	1	LB	A/A	Layby A					
10	Valor	50	DG	0.032	LB	A/A	Layby A	91.3	99.0	97.7		
	Touchdown 4	4	EC	1	LB	A/A	Layby A					
	NIS	1	SO	0.25	%	V/V	Layby A					
11	V-10080	4.25	SC	1.063	LB	A/A	Layby A	88.0	97.7	99.0		
	NIS	1	SO	0.25	%	V/V	Layby A					
12	V-10080	4.25	SC	1.063	LB	A/A	Layby A	81.3	97.7	97.7		
	NIS	1	SO	0.25	%	V/V	Layby A					
	Ammonium Sulfate	100	FD	2.5	LB/A		Layby A					
13	V-10080	4.25	SC	1.063	LB	A/A	Layby A	83.3	99.0	99.0		
	Impressive	100	DA	2.25	LB/A		Layby A					
14	Karmex	50	DG	0.75	LB	A/A	Layby A	94.3	99.0	99.0		
	MSMA	6	EC	2	LB	A/A	Layby A					
	COC	1	SO	1	LB	A/A	Layby A					
LSD (P=.05)								13.92	7.72	6.10		
Standard Deviation								8.29	4.60	3.63		
CV								9.53	4.77	3.73		
Bartlett's X2								12.059	13.094	8.113		
P(Bartlett's X2)								0.441	0.042*	0.15		

# University of Georgia

**New Generation Roundup Tank Mix/Premix Partners**

Trial ID: 01-A-8      Study Dir.: Vencill  
Location: Athens      Investigator: William K. Vencill

### GENERAL TRIAL INFORMATION

**Study Director:** Vencill      **Title:** \_\_\_\_\_  
**Affiliation:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_

**Investigator:** William K. Vencill      **Title:** \_\_\_\_\_  
**Affiliation:** University of Georgia  
**Postal Code:** 30602

### TRIAL LOCATION

**City:** Athens      **Trial Status:** Interim  
**State/Prov.:** Ga.      **Trial Reliability:** \_\_\_\_\_  
**Postal Code:** 30602      **Initiation Date:** May-17-01  
**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. \_\_\_\_\_  
  
**Crop 1:** \_\_\_\_\_ Cotton      **Variety:** Paymaster  
**Planting Date:** May-17-01      **Planting Method:** 4-Row Planter  
**Rate:** 6 FT      **Depth:** 1 IN      **Perennial Age:** \_\_\_\_\_  
**Row Spacing:** 30 IN      **Seed Bed:** Chiseled  
**Soil Temperature:** 89 F      **Soil Moisture:** Dry      **Emergence Date:** May-23-01

### SITE AND DESIGN

**Plot Width, Unit:** 10 FT      **Plot Length, Unit:** 40 FT      **Reps:** 3  
**Site Type:** \_\_\_\_\_  
**Tillage Type:** Conventional      **Study Design:** RANDOMIZED COMPLETE BLOCK

# University of Georgia

**Trial Initiation Comments:**

Previous Crops	Previous Pesticides	Year
1. _____	_____	_____

**MAINTENANCE**

**Field Prep./Maintenance:**

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

**SOIL DESCRIPTION**

% Sand: 76	% OM: 0.77	Texture: Sandy Loam
% Silt: 16	pH: 5.9	Soil Name: Cecil Sandy Loam
% Clay: 8	CEC: _____	Fert. Level: Good

**ADDITIONAL MEASURED ELEMENTS**

Element	Quantity	Unit
_____	_____	_____

**MOISTURE CONDITIONS**

Date	Time	Amount	Unit	Type	Interval	Unit
1. _____	_____	_____	_____	_____	_____	_____

Overall Moisture Conditions: Dry

Closest Weather Station: UGA pLANT Science Farm

Distance: 0.05 Unit: MI

**APPLICATION DESCRIPTION**

	A	B	C
Application Date:	May-29-01	Jun-06-01	Jul-02-01
Time of Day:	11:00 AM	10:00 AM	10:30 AM
Application Method:	BKPK	BKPK	BKPK
Application Timing:	OT-2	OT-4-5L	POST-D
Applic. Placement:	Broadcast	Broadcast	Broadcast
Air Temp., Unit:	78 F	80 F	76 F
% Relative Humidity:	60	66	77
Wind Velocity, Unit:	3 MPH	0	1 MPH
Dew Presence (Y/N):	Y	Y	Y
Water Hardness:	_____	_____	_____
Soil Temp., Unit:	79 F	82 F	89
Soil Moisture:	WET	Wet	DRY
% Cloud Cover:	90	80	0

**CROP STAGE AT EACH APPLICATION**

	A	B	C
Crop 1 Code, Stage:	_____	_____	_____
Stage Scale:	_____	_____	_____
Height, Unit:	_____	_____	_____

# University of Georgia

## WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	_____	_____	_____
Stage Scale:	_____	_____	_____
Density, Unit:	_____	_____	_____

## APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	BKPK	BKPK	BKPK
Operating Pressure:	30 PSI	30 PSI	30 PSI
Nozzle Type:	DG	DG	DG
Nozzle Size:	11003VK	11003VK	11003VK
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN
Nozzles/Row:	1	1	1
Band Width, Unit:	_____	_____	_____
Boom Length, Unit:	6 FT	6 FT	6 FT
Boom Height, Unit:	14 IN	14 IN	14 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Incorporation Equip.:	_____	_____	_____
Hours to Incorp.:	_____	_____	_____
Incorp. Depth, Unit:	_____	_____	_____
Carrier:	Water	Water	Water
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA
Spray pH:	_____	_____	_____
Propellant:	CO2	CO2	CO2
Tank Mix (Y/N):	N	N	Y

Trt No Treatment Application Comment

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	Strongarm	84	WG	0.025	LB A/A	POST-D	C					
15	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	3.3	99.0	99.0	99.0	0.0
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C					
	V-3153	57.6	WG	0.018	LB A/A	POST-D	C					

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# University of Georgia

Weed Code	inj	casob	amapa	ipocc	inj
Rating Unit					
Rating Date	Jul-10-01	Jul-10-01	Jul-10-01	Jul-10-01	Aug-03-01
ARM Action Codes					
# Subsamples, Dec.					

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code					
16	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	6.7	96.0	96.0	92.7	0.0
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST_D	C					
	UGA2001	70	WG	0.1	LB A/A	POST-D	C					
17	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	0.0	97.7	99.0	99.0	0.0
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST_D	C					
18	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT 2	A	0.0	97.7	97.7	94.7	0.0
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B					
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C					
19	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	0.0	93.0	97.7	93.7	0.0
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C					
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	Layby	D					
20	Untreated							0.0	0.0	0.0	0.0	0.0
LSD (P=.05)								7.79	4.25	2.87	8.50	0.00
Standard Deviation								4.72	2.57	1.74	5.15	0.00
CV								77.59	2.77	1.86	5.58	0.0
Bartlett's X2								6.169	6.429	2.419	5.85	0.0
P(Bartlett's X2)								0.862	0.491	0.659	0.44	0.00*

# University of Georgia

Weed Code	casob	ipopu	xanst	Yield
Rating Unit				lb/plot
Rating Date	Aug-03-01	Aug-03-01	Aug-03-01	Nov-12-01
ARM Action Codes				
# Subsamples, Dec.				

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code	casob	ipopu	xanst	Yield
01	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	94.7	86.7	97.7	2.8167
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C				
	Direx	80	WP	0.5	LB A/A	POST-D	C				
02	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	96.0	93.0	96.3	2.9167
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C				
	Direx	80	WP	0.75	LB A/A	POST-D	C				
03	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	64.7	63.0	66.0	2.5833
	MON 78230	5.88	SC	1.59	LB A/A	POST-D	C				
04	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	96.3	88.0	97.7	2.4167
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C				
	Aim	40	DF	0.0036	LB A/A	POST-D	C				
05	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	97.7	93.0	99.0	2.4083
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C				
	Lorox	50	DF	0.75	LB A/A	POST-D	C				
06	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	99.0	97.7	99.0	2.0167
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C				
	Amplify	84	WG	0.016	LB A/A	POST-D	C				
07	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	66.0	66.0	66.0	2.5000
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C				
	Amplify	84	WG	0.032	LB A/A	POST-D	C				
08	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	97.7	91.3	97.7	1.0500
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C				
	Maverick	75	DF	0.016	LB A/A	POST-D	C				
09	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	97.7	93.0	99.0	1.9667
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C				
	Permit	75	DF	0.048	LB A/A	POST-D	C				
10	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	96.3	99.0	99.0	2.6833
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C				
	Valor	50	DF	0.063	LB A/A	POST-D	C				
11	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	99.0	99.0	99.0	2.5333
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C				
	Valor	50	DF	0.094	LB A/A	POST-D	C				
12	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	97.7	94.3	99.0	2.3333
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C				
	CGA 362622	75	WG	0.004	LB A/A	POST-D	C				
13	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	99.0	99.0	99.0	2.0000
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C				
	CGA 362622	75	WG	0.007	LB A/A	POST-D	C				
14	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	99.0	99.0	99.0	2.2667
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C				
	Strongarm	84	WG	0.025	LB A/A	POST-D	C				
15	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	96.0	89.7	99.0	2.4167
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C				
	V-3153	57.6	WG	0.018	LB A/A	POST-D	C				

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16	Roundup Ultra Max 3.7	SL	0.75	LB AE/A OT4-5L B	94.7	91.0	96.0	2.1667
	Roundup Ultra Max 3.7	SL	0.75	LB AE/A POST_D C				
	UGA2001	70	WG	0.1	LB A/A	POST-D	C	

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# University of Georgia

Weed Code	Yield
Rating Unit	lb/plot
Rating Date	Nov-12-01
ARM Action Codes	TY1
# Subsamples, Dec.	1

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code	Yield
01	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	2453.9
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C	
	Direx	80	WP	0.5	LB A/A	POST-D	C	
02	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	2541.0
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C	
	Direx	80	WP	0.75	LB A/A	POST-D	C	
03	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	2250.6
	MON 78230	5.88	SC	1.59	LB A/A	POST-D	C	
04	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	2105.4
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C	
	Aim	40	DF	0.0036	LB A/A	POST-D	C	
05	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	2098.1
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST_D	C	
	Lorox	50	DF	0.75	LB A/A	POST-D	C	
06	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	1756.9
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C	
	Amplify	84	WG	0.016	LB A/A	POST-D	C	
07	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	2178.0
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C	
	Amplify	84	WG	0.032	LB A/A	POST-D	C	
08	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	914.8
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C	
	Maverick	75	DF	0.016	LB A/A	POST-D	C	
09	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	1713.4
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C	
	Permit	75	DF	0.048	LB A/A	POST-D	C	
10	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	2337.7
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST_D	C	
	Valor	50	DF	0.063	LB A/A	POST_D	C	
11	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	2207.0
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C	
	Valor	50	DF	0.094	LB A/A	POST-D	C	
12	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	2032.8
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C	
	CGA 362622	75	WG	0.004	LB A/A	POST-D	C	
13	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	1742.4
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C	
	CGA 362622	75	WG	0.007	LB A/A	POST-D	C	
14	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	1974.7
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C	
	Strongarm	84	WG	0.025	LB A/A	POST-D	C	
15	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	2105.4
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C	
	V-3153	57.6	WG	0.018	LB A/A	POST-D	C	

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16	Roundup Ultra Max 3.7	SL	0.75	LB AE/A OT4-5L B	1887.6
	Roundup Ultra Max 3.7	SL	0.75	LB AE/A POST_D C	
	UGA2001 70	WG	0.1	LB A/A POST-D C	

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# University of Georgia

Weed Code	Yield
Rating Unit	lb/plot
Rating Date	Nov-12-01
ARM Action Codes	TY1
# Subsamples, Dec.	1

Trt	Treatment	Form	Form	Rate	Grow	Appl	Yield
No.	Name	Conc	Type	Rate	Unit	Stg	Code
17	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L B	2250.6
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST_D C	
18	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT 2 A	2105.4
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L B	
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D C	
19	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L B	2323.2
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D C	
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	Layby D	
20	Untreated						2221.6
LSD (P=.05)							740.23
Standard Deviation							448.59
CV							21.78
Bartlett's X2							27.794
P(Bartlett's X2)							0.087

# University of Georgia

Staple Plus Programs for RR Cotton

Trial ID: 01-A-9 Study Dir.: Vencill  
Location: Athens Investigator: William K. Vencill

### GENERAL TRIAL INFORMATION

**Study Director:** Vencill **Title:** \_\_\_\_\_  
**Affiliation:** University of Georgia  
**Postal Code:** 30602  
  
**Investigator:** William K. Vencill **Title:** \_\_\_\_\_  
**Affiliation:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_

### TRIAL LOCATION

**City:** Athens **Trial Status:** Interim  
**State/Prov.:** Ga. **Trial Reliability:** \_\_\_\_\_  
**Postal Code:** 30602 **Initiation Date:** May-17-01  
**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.	_____	_____

**Crop 1:** \_\_\_\_\_ Cotton **Variety:** Paymaster  
**Planting Date:** May-17-01 **Planting Method:** 4-Row Planter  
**Rate:** 6 FT **Depth:** 1 IN **Perennial Age:** \_\_\_\_\_  
**Row Spacing:** 30 IN **Seed Bed:** Chiseled  
**Soil Temperature:** 82 F **Soil Moisture:** Dry **Emergence Date:** May-23-01

### SITE AND DESIGN

**Plot Width, Unit:** 10 FT **Plot Length, Unit:** 20 FT **Reps:** 3  
**Site Type:** \_\_\_\_\_  
**Tillage Type:** Conventional **Study Design:** RANDOMIZED COMPLETE BLOCK



# University of Georgia

**Trial Initiation Comments:**

Previous Crops	Previous Pesticides	Year
1. _____	_____	_____

**MAINTENANCE**

**Field Prep./Maintenance:**

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

**SOIL DESCRIPTION**

% Sand: 76	% OM: 0.77	Texture: Sandy Loam
% Silt: 16	pH: 5.9	Soil Name: Cecil Sandy Loam
% Clay: 8	CEC: _____	Fert. Level: Good

**ADDITIONAL MEASURED ELEMENTS**

Element	Quantity	Unit
_____	_____	_____

**MOISTURE CONDITIONS**

Date	Time	Amount	Unit	Type	Interval	Unit
1. _____	_____	_____	_____	_____	_____	_____

Overall Moisture Conditions: Dry

Closest Weather Station: UGA Plant Science Farm

Distance: 0.5

Unit: MI

**APPLICATION DESCRIPTION**

	A	B	C
Application Date:	May-29-01	Jun-11-01	Jun-19-01
Time of Day:	11:10 AM	9:00 AM	11:00 AM
Application Method:	BKPK	BKPK	BKPK
Application Timing:	OTco-1L	OT2-3L	OT-3-4L
Applic. Placement:	Broadcast	Broadcast	Broadcast
Air Temp., Unit:	78 F	75 F	80 F
% Relative Humidity:	60	85	58
Wind Velocity, Unit:	3 MPH	3 MPH	3 MPH
Dew Presence (Y/N):	Y	Y	N
Water Hardness:	_____	_____	_____
Soil Temp., Unit:	79 F	85 F	88 F
Soil Moisture:	WET	WET	WET
% Cloud Cover:	90	100	0

**CROP STAGE AT EACH APPLICATION**

	A	B	C
Crop 1 Code, Stage:	_____	_____	_____
Stage Scale:	_____	_____	_____
Height, Unit:	_____	_____	_____

# University of Georgia

## WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	_____	_____	_____
Stage Scale:	_____	_____	_____
Density, Unit:	_____	_____	_____

## APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	BKPK	BKPK	BKPK
Operating Pressure:	30 PSI	30 PSI	30 PSI
Nozzle Type:	DG	DG	DG
Nozzle Size:	11003VK	11003VK	11003VK
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN
Nozzles/Row:	1	1	1
Band Width, Unit:	_____	_____	_____
Boom Length, Unit:	6 FT	6 FT	6 FT
Boom Height, Unit:	14 IN	14 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Incorporation Equip.:	_____	_____	_____
Hours to Incorp.:	_____	_____	_____
Incorp. Depth, Unit:	_____	_____	_____
Carrier:	Water	Water	Water
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA
Spray pH:	_____	_____	_____
Propellant:	CO2	CO2	CO2
Tank Mix (Y/N):	Y	Y	Y

Trt No Treatment Application Comment

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# University of Georgia

## Staple Plus Programs for RR Cotton

Trial ID: 01-A-9      Study Dir.: Vencill  
Location: Athens      Investigator: William K. Vencill

Weed Code								inj	ipocc	casob	inj	ipocc
Rating Date								Jun-15-01	Jun-15-01	Jun-15-01	Jun-22-01	Jun-22-01
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Stg	Appl Code					
01	Staple	85	SP	0.032	LB A/A	OT2-3L	B	6.7	68.3	99.0	6.7	88.3
	Roundup Original	4	SC	0.75	LB A/A	OT2-3L	B					
	Induce	1	SO	0.25	% V/V	OT2-3L	B					
02	Staple	85	SP	0.0425	LB A/A	OT2-3L	B	0.0	65.0	99.0	3.3	90.0
	Roundup Original	4	SC	0.75	LB A/A	OT2-3L	B					
	Induce	1	SO	0.25	% V/V	OT2-3L	B					
03	Staple	85	SP	0.0212	LB A/A	OTco-1L	A	0.0	99.0	97.7	5.0	99.0
	Dupont Glyphosate	4	SC	0.5	LB A/A	OTco-1L	A					
	Induce	1	SO	0.25	% V/V	OTco-1L	A					
	Staple	85	SP	0.0212	LB A/A	OT3-4L	C					
	Dupont Glyphosate	4	SC	0.5	LB A/A	OT3-4L	C					
	Induce	1	SO	0.25	% V/V	OT3-4L	C					
04	Staple	85	SP	0.0212	LB A/A	OTco-1L	A	0.0	98.7	99.0	6.7	97.7
	Dupont Glyphosate	4	SC	0.5	LB A/A	OTco-1L	A					
	Induce	1	SO	0.25	% V/V	OTco-1L	A					
	Staple	85	SP	0.032	LB A/A	OT3-4L	C					
	Dupont Glyphosate	4	SC	0.75	LB A/A	OT3-4L	C					
	Induce	1	SO	0.25	% V/V	OT3-4L	C					
05	Staple	85	SP	0.032	LB A/A	OTco-1L	A	0.0	99.0	99.0	8.3	99.0
	Dupont Glyphosate	4	SC	0.75	LB A/A	OTco-1L	A					
	Induce	1	SO	0.25	% V/V	OTco-1L	A					
	Staple	85	SP	0.032	LB A/A	OT3-4L	C					
	Dupont Glyphosate	4	SC	0.75	LB A/A	OT3-4L	C					
	Induce	1	SO	0.25	% V/V	OT3-4L	C					
06	Staple	85	SP	0.032	LB A/A	OTco-1L	A	0.0	99.0	99.0	3.3	99.0
	Touchdown 4	4	SC	0.75	LB A/A	OTco-1L	A					
	Induce	1	SO	0.25	% V/V	OTco-1L	A					
	Staple	85	SP	0.032	LB A/A	OT3-4L	C					
	Touchdown 4	4	SC	0.75	LB A/A	OT3-4L	C					
	Induce	1	SO	0.25	% V/V	OT3-4L	C					
07	Roundup Ultra Max	5	SC	0.76	LB A/A	OT2-3L	B	0.0	75.0	99.0	3.3	76.7
08	Roundup Ultra Max	5	SC	1.02	LB A/A	OT2-3L	B	0.0	70.0	99.0	3.3	88.3
09	Roundup Ultra Max	5	SC	0.76	LB A/A	OTco-1L	A	0.0	97.7	99.0	11.7	95.3
	Roundup Ultra Max	5	SC	0.76	LB A/A	OT3-4L	C					
10	Roundup Ultra Max	5	SC	1.02	LB A/A	OTco-1L	A	0.0	99.0	99.0	6.7	97.7
	Roundup Ultra Max	5	SC	1.02	LB A/A	OT3-4L	C					
11	Untreated							0.0	0.0	0.0	0.0	0.0
LSD (P=.05)								2.96	11.64	1.19	8.92	8.70
Standard Deviation								1.74	6.83	0.70	5.24	5.11
CV								287.23	8.63	0.77	98.75	6.03
Bartlett's X2								0.0	15.513	0.0	2.971	12.073
P(Bartlett's X2)								0.00*	0.008*	0.00*	0.965	0.06

# University of Georgia

Weed Code						casob	xanst	inj	ipocc	casob			
Rating Date						Jun-22-01	Jun-22-01	Jul-11-01	Jul-11-01	Jul-11-01			
Trt	Treatment	Form	Form	Rate	Grow	Appl							
No.	Name	Conc	Type	Rate	Unit	Stg	Code						
01	Staple	85	SP	0.032	LB	A/A	OT2-3L	B	97.7	97.7	0.0	65.0	97.7
	Roundup Original	4	SC	0.75	LB	A/A	OT2-3L	B					
	Induce	1	SO	0.25	%	V/V	OT2-3L	B					
02	Staple	85	SP	0.0425	LB	A/A	OT2-3L	B	99.0	99.0	0.0	76.7	99.0
	Roundup Original	4	SC	0.75	LB	A/A	OT2-3L	B					
	Induce	1	SO	0.25	%	V/V	OT2-3L	B					
03	Staple	85	SP	0.0212	LB	A/A	OTco-1L	A	99.0	96.0	0.0	66.7	97.7
	Dupont Glyphosate	4	SC	0.5	LB	A/A	OTco-1L	A					
	Induce	1	SO	0.25	%	V/V	OTco-1L	A					
	Staple	85	SP	0.0212	LB	A/A	OT3-4L	C					
	Dupont Glyphosate	4	SC	0.5	LB	A/A	OT3-4L	C					
	Induce	1	SO	0.25	%	V/V	OT3-4L	C					
04	Staple	85	SP	0.0212	LB	A/A	OTco-1L	A	99.0	95.7	0.0	68.3	93.0
	Dupont Glyphosate	4	SC	0.5	LB	A/A	OTco-1L	A					
	Induce	1	SO	0.25	%	V/V	OTco-1L	A					
	Staple	85	SP	0.032	LB	A/A	OT3-4L	C					
	Dupont Glyphosate	4	SC	0.75	LB	A/A	OT3-4L	C					
	Induce	1	SO	0.25	%	V/V	OT3-4L	C					
05	Staple	85	SP	0.032	LB	A/A	OTco-1L	A	98.7	98.7	0.0	83.3	97.7
	Dupont Glyphosate	4	SC	0.75	LB	A/A	OTco-1L	A					
	Induce	1	SO	0.25	%	V/V	OTco-1L	A					
	Staple	85	SP	0.032	LB	A/A	OT3-4L	C					
	Dupont Glyphosate	4	SC	0.75	LB	A/A	OT3-4L	C					
	Induce	1	SO	0.25	%	V/V	OT3-4L	C					
06	Staple	85	SP	0.032	LB	A/A	OTco-1L	A	99.0	93.0	0.0	81.7	97.7
	Touchdown 4	4	SC	0.75	LB	A/A	OTco-1L	A					
	Induce	1	SO	0.25	%	V/V	OTco-1L	A					
	Staple	85	SP	0.032	LB	A/A	OT3-4L	C					
	Touchdown 4	4	SC	0.75	LB	A/A	OT3-4L	C					
	Induce	1	SO	0.25	%	V/V	OT3-4L	C					
07	Roundup Ultra Max	5	SC	0.76	LB	A/A	OT2-3L	B	94.7	96.3	0.0	56.7	91.7
08	Roundup Ultra Max	5	SC	1.02	LB	A/A	OT2-3L	B	97.7	99.0	0.0	40.0	64.7
09	Roundup Ultra Max	5	SC	0.76	LB	A/A	OTco-1L	A	97.7	93.3	0.0	71.7	89.3
	Roundup Ultra Max	5	SC	0.76	LB	A/A	OT3-4L	C					
10	Roundup Ultra Max	5	SC	1.02	LB	A/A	OTco-1L	A	97.3	93.0	0.0	53.3	66.0
	Roundup Ultra Max	5	SC	1.02	LB	A/A	OT3-4L	C					
11	Untreated								0.0	0.0	0.0	0.0	0.0
LSD (P=.05)									2.72	6.56	0.00	34.16	42.83
Standard Deviation									1.60	3.85	0.00	20.06	25.15
CV									1.79	4.41	0.0	33.26	30.93
Bartlett's X2									5.75	11.955	0.0	17.856	45.266
P(Bartlett's X2)									0.331	0.102	0.00*	0.037*	0.001*

# University of Georgia

Weed Code								sidp	amapa	xanst	ipopu
Rating Date								Jul-11-01	Jul-11-01	Aug-10-01	Aug-10-01
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Grow Stg	Appl Code				
01	Staple	85	SP	0.032	LB A/A	OT2-3L	B	96.0	99.0	91.7	71.7
	Roundup Original	4	SC	0.75	LB A/A	OT2-3L	B				
	Induce	1	SO	0.25	% V/V	OT2-3L	B				
02	Staple	85	SP	0.0425	LB A/A	OT2-3L	B	99.0	99.0	88.3	70.0
	Roundup Original	4	SC	0.75	LB A/A	OT2-3L	B				
	Induce	1	SO	0.25	% V/V	OT2-3L	B				
03	Staple	85	SP	0.0212	LB A/A	OTco-1L	A	99.0	99.0	83.3	68.3
	Dupont Glyphosate	4	SC	0.5	LB A/A	OTco-1L	A				
	Induce	1	SO	0.25	% V/V	OTco-1L	A				
	Staple	85	SP	0.0212	LB A/A	OT3-4L	C				
	Dupont Glyphosate	4	SC	0.5	LB A/A	OT3-4L	C				
	Induce	1	SO	0.25	% V/V	OT3-4L	C				
04	Staple	85	SP	0.0212	LB A/A	OTco-1L	A	99.0	99.0	76.7	60.0
	Dupont Glyphosate	4	SC	0.5	LB A/A	OTco-1L	A				
	Induce	1	SO	0.25	% V/V	OTco-1L	A				
	Staple	85	SP	0.032	LB A/A	OT3-4L	C				
	Dupont Glyphosate	4	SC	0.75	LB A/A	OT3-4L	C				
	Induce	1	SO	0.25	% V/V	OT3-4L	C				
05	Staple	85	SP	0.032	LB A/A	OTco-1L	A	99.0	99.0	85.0	75.0
	Dupont Glyphosate	4	SC	0.75	LB A/A	OTco-1L	A				
	Induce	1	SO	0.25	% V/V	OTco-1L	A				
	Staple	85	SP	0.032	LB A/A	OT3-4L	C				
	Dupont Glyphosate	4	SC	0.75	LB A/A	OT3-4L	C				
	Induce	1	SO	0.25	% V/V	OT3-4L	C				
06	Staple	85	SP	0.032	LB A/A	OTco-1L	A	99.0	99.0	60.0	60.0
	Touchdown 4	4	SC	0.75	LB A/A	OTco-1L	A				
	Induce	1	SO	0.25	% V/V	OTco-1L	A				
	Staple	85	SP	0.032	LB A/A	OT3-4L	C				
	Touchdown 4	4	SC	0.75	LB A/A	OT3-4L	C				
	Induce	1	SO	0.25	% V/V	OT3-4L	C				
07	Roundup Ultra Max 5	5	SC	0.76	LB A/A	OT2-3L	B	96.3	99.0	76.7	36.7
08	Roundup Ultra Max 5	5	SC	1.02	LB A/A	OT2-3L	B	66.0	66.0	83.3	40.0
09	Roundup Ultra Max 5	5	SC	0.76	LB A/A	OTco-1L	A	94.3	99.0	88.3	66.0
	Roundup Ultra Max 5	5	SC	0.76	LB A/A	OT3-4L	C				
10	Roundup Ultra Max 5	5	SC	1.02	LB A/A	OTco-1L	A	66.0	66.0	81.7	81.7
	Roundup Ultra Max 5	5	SC	1.02	LB A/A	OT3-4L	C				
11	Untreated							0.0	0.0	0.0	0.0
LSD (P=.05)								42.64	42.54	19.43	33.56
Standard Deviation								25.03	24.97	11.41	19.71
CV								30.14	29.73	15.39	34.44
Bartlett's X2								19.797	0.0	9.083	8.49
P(Bartlett's X2)								0.001*	1.00	0.43	0.486

# University of Georgia

Weed Code						ambel		casob	
Rating Date						Aug-10-01		Aug-10-01	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code		
01	Staple	85	SP	0.032	LB A/A	OT2-3L	B	88.3	90.0
	Roundup Original	4	SC	0.75	LB A/A	OT2-3L	B		
	Induce	1	SO	0.25	% V/V	OT2-3L	B		
02	Staple	85	SP	0.0425	LB A/A	OT2-3L	B	91.7	90.0
	Roundup Original	4	SC	0.75	LB A/A	OT2-3L	B		
	Induce	1	SO	0.25	% V/V	OT2-3L	B		
03	Staple	85	SP	0.0212	LB A/A	OTco-1L	A	91.7	91.7
	Dupont Glyphosate	4	SC	0.5	LB A/A	OTco-1L	A		
	Induce	1	SO	0.25	% V/V	OTco-1L	A		
	Staple	85	SP	0.0212	LB A/A	OT3-4L	C		
	Dupont Glyphosate	4	SC	0.5	LB A/A	OT3-4L	C		
	Induce	1	SO	0.25	% V/V	OT3-4L	C		
04	Staple	85	SP	0.0212	LB A/A	OTco-1L	A	75.0	70.0
	Dupont Glyphosate	4	SC	0.5	LB A/A	OTco-1L	A		
	Induce	1	SO	0.25	% V/V	OTco-1L	A		
	Staple	85	SP	0.032	LB A/A	OT3-4L	C		
	Dupont Glyphosate	4	SC	0.75	LB A/A	OT3-4L	C		
	Induce	1	SO	0.25	% V/V	OT3-4L	C		
05	Staple	85	SP	0.032	LB A/A	OTco-1L	A	90.0	88.3
	Dupont Glyphosate	4	SC	0.75	LB A/A	OTco-1L	A		
	Induce	1	SO	0.25	% V/V	OTco-1L	A		
	Staple	85	SP	0.032	LB A/A	OT3-4L	C		
	Dupont Glyphosate	4	SC	0.75	LB A/A	OT3-4L	C		
	Induce	1	SO	0.25	% V/V	OT3-4L	C		
06	Staple	85	SP	0.032	LB A/A	OTco-1L	A	76.7	81.7
	Touchdown 4	4	SC	0.75	LB A/A	OTco-1L	A		
	Induce	1	SO	0.25	% V/V	OTco-1L	A		
	Staple	85	SP	0.032	LB A/A	OT3-4L	C		
	Touchdown 4	4	SC	0.75	LB A/A	OT3-4L	C		
	Induce	1	SO	0.25	% V/V	OT3-4L	C		
07	Roundup Ultra Max 5	5	SC	0.76	LB A/A	OT2-3L	B	85.0	86.7
08	Roundup Ultra Max 5	5	SC	1.02	LB A/A	OT2-3L	B	86.7	81.7
09	Roundup Ultra Max 5	5	SC	0.76	LB A/A	OTco-1L	A	85.0	86.7
	Roundup Ultra Max 5	5	SC	0.76	LB A/A	OT3-4L	C		
10	Roundup Ultra Max 5	5	SC	1.02	LB A/A	OTco-1L	A	83.3	80.0
	Roundup Ultra Max 5	5	SC	1.02	LB A/A	OT3-4L	C		
11	Untreated							0.0	0.0
LSD (P=.05)								16.53	14.65
Standard Deviation								9.71	8.60
CV								12.51	11.18
Bartlett's X2								13.29	14.094
P(Bartlett's X2)								0.15	0.05*

# University of Georgia

Staple in PRE or POST Programs with CGA 362622

Trial ID: 01-A-10  
Location: Athens

Study Dir.: Vencill  
Investigator: William K. Vencill

### GENERAL TRIAL INFORMATION

**Study Director:** Vencill **Title:** \_\_\_\_\_  
**Affiliation:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_

**Investigator:** William K. Vencill **Title:** \_\_\_\_\_  
**Affiliation:** University of Georgia  
**Postal Code:** 30602

### TRIAL LOCATION

**City:** Athens **Trial Status:** Interim  
**State/Prov.:** Ga. **Trial Reliability:** \_\_\_\_\_  
**Postal Code:** 30602 **Initiation Date:** May-17-01  
**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.	_____	_____

**Crop 1:** \_\_\_\_\_ **Cotton** **Variety:** PM  
**Planting Date:** May-17-01 **Planting Method:** 4-Row Planter  
**Rate:** 6 FT **Depth:** 1 IN **Perennial Age:** \_\_\_\_\_  
**Row Spacing:** 30 IN **Seed Bed:** Chiseled  
**Soil Temperature:** 82 F **Soil Moisture:** Dry **Emergence Date:** May-23-01

### SITE AND DESIGN

**Plot Width, Unit:** 10 FT **Plot Length, Unit:** 20 FT **Reps:** 3  
**Site Type:** \_\_\_\_\_  
**Tillage Type:** Conventional **Study Design:** RANDOMIZED COMPLETE BLOCK

# University of Georgia

**Trial Initiation Comments:**

Previous Crops	Previous Pesticides	Year
1. _____		

**MAINTENANCE**

**Field Prep./Maintenance:**

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

**SOIL DESCRIPTION**

% Sand: 76	% OM: 0.77	Texture: Sandy Loam
% Silt: 16	pH: 5.9	Soil Name: Cecil Sandy Loam
% Clay: 8	CEC: _____	Fert. Level: Good

**ADDITIONAL MEASURED ELEMENTS**

Element	Quantity	Unit
_____		

**MOISTURE CONDITIONS**

Date	Time	Amount	Unit	Type	Interval	Unit
1. _____						

**Overall Moisture Conditions:** Dry

**Closest Weather Station:** UGA Plant Science Farm

**Distance:** 0.5

**Unit:** MI

**APPLICATION DESCRIPTION**

	A	B
<b>Application Date:</b>	May-17-01	Jun-11-01
<b>Time of Day:</b>	2:45 PM	9:30 AM
<b>Application Method:</b>	BKPK	BKPK
<b>Application Timing:</b>	Pre	OT2-4L
<b>Applic. Placement:</b>	Broadcast	Broadcast
<b>Air Temp., Unit:</b>	89 F	78 F
<b>% Relative Humidity:</b>	35	85
<b>Wind Velocity, Unit:</b>	2 MPH	0 MPH
<b>Dew Presence (Y/N):</b>	N	Y
<b>Water Hardness:</b>	_____	_____
<b>Soil Temp., Unit:</b>	82 F	85 F
<b>Soil Moisture:</b>	Dry	WET
<b>% Cloud Cover:</b>	_____	100

**CROP STAGE AT EACH APPLICATION**

	A	B
<b>Crop 1 Code, Stage:</b>	_____	_____
<b>Stage Scale:</b>	_____	_____
<b>Height, Unit:</b>	_____	_____



# University of Georgia

## WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	_____	_____
Stage Scale:	_____	_____
Density, Unit:	_____	_____

## APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BKPK	BKPK
Operating Pressure:	30 PSI	30 PSI
Nozzle Type:	DG	DG
Nozzle Size:	11003VK	11003VK
Nozzle Spacing, Unit:	20 IN	20 IN
Nozzles/Row:	1	1
Band Width, Unit:	_____	_____
Boom Length, Unit:	6 FT	6 FT
Boom Height, Unit:	14 IN	14 IN
Ground Speed, Unit:	3 MPH	3 MPH
Incorporation Equip.:	_____	_____
Hours to Incorp.:	_____	_____
Incorp. Depth, Unit:	_____	_____
Carrier:	Water	Water
Spray Volume, Unit:	20 GPA	20 GPA
Spray pH:	_____	_____
Propellant:	CO2	CO2
Tank Mix (Y/N):	N	Y

Trt No Treatment Application Comment

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**University of Georgia**  
**Staple in PRE or POST Programs with CGA 362622**

Trial ID: 01-A-10  
 Location: Athens

Study Dir.: Vencill  
 Investigator: William K. Vencill

Weed Code													
Rating Date													
Trt	Treatment	Form	Form	Rate	Grow	Appl							
No.	Name	Conc	Type	Rate	Unit	Stg	Code						
01	Staple	85	SP	0.0266	LB	A/A	PRE	A	0.0	51.7	53.3	0.0	3.3
02	Staple	85	SP	0.0372	LB	A/A	PRE	A	3.3	50.0	56.7	0.0	6.7
03	Staple	85	SP	0.063	LB	A/A	OT2-4L	B	10.0	60.0	46.7	0.0	10.0
	Induce	1	SO	0.25	%	V/V	OT2-4L	B					
04	Staple	85	SP	0.027	LB	A/A	OT2-4L	B	30.0	85.0	86.7	16.7	16.7
	CGA 362622	75	WG	0.075	OZ	A/A	OT2-4L	B					
	Induce	1	SO	0.25	%	V/V	OT2-4L	B					
05	Staple	85	SP	0.0372	LB	A/A	PRE	A	36.7	93.0	91.7	40.0	33.3
	CGA 362622	75	WG	0.15	OZ	A/A	OT2-4L	B					
	Induce	1	SO	0.25	%	V/V	OT2-4L	B					
06	Staple	85	SP	0.0266	LB	A/A	PRE	A	23.3	91.7	95.0	99.0	15.0
	Dupont Glyphosate	4	SC	0.75	LB	A/A	OT2-4L	B					
	Induce	1	SO	0.25	%	V/V	OT2-4L	B					
07	CGA 362622	75	WG	0.15	OZ	A/A	OT2-4L	B	31.7	91.7	97.7	97.7	30.0
	Dupont Glyphosate	4	SC	0.75	LB	A/A	OT2-4L	B					
	Induce	1	SO	0.25	%	V/V	OT2-4L	B					
LSD (P=.05)									6.49	21.84	10.04	29.19	8.50
Standard Deviation									3.65	12.27	5.65	16.41	4.78
CV									18.91	16.43	7.49	45.33	29.08
Bartlett's X2									1.639	10.061	5.442	7.783	0.094
P(Bartlett's X2)									0.651	0.122	0.364	0.02*	1.00

# University of Georgia

Weed Code								ipocc		casob		amapa		inj		dacte	
Rating Date								Jun-22-01		Jun-22-01		Jun-22-01		Jul-11-01		Jul-11-01	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Grow Stg	Appl Code										
01	Staple	85	SP	0.0266	LB	A/A	PRE	A	13.3	26.7	46.7	0.0	16.7				
02	Staple	85	SP	0.0372	LB	A/A	PRE	A	41.7	83.0	97.7	0.0	60.0				
03	Staple	85	SP	0.063	LB	A/A	OT2-4L	B	61.7	65.0	97.7	0.0	20.0				
	Induce	1	SO	0.25	%	V/V	OT2-4L	B									
04	Staple	85	SP	0.027	LB	A/A	OT2-4L	B	94.0	94.7	99.0	0.0	55.0				
	CGA 362622	75	WG	0.075	OZ	A/A	OT2-4L	B									
	Induce	1	SO	0.25	%	V/V	OT2-4L	B									
05	Staple	85	SP	0.0372	LB	A/A	PRE	A	97.7	97.7	99.0	0.0	86.3				
	CGA 362622	75	WG	0.15	OZ	A/A	OT2-4L	B									
	Induce	1	SO	0.25	%	V/V	OT2-4L	B									
06	Staple	85	SP	0.0266	LB	A/A	PRE	A	91.3	97.7	99.0	0.0	93.3				
	Dupont Glyphosate	4	SC	0.75	LB	A/A	OT2-4L	B									
	Induce	1	SO	0.25	%	V/V	OT2-4L	B									
07	CGA 362622	75	WG	0.15	OZ	A/A	OT2-4L	B	94.7	99.0	99.0	0.0	96.0				
	Dupont Glyphosate	4	SC	0.75	LB	A/A	OT2-4L	B									
	Induce	1	SO	0.25	%	V/V	OT2-4L	B									
LSD (P=.05)								31.97	29.10	30.42	0.00	52.36					
Standard Deviation								17.97	16.36	17.10	0.00	29.43					
CV								25.45	20.31	18.76	0.0	48.21					
Bartlett's X2								15.386	14.991	16.186	0.0	13.06					
P(Bartlett's X2)								0.017*	0.01*	0.001*	0.00*	0.042*					

# University of Georgia

Weed Code								ipohe	casob	inj	dacte	ipopu	
Rating Date								Jul-11-01	Jul-11-01	Aug-03-01	Aug-03-01	Aug-03-01	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Grow Stg	Appl Code						
01	Staple	85	SP	0.0266	LB	A/A	PRE	A	46.7	56.7	0.0	0.0	0.0
02	Staple	85	SP	0.0372	LB	A/A	PRE	A	43.3	86.7	0.0	0.0	0.0
03	Staple	85	SP	0.063	LB	A/A	OT2-4L	B	25.0	26.7	0.0	0.0	0.0
	Induce	1	SO	0.25	%	V/V	OT2-4L	B					
04	Staple	85	SP	0.027	LB	A/A	OT2-4L	B	85.0	88.3	0.0	23.3	83.3
	CGA 362622	75	WG	0.075	OZ	A/A	OT2-4L	B					
	Induce	1	SO	0.25	%	V/V	OT2-4L	B					
05	Staple	85	SP	0.0372	LB	A/A	PRE	A	93.0	91.3	0.0	61.7	96.0
	CGA 362622	75	WG	0.15	OZ	A/A	OT2-4L	B					
	Induce	1	SO	0.25	%	V/V	OT2-4L	B					
06	Staple	85	SP	0.0266	LB	A/A	PRE	A	81.7	86.7	0.0	97.7	78.3
	Dupont Glyphosate	4	SC	0.75	LB	A/A	OT2-4L	B					
	Induce	1	SO	0.25	%	V/V	OT2-4L	B					
07	CGA 362622	75	WG	0.15	OZ	A/A	OT2-4L	B	94.7	94.7	0.0	99.0	90.7
	Dupont Glyphosate	4	SC	0.75	LB	A/A	OT2-4L	B					
	Induce	1	SO	0.25	%	V/V	OT2-4L	B					
LSD (P=.05)								40.85	42.54	0.00	43.67	19.55	
Standard Deviation								22.96	23.91	0.00	24.54	10.99	
CV								34.25	31.52	0.0	60.99	22.09	
Bartlett's X2								16.303	23.27	0.0	9.229	6.202	
P(Bartlett's X2)								0.012*	0.001*	0.00*	0.01*	0.102	

# University of Georgia

## Flumioxazin/Glyphosate Premix for Burndown in Soybean

Trial ID: 01-A-12  
Location: Athens

Study Dir.: Vencill  
Investigator: William K. Vencill

### GENERAL TRIAL INFORMATION

**Study Director:** Vencill **Title:** \_\_\_\_\_  
**Affiliation:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_

**Investigator:** William K. Vencill **Title:** \_\_\_\_\_  
**Affiliation:** University of Georgia  
**Postal Code:** 30602

### TRIAL LOCATION

**City:** Athens **Trial Status:** Interim  
**State/Prov.:** Ga. **Trial Reliability:** \_\_\_\_\_  
**Postal Code:** 30602 **Initiation Date:** Apr-15-01  
**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.	_____	_____

**Crop 1:** \_\_\_\_\_ Soybeans **Variety:** \_\_\_\_\_  
**Planting Date:** \_\_\_\_\_ **Planting Method:** 2-Row Planter  
**Rate:** 8 FT **Depth:** 1 IN **Perennial Age:** \_\_\_\_\_  
**Row Spacing:** 38 IN **Seed Bed:** Strip-Tilled  
**Soil Temperature:** 88 F **Soil Moisture:** Moist **Emergence Date:** Jun-25-01

### SITE AND DESIGN

**Plot Width, Unit:** 10 FT **Plot Length, Unit:** 40 FT **Reps:** 3  
**Site Type:** \_\_\_\_\_  
**Tillage Type:** Conventional **Study Design:** RANDOMIZED COMPLETE BLOCK

# University of Georgia

**Trial Initiation Comments:**

Previous Crops	Previous Pesticides	Year
1. _____	_____	_____

**MAINTENANCE**

**Field Prep./Maintenance:**

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

**SOIL DESCRIPTION**

% Sand: 76	% OM: 0.77	Texture: Sandy Loam
% Silt: 16	pH: 5.9	Soil Name: Cecil Sandy Loam
% Clay: 8	CEC: _____	Fert. Level: Good

**ADDITIONAL MEASURED ELEMENTS**

Element	Quantity	Unit
_____	_____	_____

**MOISTURE CONDITIONS**

Date	Time	Amount	Unit	Type	Interval	Unit
1. _____	_____	_____	_____	_____	_____	_____

Overall Moisture Conditions: Dry

Closest Weather Station: UGA Plant Science Farm

Distance: 0.05 Unit: Mi

**APPLICATION DESCRIPTION**

	A	B
Application Date:	May-17-01	Jul-16-01
Time of Day:	10:30 AM	11:30AM
Application Method:	BKPK	Tractor
Application Timing:	PRPL	Post
Applic. Placement:	Broadcast	Broadcast
Air Temp., Unit:	84 F	88 F
% Relative Humidity:	55	81
Wind Velocity, Unit:	3 MPH	2 MPH
Dew Presence (Y/N):	Y	N
Water Hardness:	_____	_____
Soil Temp., Unit:	82 F	86 F
Soil Moisture:	Dry	Dry
% Cloud Cover:	5	0

**CROP STAGE AT EACH APPLICATION**

	A	B
Crop 1 Code, Stage:	_____	_____
Stage Scale:	_____	_____
Height, Unit:	_____	_____

# University of Georgia

## WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	_____	_____
Stage Scale:	_____	_____
Density, Unit:	_____	_____

## APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BKPK	Tractor
Operating Pressure:	30 PSI	30 PSI
Nozzle Type:	DG	DG
Nozzle Size:	11003VK	11003VK
Nozzle Spacing, Unit:	20 IN	20 IN
Nozzles/Row:	1	1
Band Width, Unit:	_____	_____
Boom Length, Unit:	6 FT	10 FT
Boom Height, Unit:	14 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH
Incorporation Equip.:	_____	_____
Hours to Incorp.:	_____	_____
Incorp. Depth, Unit:	_____	_____
Carrier:	Water	WATER
Spray Volume, Unit:	20 GPA	20 GPA
Spray pH:	_____	_____
Propellant:	CO2	PTO
Tank Mix (Y/N):	Y	N

Trt No Treatment Application Comment

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# University of Georgia

## Flumioxazin/Glyphosate Premix for Burndown in Soybean

Trial ID: 01-A-12  
Location: Athens

Study Dir.: Vencill  
Investigator: William K. Vencill

Weed Code	cheal	casob	amapa	rumcr	cheal
Rating Unit					
Rating Date	Jul-27-01	Jul-27-01	Jul-27-01	Jul-27-01	Sep-12-01

ARM Action Codes  
# Subsamples, Dec.

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code					
01	Untreated							0.0	0.0	0.0	0.0	0.0
02	Roundup Ultra Max 5	5	SC	1	LB A/A	PRPL A	A	93.0	78.3	97.7	80.0	86.3
	Roundup Ultra Max 5	5	SC	1	LB A/A	POST B	B					
03	Valor	50	WG	0.063	LB A/A	PRPL A	A	99.0	78.3	92.7	83.3	93.3
	Roundup Ultra Max 5	5	SC	1	LB A/A	PRPL A	A					
	Roundup Ultra Max 5	5	SC	1	LB A/A	POST B	B					
04	V-10080	4.25	SC	1.063	LB A/A	PRPL A	A	99.0	80.0	99.0	83.3	95.0
	Roundup Ultra Max 5	5	SC	1	LB A/A	POST B	B					
05	Authority	75	WG	0.117	LB A/A	PRPL A	A	99.0	73.3	99.0	85.0	91.7
	Roundup Ultra Max 5	5	SC	1	LB A/A	PRPL A	A					
	Roundup Ultra Max 5	5	SC	1	LB A/A	POST B	B					
06	V-3153	57.6	WG	0.018	LB A/A	PRPL A	A	97.0	38.3	99.0	83.3	91.7
	Roundup Ultra Max 5	5	SC	1	LB A/A	PRPL A	A					
	Roundup Ultra Max 5	5	SC	1	LB A/A	POST B	B					
07	Aim	40	DF	0.010	LB A/A	PRPL A	A	74.7	80.0	99.0	83.3	82.7
	Roundup Ultra Max 5	5	SC	1	LB A/A	PRPL A	A					
	Roundup Ultra Max 5	5	SC	1	LB A/A	POST B	B					
LSD (P=.05)								16.96	28.83	7.66	7.64	16.70
Standard Deviation								9.53	16.20	4.31	4.30	9.39
CV								11.88	26.48	5.14	6.03	12.15
Bartlett's X2								9.343	6.775	3.508	2.486	11.777
P(Bartlett's X2)								0.009*	0.238	0.061	0.647	0.019*



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Weed Code				sidsp	amapa	Yield	Yield
Rating Unit						g/plot	g/plot
Rating Date				Sep-12-01	Sep-12-01	Nov-04-01	Nov-04-01
ARM Action Codes							TY1
# Subsamples, Dec.							1
Trt	Treatment	Form	Form	Rate	Grow	Appl	
No.	Name	Conc	Type	Rate	Unit	Stg	Code
01	Untreated						
02	Roundup Ultra Max 5	50	SC	1	LB A/A	PRPL A	0.0 0.0 1276.07 34.2
	Roundup Ultra Max 5	50	SC	1	LB A/A	POST B	89.7 91.3 1235.93 33.1
03	Valor	50	WG	0.063	LB A/A	PRPL A	86.7 95.0 1095.37 29.3
	Roundup Ultra Max 5	50	SC	1	LB A/A	PRPL A	
	Roundup Ultra Max 5	50	SC	1	LB A/A	POST B	
04	V-10080	4.25	SC	1.063	LB A/A	PRPL A	86.7 93.3 1091.40 29.2
	Roundup Ultra Max 5	50	SC	1	LB A/A	POST B	
05	Authority	75	WG	0.117	LB A/A	PRPL A	94.3 96.3 1291.63 34.6
	Roundup Ultra Max 5	50	SC	1	LB A/A	PRPL A	
	Roundup Ultra Max 5	50	SC	1	LB A/A	POST B	
06	V-3153	57.6	WG	0.018	LB A/A	PRPL A	90.0 95.7 1254.67 33.6
	Roundup Ultra Max 5	50	SC	1	LB A/A	PRPL A	
	Roundup Ultra Max 5	50	SC	1	LB A/A	POST B	
07	Aim	40	DF	0.010	LB A/A	PRPL A	80.0 94.7 1033.00 27.7
	Roundup Ultra Max 5	50	SC	1	LB A/A	PRPL A	
	Roundup Ultra Max 5	50	SC	1	LB A/A	POST B	
LSD (P=.05)							9.57 6.12 709.687 19.01
Standard Deviation							5.38 3.44 398.892 10.69
CV							7.14 4.25 33.73 33.73
Bartlett's X2							2.859 5.73 6.394 6.394
P(Bartlett's X2)							0.722 0.22 0.381 0.381

# University of Georgia

## Adjuvant Impacts on Roundup Ultra Max

Trial ID: 01-A-20  
Location: Athens

Study Dir.: Vencill  
Investigator: William K. Vencill

### GENERAL TRIAL INFORMATION

**Study Director:** Vencill **Title:** \_\_\_\_\_  
**Affiliation:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_

**Investigator:** William K. Vencill **Title:** \_\_\_\_\_  
**Affiliation:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_

### TRIAL LOCATION

**City:** Watkinsville **Trial Status:** Interim  
**State/Prov.:** GA **Trial Reliability:** \_\_\_\_\_  
**Postal Code:** 30606 **Initiation Date:** \_\_\_\_\_  
**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.	AMAPA Palmer Amaranth	Amaranthus palmerii
2.	CASOB Sicklepod	Senna obtusifolia
3.	PANTE Texas panicum	Panicum texanum
4.	IPOPU Tall morningglory	Ipomoea purpurea
5.	IPOHE Entireleaf morningglory	Ipomoea hederacea
6.	CYPES Yellow nutsedge	Cyperus esculentus

**Crop 1:** GLYMX soybean **Variety:** Pritchard RR  
**Planting Date:** Jun-26-01 **Planting Method:** 4-row planter  
**Rate:** 1 ft **Depth:** 1 in **Perennial Age:** \_\_\_\_\_  
**Row Spacing:** 30 in **Seed Bed:** chiseled  
**Soil Temperature:** 85 F **Soil Moisture:** good **Emergence Date:** Jul-03-01

# University of Georgia

### SITE AND DESIGN

Plot Width, Unit: 10 FT Plot Length, Unit: 20 FT Reps: 3  
 Site Type: \_\_\_\_\_  
 Tillage Type: conventional Study Design: RANDOMIZED COMPLETE BLOCK

### Trial Initiation Comments:

Previous Crops Previous Pesticides Year  
 1. soybean glyphosate 2000

### MAINTENANCE

### Field Prep./Maintenance:

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

### SOIL DESCRIPTION

% Sand: 76 % OM: 0.8 Texture: sandy loam  
 % Silt: 16 pH: 5.9 Soil Name: Cecil  
 % Clay: 8 CEC: \_\_\_\_\_ Fert. Level: good

### ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit
_____	_____	_____

### MOISTURE CONDITIONS

Date	Time	Amount	Unit	Type	Interval	Unit
1.	_____	_____	_____	_____	_____	_____

Overall Moisture Conditions: good from mid-May to mid-July  
 Closest Weather Station: UGA Plant Sciences Farm Distance: 1 Unit: mi

### APPLICATION DESCRIPTION

**A**  
 Application Date: Jul-13-01  
 Time of Day: 12:30pm  
 Application Method: Bkpk  
 Application Timing: POST  
 Applic. Placement: Brdcast  
 Air Temp., Unit: 85 F  
 % Relative Humidity: 58  
 Wind Velocity, Unit: 2 mph  
 Dew Presence (Y/N): N  
 Water Hardness: \_\_\_\_\_  
 Soil Temp., Unit: 85 F  
 Soil Moisture: good  
 % Cloud Cover: 80

# University of Georgia

## CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage: GLYMX \_\_\_\_\_  
 Stage Scale: 2nd tirfo  
 Height, Unit: 6 inch

## WEED STAGE AT EACH APPLICATION

A

Weed 1 Code, Stage: AMAPA \_\_\_\_\_  
 Stage Scale: 4"  
 Density, Unit: 10 ft2

Weed 2 Code, Stage: CASOB \_\_\_\_\_  
 Stage Scale: 2"  
 Density, Unit: 5 ft2

Weed 3 Code, Stage: PANTE \_\_\_\_\_  
 Stage Scale: 4"  
 Density, Unit: 1 ft2

Weed 4 Code, Stage: IPOPU \_\_\_\_\_  
 Stage Scale: 2"  
 Density, Unit: 3 ft2

Weed 5 Code, Stage: IPOHE \_\_\_\_\_  
 Stage Scale: 2"  
 Density, Unit: 3 ft2

Weed 6 Code, Stage: CYPES \_\_\_\_\_  
 Stage Scale: \_\_\_\_\_  
 Density, Unit: \_\_\_\_\_

## APPLICATION EQUIPMENT

A

Appl. Equipment: Bkpk  
 Operating Pressure: 20 PSI  
 Nozzle Type: flat-fan  
 Nozzle Size: 11003DG  
 Nozzle Spacing, Unit: 20 in  
 Nozzles/Row: 1  
 Band Width, Unit: \_\_\_\_\_  
 Boom Length, Unit: 6 ft  
 Boom Height, Unit: 14 in  
 Ground Speed, Unit: 3 mph  
 Incorporation Equip.: \_\_\_\_\_  
 Hours to Incorpor.: \_\_\_\_\_  
 Incorp. Depth, Unit: \_\_\_\_\_  
 Carrier: water  
 Spray Volume, Unit: 10 \_\_\_\_\_  
 Spray pH: \_\_\_\_\_  
 Propellant: CO2  
 Tank Mix (Y/N): N

Trt No Treatment Application Comment





# University of Georgia

Weed Code						pante	cypes	inj	amapa	
Rating Date						Jul-20-01	Jul-27-01	Jul-27-01	Jul-27-01	
Trt-Eval Interval						7 DA-A	7 DA-A	14 DA-A	14 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code			
01	Roundup Ultra Max	5	SC	0.5	LB A/A	POST A	99.0	58.3	0.0	73.3
	PX331	1	SO	2.5	% V/V	POST A				
02	Roundup Ultra Max	5	SC	0.5	LB A/A	POST A	97.7	53.3	0.0	96.3
	PX334	100	SG	18	LB/100 GAL	POST A				
03	Roundup Ultra Max	5	SC	0.5	LB A/A	POST A	99.0	60.0	0.0	96.3
	PX 338	100	SG	1	LB/100 GAL	POST A				
04	Roundup Ultra Max	5	SC	0.5	LB A/A	POST A	99.0	65.0	0.0	98.3
	Hook	1	SO	0.25	% V/V	POST A				
05	Roundup Ultra Max	5	SC	0.5	LB A/A	POST A	99.0	58.3	0.0	96.3
	Ammonium Sulfate	100	SG	8.5	LB A/100 GAL	POST A				
	Hook	1	SO	0.25	% V/V	POST A				
06	Roundup UltraMax	4	SC	0.5	LB A/A	POST A	99.0	36.7	0.0	97.7
07	Glyphosate	4	SC	0.5	LB A/A	POST A	99.0	73.3	0.0	98.3
	Ammonium Sulfate	100	SG	8.5	LB A/100 GAL	POST A				
08	Glyphosate	4	SC	0.5	LB A/A	POST A	97.7	53.3	0.0	99.0
	PX 331	100	SG	2.5	% V/V	POST A				
09	Glyphosate	4	SC	0.5	LB A/A	POST A	99.0	53.3	0.0	99.0
	Hook	1	SO	0.25	% V/V	POST A				
10	Glyphosate	4	SC	0.5	LB A/A	POST A	99.0	65.0	0.0	99.0
	Ammonium Sulfate	100	SG	8.5	LB A/100 GAL	POST A				
	Hook	1	SO	0.25	% V/V	POST A				
11	Glyphosate	4	EC	0.5	LB A/A	POST A	96.0	66.7	0.0	98.7
	Exchange	1	SO	0.375	% V/V	POST A				
12	Glyphosate	4	EC	0.5	LB A/A	POST A	99.0	60.0	0.0	98.7
	Exchange	1	SO	0.375	% V/V	POST A				
	Ammonium Sulfate	100	SG	8.5	LB A/100 GAL	POST A				
13	Glyphosate	4	EC	0.5	LB A/A	POST A	99.0	60.0	0.0	99.0
	PX 335	100	SG	20	LB A/100 GAL	POST A				
14	Glyphosate	4	EC	0.5	LB A/A	POST A	99.0	66.7	0.0	99.0
LSD (P=.05)							2.79	13.36	0.00	5.41
Standard Deviation							1.66	7.96	0.00	3.22
CV							1.69	13.42	0.0	3.34
Bartlett's X2							1.835	8.955	0.0	28.615
P(Bartlett's X2)							0.399	0.776	0.00*	0.001*

# University of Georgia

Weed Code						ipopu	casob	cypes	inj		
Rating Date						Jul-27-01	Jul-27-01	Aug-03-01	Aug-03-01		
Trt-Eval Interval						14 DA-A	14 DA-A	14 DA-A	21 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
01	Roundup Ultra Max 5	5	SC	0.5	LB A/A	POST A		61.7	71.7	80.0	0.0
	PX331	1	SO	2.5	% V/V	POST A					
02	Roundup Ultra Max 5	5	SC	0.5	LB A/A	POST A		85.0	91.7	75.0	0.0
	PX334	100	SG	18	LB/100 GAL	POST A					
03	Roundup Ultra Max 5	5	SC	0.5	LB A/A	POST A		86.7	93.3	70.0	0.0
	PX 338	100	SG	1	LB/100 GAL	POST A					
04	Roundup Ultra Max 5	5	SC	0.5	LB A/A	POST A		80.0	91.3	71.7	0.0
	Hook	1	SO	0.25	% V/V	POST A					
05	Roundup Ultra Max 5	5	SC	0.5	LB A/A	POST A		81.7	83.3	71.7	0.0
	Ammonium Sulfate	100	SG	8.5	LB A/100 GAL	POST A					
	Hook	1	SO	0.25	% V/V	POST A					
06	Roundup UltraMax	4	SC	0.5	LB A/A	POST A		71.7	85.0	70.0	0.0
07	Glyphosate	4	SC	0.5	LB A/A	POST A		80.0	85.0	73.3	0.0
	Ammonium Sulfate	100	SG	8.5	LB A/100 GAL	POST A					
08	Glyphosate	4	SC	0.5	LB A/A	POST A		80.0	90.7	73.3	0.0
	PX 331	100	SG	2.5	% V/V	POST A					
09	Glyphosate	4	SC	0.5	LB A/A	POST A		78.3	90.7	72.0	0.0
	Hook	1	SO	0.25	% V/V	POST A					
10	Glyphosate	4	SC	0.5	LB A/A	POST A		88.3	91.3	73.3	0.0
	Ammonium Sulfate	100	SG	8.5	LB A/100 GAL	POST A					
	Hook	1	SO	0.25	% V/V	POST A					
11	Glyphosate	4	EC	0.5	LB A/A	POST A		70.0	88.3	70.0	0.0
	Exchange	1	SO	0.375	% V/V	POST A					
12	Glyphosate	4	EC	0.5	LB A/A	POST A		85.3	92.7	66.7	0.0
	Exchange	1	SO	0.375	% V/V	POST A					
	Ammonium Sulfate	100	SG	8.5	LB A/100 GAL	POST A					
13	Glyphosate	4	EC	0.5	LB A/A	POST A		83.3	91.7	68.3	0.0
	PX 335	100	SG	20	LB A/100 GAL	POST A					
14	Glyphosate	4	EC	0.5	LB A/A	POST A		70.0	90.0	66.7	0.0
LSD (P=.05)								19.00	13.03	7.57	0.00
Standard Deviation								11.32	7.76	4.51	0.00
CV								14.38	8.79	6.3	0.0
Bartlett's X2								17.339	17.974	9.215	0.0
P(Bartlett's X2)								0.184	0.158	0.684	0.00*

# University of Georgia

Weed Code					ipopu	casob	amapa	cypes			
Rating Date					Aug-03-01	Aug-03-01	Aug-03-01	Aug-10-01			
Trt-Eval Interval					21 DA-A	21 DA-A	21 DA-A	21 DA-A			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code				
01	Roundup Ultra Max	5	SC	0.5	LB A/A	POST	A	69.0	80.0	86.7	66.7
	PX331	1	SO	2.5	% V/V	POST	A				
02	Roundup Ultra Max	5	SC	0.5	LB A/A	POST	A	85.0	90.0	90.0	66.7
	PX334	100	SG	18	LB/100 GAL	POST	A				
03	Roundup Ultra Max	5	SC	0.5	LB A/A	POST	A	83.3	93.3	97.7	60.0
	PX 338	100	SG	1	LB/100 GAL	POST	A				
04	Roundup Ultra Max	5	SC	0.5	LB A/A	POST	A	76.7	91.7	93.7	55.0
	Hook	1	SO	0.25	% V/V	POST	A				
05	Roundup Ultra Max	5	SC	0.5	LB A/A	POST	A	86.0	86.7	97.7	56.7
	Ammonium Sulfate	100	SG	8.5	LB A/100 GAL	POST	A				
	Hook	1	SO	0.25	% V/V	POST	A				
06	Roundup UltraMax	4	SC	0.5	LB A/A	POST	A	73.3	86.0	97.7	55.0
07	Glyphosate	4	SC	0.5	LB A/A	POST	A	80.0	83.3	96.0	58.3
	Ammonium Sulfate	100	SG	8.5	LB A/100 GAL	POST	A				
08	Glyphosate	4	SC	0.5	LB A/A	POST	A	77.7	90.0	99.0	56.7
	PX 331	100	SG	2.5	% V/V	POST	A				
09	Glyphosate	4	SC	0.5	LB A/A	POST	A	71.7	91.7	99.0	60.0
	Hook	1	SO	0.25	% V/V	POST	A				
10	Glyphosate	4	SC	0.5	LB A/A	POST	A	81.0	85.0	99.0	55.0
	Ammonium Sulfate	100	SG	8.5	LB A/100 GAL	POST	A				
	Hook	1	SO	0.25	% V/V	POST	A				
11	Glyphosate	4	EC	0.5	LB A/A	POST	A	76.7	88.3	97.0	58.3
	Exchange	1	SO	0.375	% V/V	POST	A				
12	Glyphosate	4	EC	0.5	LB A/A	POST	A	83.3	93.0	96.0	56.7
	Exchange	1	SO	0.375	% V/V	POST	A				
	Ammonium Sulfate	100	SG	8.5	LB A/100 GAL	POST	A				
13	Glyphosate	4	EC	0.5	LB A/A	POST	A	80.0	93.3	99.0	56.7
	PX 335	100	SG	20	LB A/100 GAL	POST	A				
14	Glyphosate	4	EC	0.5	LB A/A	POST	A	76.7	93.3	97.7	51.7
LSD (P=.05)								15.59	9.94	4.14	10.57
Standard Deviation								9.29	5.92	2.47	6.30
CV								11.82	6.66	2.57	10.84
Bartlett's X2								12.752	15.724	5.127	6.905
P(Bartlett's X2)								0.467	0.264	0.744	0.864





# University of Georgia

**Trial Initiation Comments:**

Previous Crops	Previous Pesticides	Year
1. _____		

**MAINTENANCE**

**Field Prep./Maintenance:**

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

**SOIL DESCRIPTION**

% Sand: 71	% OM: 1.0	Texture: Sandy Loam
% Silt: 13	pH: 6.5	Soil Name: Faceville Sandy
% Clay: 16	CEC: _____	Fert. Level: Good

**ADDITIONAL MEASURED ELEMENTS**

Element	Quantity	Unit
_____		

**MOISTURE CONDITIONS**

Date	Time	Amount	Unit	Type	Interval	Unit
1. _____						

**Overall Moisture Conditions:** Dry

**Closest Weather Station:** Southwest Branch Exp. Station    **Distance:** 0.5    **Unit:** MI

**APPLICATION DESCRIPTION**

	A	B	C
Application Date:	Jun-18-01	_____	_____
Time of Day:	12:30 PM	_____	_____
Application Method:	BKPK	_____	_____
Application Timing:	Layby	_____	_____
Applic. Placement:	Direct	_____	_____
Air Temp., Unit:	84 F	_____	_____
% Relative Humidity:	65	_____	_____
Wind Velocity, Unit:	5 MPH	_____	_____
Dew Presence (Y/N):	N	_____	_____
Water Hardness:	_____	_____	_____
Soil Temp., Unit:	82 F	_____	_____
Soil Moisture:	Moist	_____	_____
% Cloud Cover:	0	_____	_____

**CROP STAGE AT EACH APPLICATION**

	A	B	C
Crop 1 Code, Stage:	_____	_____	_____
Stage Scale:	_____	_____	_____
Height, Unit:	_____	_____	_____

# University of Georgia

## WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	_____ AMAPA	_____	_____
Stage Scale:	6 IN	_____	_____
Density, Unit:	5 FT2	_____	_____
Weed 2 Code, Stage:	_____ DEDTO	_____	_____
Stage Scale:	4 IN	_____	_____
Density, Unit:	2 FT2	_____	_____
Weed 3 Code, Stage:	_____ EPHHE	_____	_____
Stage Scale:	4 IN	_____	_____
Density, Unit:	10 FT2	_____	_____
Weed 4 Code, Stage:	_____ PANTE	_____	_____
Stage Scale:	2 IN	_____	_____
Density, Unit:	3 FT2	_____	_____
Weed 5 Code, Stage:	_____ CASOB	_____	_____
Stage Scale:	2 IN	_____	_____
Density, Unit:	10 FT2	_____	_____
Weed 6 Code, Stage:	_____ IPOXX	_____	_____
Stage Scale:	3 IN	_____	_____
Density, Unit:	2 FT2	_____	_____

## APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	BKPK	_____	_____
Operating Pressure:	30 PSI	_____	_____
Nozzle Type:	Flat Fan	_____	_____
Nozzle Size:	11003VK	_____	_____
Nozzle Spacing, Unit:	_____	_____	_____
Nozzles/Row:	_____	_____	_____
Band Width, Unit:	_____	_____	_____
Boom Length, Unit:	_____	_____	_____
Boom Height, Unit:	3 IN	_____	_____
Ground Speed, Unit:	3 MPH	_____	_____
Incorporation Equip.:	_____	_____	_____
Hours to Incorp.:	_____	_____	_____
Incorp. Depth, Unit:	_____	_____	_____
Carrier:	Water	_____	_____
Spray Volume, Unit:	20 GPA	_____	_____
Spray pH:	_____	_____	_____
Propellant:	C02	_____	_____
Tank Mix (Y/N):	Y	_____	_____

### Trt No Treatment Application Comment

\_\_\_ May 25, 2001 sprayed Roundup Ultra Max over top with tractor



# University of Georgia

Weed Code	inj	casob	amapa	ephhe	Yield
Rating Unit					lb/plot
Rating Date	Jul-17-01	Jul-17-01	Jul-17-01	Jul-17-01	Oct-23-01
ARM Action Codes					
# Subsamples, Dec.					

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	inj	casob	amapa	ephhe	Yield
01	Untreated							0.0	0.0	0.0	0.0	17.400
02	Valor	50	DG	0.032	LB	A/A	Layby A	0.0	97.7	99.0	99.0	17.417
	NIS	1	SO	0.25	%	V/V	Layby A					
3	Valor	50	DG	0.063	LB	A/A	Layby A	0.0	97.7	97.7	93.0	14.583
	NIS	1	SO	0.25	%	V/V	Layby A					
4	Valor	50	DG	0.032	LB	A/A	Layby A	1.7	99.0	99.0	96.0	17.867
	MSMA	6	EC	2	LB	A/A	Layby A					
	NIS	1	SO	0.25	%	V/V	Layby A					
5	Valor	50	DG	0.063	LB	A/A	Layby A	0.0	99.0	99.0	99.0	14.633
	MSMA	6	EC	2	LB	A/A	Layby A					
	NIS	1	SO	0.25	%	V/V	Layby A					
6	Roundup Ultra Max	5	SC	1	LB	A/A	Layby A	0.0	99.0	99.0	99.0	16.533
7	MSMA	6	EC	2	LB	A/A	Layby A	0.0	99.0	99.0	94.3	15.783
	NIS	1	SO	0.25	%	V/V	Layby A					
08	Valor	50	DG	0.032	LB	A/A	Layby A	0.0	97.7	96.0	91.3	15.933
	Roundup Ultra Max	5	SC	1	LB	A/A	Layby A					
09	Valor	50	DG	0.063	LB	A/A	Layby A	0.0	99.0	99.0	96.0	16.900
	Roundup Ultra Max	5	SC	1	LB	A/A	Layby A					
10	Valor	50	DG	0.032	LB	A/A	Layby A	0.0	99.0	99.0	99.0	17.617
	Touchdown 4	4	EC	1	LB	A/A	Layby A					
	NIS	1	SO	0.25	%	V/V	Layby A					
11	V-10080	4.25	SC	1.063	LB	A/A	Layby A	0.0	99.0	99.0	92.7	18.083
	NIS	1	SO	0.25	%	V/V	Layby A					
12	V-10080	4.25	SC	1.063	LB	A/A	Layby A	0.0	99.0	99.0	94.3	16.433
	NIS	1	SO	0.25	%	V/V	Layby A					
	Ammonium Sulfate	100	FD	2.5	LB/A		Layby A					
13	V-10080	4.25	SC	1.063	LB	A/A	Layby A	1.7	99.0	99.0	96.0	16.500
	Impressive	100	DA	2.25	LB/A		Layby A					
14	Karmex	50	DG	0.75	LB	A/A	Layby A	0.0	99.0	99.0	99.0	16.283
	MSMA	6	EC	2	LB	A/A	Layby A					
	COC	1	SO	1	LB	A/A	Layby A					
LSD (P=.05)								1.87	1.79	2.59	9.72	3.3697
Standard Deviation								1.11	1.07	1.54	5.79	2.0073
CV								466.99	1.17	1.68	6.49	12.11
Bartlett's X2								0.0	0.0	1.171	2.673	8.482
P(Bartlett's X2)								1.00	1.00	0.279	0.914	0.811

# University of Georgia

Weed Code	Yield
Rating Unit	lb/A
Rating Date	Oct-23-01
ARM Action Codes	TY1
# Subsamples, Dec.	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	Yield
01	Untreated							3609.3
02	Valor	50	DG	0.032	LB	A/A	Layby A	3612.7
	NIS	1	SO	0.25	%	V/V	Layby A	
3	Valor	50	DG	0.063	LB	A/A	Layby A	3025.0
	NIS	1	SO	0.25	%	V/V	Layby A	
4	Valor	50	DG	0.032	LB	A/A	Layby A	3706.1
	MSMA	6	EC	2	LB	A/A	Layby A	
	NIS	1	SO	0.25	%	V/V	Layby A	
5	Valor	50	DG	0.063	LB	A/A	Layby A	3035.4
	MSMA	6	EC	2	LB	A/A	Layby A	
	NIS	1	SO	0.25	%	V/V	Layby A	
6	Roundup Ultra Max	5	SC	1	LB	A/A	Layby A	3429.5
7	MSMA	6	EC	2	LB	A/A	Layby A	3273.9
	NIS	1	SO	0.25	%	V/V	Layby A	
08	Valor	50	DG	0.032	LB	A/A	Layby A	3305.0
	Roundup Ultra Max	5	SC	1	LB	A/A	Layby A	
09	Valor	50	DG	0.063	LB	A/A	Layby A	3505.5
	Roundup Ultra Max	5	SC	1	LB	A/A	Layby A	
10	Valor	50	DG	0.032	LB	A/A	Layby A	3654.2
	Touchdown 4	4	EC	1	LB	A/A	Layby A	
	NIS	1	SO	0.25	%	V/V	Layby A	
11	V-10080	4.25	SC	1.063	LB	A/A	Layby A	3751.0
	NIS	1	SO	0.25	%	V/V	Layby A	
12	V-10080	4.25	SC	1.063	LB	A/A	Layby A	3408.7
	NIS	1	SO	0.25	%	V/V	Layby A	
	Ammonium Sulfate	100	FD	2.5	LB/A		Layby A	
13	V-10080	4.25	SC	1.063	LB	A/A	Layby A	3422.6
	Impressive	100	DA	2.25	LB/A		Layby A	
14	Karmex	50	DG	0.75	LB	A/A	Layby A	3377.6
	MSMA	6	EC	2	LB	A/A	Layby A	
	COC	1	SO	1	LB	A/A	Layby A	

LSD (P=.05)	699.00
Standard Deviation	416.39
CV	12.12
Bartlett's X2	8.482
P(Bartlett's X2)	0.811

# University of Georgia

## Layby Options in RR Cotton

Trial ID: 01-P-2 Study Dir.: Vencill  
Location: Plains Investigator: William K. Vencill

### GENERAL TRIAL INFORMATION

**Study Director:** Vencill **Title:** \_\_\_\_\_  
**Affiliation:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_  
**Investigator:** William K. Vencill **Title:** \_\_\_\_\_  
**Affiliation:** University of Georgia  
**Postal Code:** 30602

### TRIAL LOCATION

**City:** Athens **Trial Status:** Interim  
**State/Prov.:** Ga. **Trial Reliability:** \_\_\_\_\_  
**Postal Code:** 30602 **Initiation Date:** May-07-01  
**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.	_____	_____

**Crop 1:** \_\_\_\_\_ Cotton **Variety:** Suregrow 501BR RR  
**Planting Date:** May-07-01 **Planting Method:** 2-Row Planter  
**Rate:** 6 FT **Depth:** 1 IN **Perennial Age:** \_\_\_\_\_  
**Row Spacing:** 36 IN **Seed Bed:** Bed  
**Soil Temperature:** 78 F **Soil Moisture:** Dry **Emergence Date:** May-14-01

### SITE AND DESIGN

**Plot Width, Unit:** 10 FT **Plot Length, Unit:** 35 FT **Reps:** 3  
**Site Type:** \_\_\_\_\_  
**Tillage Type:** Conventional **Study Design:** RANDOMIZED COMPLETE BLOCK

# University of Georgia

**Trial Initiation Comments:**

Previous Crops	Previous Pesticides	Year
1. _____		

**MAINTENANCE**

**Field Prep./Maintenance:**

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

**SOIL DESCRIPTION**

% Sand: 71	% OM: 1.0	Texture: Sandy Loam
% Silt: 13	pH: 6.5	Soil Name: Faceville Sandy
% Clay: 16	CEC: _____	Fert. Level: Good

**ADDITIONAL MEASURED ELEMENTS**

Element	Quantity	Unit
_____		

**MOISTURE CONDITIONS**

Date	Time	Amount	Unit	Type	Interval	Unit
1. _____						

**Overall Moisture Conditions:** Dry

**Closest Weather Station:** Southwest Branch Exp. Station    **Distance:** 0.5    **Unit:** MI

**APPLICATION DESCRIPTION**

	A	B
<b>Application Date:</b>	May-25-01	Jun-18-01
<b>Time of Day:</b>	9:00 AM	1:00 PM
<b>Application Method:</b>	Tractor	BKPK
<b>Application Timing:</b>	OT4-5L	Post-D
<b>Applic. Placement:</b>	Broadcast	Direct
<b>Air Temp., Unit:</b>	70 F	84 F
<b>% Relative Humidity:</b>	67	65
<b>Wind Velocity, Unit:</b>	3 MPH	5 MPH
<b>Dew Presence (Y/N):</b>	N	N
<b>Water Hardness:</b>	_____	_____
<b>Soil Temp., Unit:</b>	76 F	82 F
<b>Soil Moisture:</b>	Dry	Moist
<b>% Cloud Cover:</b>	_____	0

**CROP STAGE AT EACH APPLICATION**

	A	B
<b>Crop 1 Code, Stage:</b>	_____	_____
<b>Stage Scale:</b>	_____	_____
<b>Height, Unit:</b>	_____	_____



# University of Georgia

## WEED STAGE AT EACH APPLICATION

	A	B	
Weed 1 Code, Stage:	_____	_____	AMAPA
Stage Scale:	_____	4 IN	
Density, Unit:	_____	5 FT2	
Weed 2 Code, Stage:	_____	_____	DEDTO
Stage Scale:	_____	3 IN	
Density, Unit:	_____	3 FT2	
Weed 3 Code, Stage:	_____	_____	CASOB
Stage Scale:	_____	2 IN	
Density, Unit:	_____	10 FT2	
Weed 4 Code, Stage:	_____	_____	PANTE
Stage Scale:	_____	2 IN	
Density, Unit:	_____	2 FT2	
Weed 5 Code, Stage:	_____	_____	EPHHE
Stage Scale:	_____	3 IN	
Density, Unit:	_____	10 FT2	
Weed 6 Code, Stage:	_____	_____	IPOXX
Stage Scale:	_____	2 IN	
Density, Unit:	_____	3 FT2	

## APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	Tractor	BKPK
Operating Pressure:	30 PSI	30 PSI
Nozzle Type:	_____	Flat Fan
Nozzle Size:	_____	11003VK
Nozzle Spacing, Unit:	_____	_____
Nozzles/Row:	_____	1
Band Width, Unit:	_____	_____
Boom Length, Unit:	_____	_____
Boom Height, Unit:	_____	3 IN
Ground Speed, Unit:	3 PSI	3 MPH
Incorporation Equip.:	_____	_____
Hours to Incorp.:	_____	_____
Incorp. Depth, Unit:	_____	_____
Carrier:	Water	Water
Spray Volume, Unit:	20 GPA	20 GPA
Spray pH:	_____	_____
Propellant:	PTO	CO2
Tank Mix (Y/N):	N	Y

Trt No Treatment Application Comment

\_\_\_ Cultivated day of POST-D



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	Strongarm	84	WG	0.025	LB A/A	POST-D	C				
15	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	6.7	99.0	94.3	99.0
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C				
	V-3153	57.6	WG	0.018	LB A/A	POST-D	C				

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# University of Georgia

Weed Code inj ephhe casob pante  
 Rating Unit  
 Rating Date Jun-27-01 Jun-27-01 Jun-27-01 Jun-27-01  
 ARM Action Codes  
 # Subsamples, Dec.

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code				
16	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	5.0	99.0	97.7	99.0
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST_D	C				
	UGA2001	70	WG	0.1	LB A/A	POST-D	C				
17	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	5.0	88.0	97.7	99.0
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST_D	C				
18	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT 2	A	0.0	81.7	91.7	96.0
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B				
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C				
19	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	0.0	92.7	99.0	99.0
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C				
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	Layby	D				
20	Untreated							0.0	0.0	0.0	0.0
LSD (P=.05)								8.25	13.00	5.66	4.68
Standard Deviation								5.00	7.88	3.43	2.83
CV								107.1	9.02	3.74	3.03
Bartlett's X2								7.044	6.848	8.717	6.344
P(Bartlett's X2)								0.721	0.811	0.559	0.096

# University of Georgia

Weed Code	ipoxx	inj	amapa	pante	ephhe
Rating Unit					
Rating Date	Jun-27-01	Jul-17-01	Jul-17-01	Jul-17-01	Jul-17-01
ARM Action Codes					
# Subsamples, Dec.					

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code					
01	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	99.0	0.0	0.0	0.0	0.0
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C					
	Direx	80	WP	0.5	LB A/A	POST-D	C					
02	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	99.0	1.7	99.0	99.0	99.0
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C					
	Direx	80	WP	0.75	LB A/A	POST-D	C					
03	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	99.0	8.3	99.0	99.0	88.0
	MON 78230	5.88	SC	1.59	LB A/A	POST-D	C					
04	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	99.0	0.0	99.0	99.0	91.3
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C					
	Aim	40	DF	0.0036	LB A/A	POST-D	C					
05	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	99.0	0.0	99.0	97.7	85.0
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C					
	Lorox	50	DF	0.75	LB A/A	POST-D	C					
06	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	99.0	0.0	99.0	99.0	97.7
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C					
	Amplify	84	WG	0.016	LB A/A	POST-D	C					
07	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	99.0	0.0	99.0	99.0	93.0
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C					
	Amplify	84	WG	0.032	LB A/A	POST-D	C					
08	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	99.0	16.7	99.0	99.0	99.0
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C					
	Maverick	75	DF	0.016	LB A/A	POST-D	C					
09	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	96.0	0.0	99.0	99.0	93.0
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C					
	Permit	75	DF	0.048	LB A/A	POST-D	C					
10	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	96.0	3.3	99.0	99.0	96.0
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C					
	Valor	50	DF	0.032	LB A/A	POST-D	C					
11	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	99.0	0.0	99.0	99.0	99.0
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C					
	Valor	50	DF	0.063	LB A/A	POST-D	C					
12	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	99.0	0.0	99.0	99.0	56.3
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C					
	CGA 362622	75	WG	0.004	LB A/A	POST-D	C					
13	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	99.0	0.0	99.0	99.0	99.0
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C					
	CGA 362622	75	WG	0.007	LB A/A	POST-D	C					
14	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	99.0	0.0	99.0	99.0	99.0
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C					
	Strongarm	84	WG	0.025	LB A/A	POST-D	C					
15	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	99.0	0.0	99.0	99.0	97.7
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C					
	V-3153	57.6	WG	0.018	LB A/A	POST-D	C					

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16	Roundup Ultra Max 3.7	SL	0.75	LB AE/A OT4-5L B	99.0	5.0	99.0	99.0	96.0
	Roundup Ultra Max 3.7	SL	0.75	LB AE/A POST_D C					
	UGA2001	70	WG	0.1	LB A/A	POST-D C			

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# University of Georgia

Weed Code ipoxx inj amapa pante ephhe  
 Rating Unit  
 Rating Date Jun-27-01 Jul-17-01 Jul-17-01 Jul-17-01 Jul-17-01  
 ARM Action Codes  
 # Subsamples, Dec.

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code	ipoxx	inj	amapa	pante	ephhe
17	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	99.0	0.0	99.0	99.0	91.0
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST_D	C					
18	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT 2	A	99.0	1.7	99.0	99.0	96.0
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B					
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C					
19	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	99.0	0.0	99.0	99.0	92.7
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C					
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	Layby	D					
20	Untreated							0.0	0.0	0.0	0.0	0.0
LSD (P=.05)								2.75	5.24	0.00	0.85	19.62
Standard Deviation								1.66	3.17	0.00	0.52	11.89
CV								1.78	173.05	0.0	0.58	14.25
Bartlett's X2								0.0	4.831	0.0	0.0	38.147
P(Bartlett's X2)								1.00	0.437	0.00*	0.00*	0.001*

# University of Georgia

Weed Code				Yield					
Rating Unit				lb/plot		lb/A			
Rating Date				Oct-23-01		Oct-23-01			
ARM Action Codes						TY1			
# Subsamples, Dec.						1			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Yield	Yield
01	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	17.017	3529.7
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C		
	Direx	80	WP	0.5	LB A/A	POST-D	C		
02	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	17.400	3609.3
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C		
	Direx	80	WP	0.75	LB A/A	POST-D	C		
03	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	15.167	3146.0
	MON 78230	5.88	SC	1.59	LB A/A	POST-D	C		
04	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	16.367	3394.9
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C		
	Aim	40	DF	0.0036	LB A/A	POST-D	C		
05	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	16.733	3471.0
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST_D	C		
	Lorox	50	DF	0.75	LB A/A	POST-D	C		
06	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	16.550	3432.9
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C		
	Amplify	84	WG	0.016	LB A/A	POST-D	C		
07	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	17.033	3533.2
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C		
	Amplify	84	WG	0.032	LB A/A	POST-D	C		
08	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	15.867	3291.2
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C		
	Maverick	75	DF	0.016	LB A/A	POST-D	C		
09	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	15.933	3305.0
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C		
	Permit	75	DF	0.048	LB A/A	POST-D	C		
10	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	17.783	3688.8
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST_D	C		
	Valor	50	DF	0.032	LB A/A	POST_D	C		
11	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	18.300	3795.9
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C		
	Valor	50	DF	0.063	LB A/A	POST-D	C		
12	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	17.450	3619.6
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C		
	CGA 362622	75	WG	0.004	LB A/A	POST-D	C		
13	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	18.583	3854.7
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C		
	CGA 362622	75	WG	0.007	LB A/A	POST-D	C		
14	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	16.767	3477.9
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C		
	Strongarm	84	WG	0.025	LB A/A	POST-D	C		
15	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	17.367	3602.3
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C		
	V-3153	57.6	WG	0.018	LB A/A	POST-D	C		



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16	Roundup Ultra Max 3.7	SL	0.75	LB AE/A OT4-5L B	18.167	3768.3
	Roundup Ultra Max 3.7	SL	0.75	LB AE/A POST_D C		
	UGA2001	70	WG 0.1	LB A/A POST-D C		

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# University of Georgia

Weed Code	Yield	Yield							
Rating Unit	lb/plot	lb/A							
Rating Date	Oct-23-01	Oct-23-01							
ARM Action Codes	TY1								
# Subsamples, Dec.	1								
Trt	Treatment	Form	Form	Rate	Grow	Appl			
No.	Name	Conc	Type	Rate	Unit	Stg	Code		
17	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	18.367	3809.8
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST_D	C		
18	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT 2	A	16.450	3412.2
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B		
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C		
19	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	OT4-5L	B	17.333	3595.4
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	POST-D	C		
	Roundup Ultra Max	3.7	SL	0.75	LB AE/A	Layby	D		
20	Untreated							16.017	3322.3
LSD (P=.05)								2.5713	533.38
Standard Deviation								1.5582	323.24
CV								9.15	9.15
Bartlett's X2								17.043	17.043
P(Bartlett's X2)								0.587	0.587

# University of Georgia

## Peanut Weed Mangement Systems

Trial ID: 01-P-3      Study Dir.: Vencill  
Location: Plains      Investigator: William K. Vencill

### GENERAL TRIAL INFORMATION

**Study Director:** Vencill      **Title:** \_\_\_\_\_  
**Affiliation:** University of Geogia  
**Postal Code:** 30602

**Investigator:** William K. Vencill      **Title:** \_\_\_\_\_  
**Affiliation:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_

### TRIAL LOCATION

**City:** Athens      **Trial Status:** Interim  
**State/Prov.:** Ga.      **Trial Reliability:** \_\_\_\_\_  
**Postal Code:** 30602      **Initiation Date:** May-07-01  
**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.	_____	_____

**Crop 1:** \_\_\_\_\_ Peanuts      **Variety:** Ga. Green  
**Planting Date:** May-07-01      **Planting Method:** 2-row planter  
**Rate:** 2 FT      **Depth:** 2 IN      **Perennial Age:** \_\_\_\_\_  
**Row Spacing:** 30 IN      **Seed Bed:** Bedded  
**Soil Temperature:** 78 F      **Soil Moisture:** Dry      **Emergence Date:** May-21-01

### SITE AND DESIGN

**Plot Width, Unit:** 10 FT      **Plot Length, Unit:** 35 FT      **Reps:** 3  
**Site Type:** \_\_\_\_\_  
**Tillage Type:** \_\_\_\_\_      **Study Design:** RANDOMIZED COMPLETE BLOCK

# University of Georgia

**Trial Initiation Comments:**

Previous Crops	Previous Pesticides	Year
1. _____	_____	_____

**MAINTENANCE**

**Field Prep./Maintenance:**

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

**SOIL DESCRIPTION**

% Sand: 71	% OM: 1.0	Texture: Sandy Loam
% Silt: 13	pH: 6.5	Soil Name: Faceville Sandy
% Clay: 16	CEC: _____	Fert. Level: _____

**ADDITIONAL MEASURED ELEMENTS**

Element	Quantity	Unit
_____	_____	_____

**MOISTURE CONDITIONS**

Date	Time	Amount	Unit	Type	Interval	Unit
1. _____	_____	_____	_____	_____	_____	_____

Overall Moisture Conditions: Dry

Closest Weather Station: Southwest Branch Exp. Station Distance: 0.5 Unit: MI

**APPLICATION DESCRIPTION**

	A	B	C	D	E
Application Date:	May-07-01	May-16-01	May-18-01	Jun-04-01	_____
Time of Day:	1:30 PM	11:30 AM	_____	12:00 AM	_____
Application Method:	BKPK	BKPK	Tractor	BKPK	_____
Application Timing:	PRE	2 WAP	At-crack	Post	_____
Applic. Placement:	Surface	Surface	Surface	Surface	_____
Air Temp., Unit:	72 F	87 F	_____	83 F	_____
% Relative Humidity:	59	56	_____	63	_____
Wind Velocity, Unit:	8 MPH	6 MPH	_____	1 MPH	_____
Dew Presence (Y/N):	N	N	_____	N	_____
Water Hardness:	_____	_____	_____	_____	_____
Soil Temp., Unit:	78 F	82 F	_____	80 F	_____
Soil Moisture:	Dry	Dry	_____	WET	_____
% Cloud Cover:	95	0	_____	90	_____

**CROP STAGE AT EACH APPLICATION**

	A	B	C	D
Crop 1 Code, Stage:	_____	_____	_____	_____
Stage Scale:	_____	_____	_____	_____
Height, Unit:	_____	_____	_____	_____

# University of Georgia

E

Crop 1 Code, Stage: \_\_\_\_\_  
 Stage Scale: \_\_\_\_\_  
 Height, Unit: \_\_\_\_\_

### WEED STAGE AT EACH APPLICATION

A

B

C

D

Weed 1 Code, Stage: \_\_\_\_\_  
 Stage Scale: \_\_\_\_\_  
 Density, Unit: \_\_\_\_\_

E

Weed 1 Code, Stage: \_\_\_\_\_  
 Stage Scale: \_\_\_\_\_  
 Density, Unit: \_\_\_\_\_

### APPLICATION EQUIPMENT

A

B

C

D

E

Appl. Equipment:	BKPK	BKPK	TRACTOR	BKPKK	_____
Operating Pressure:	30 PSI	30 PSI	30 PSI	30 PSI	_____
Nozzle Type:	DG	DG	_____	DG	_____
Nozzle Size:	11003VK	11003VK	_____	11003VK	_____
Nozzle Spacing, Unit:	20 IN	20 IN	_____ IN	20 IN	_____
Nozzles/Row:	1	1	_____	1	_____
Band Width, Unit:	_____	_____	_____	_____	_____
Boom Length, Unit:	6 FT	6 FT	_____ FT	6 FT	_____
Boom Height, Unit:	14 IN	14 IN	_____ IN	14 IN	_____
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH	3 MPH	_____
Incorporation Equip.:	_____	_____	_____	_____	_____
Hours to Incorp.:	_____	_____	_____	_____	_____
Incorp. Depth, Unit:	_____	_____	_____	_____	_____
Carrier:	WATER	Water	Water	WATER	_____
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA	20 GPA	_____
Spray pH:	_____	_____	_____	_____	_____
Propellant:	CO2	CO2	_____	CO2	_____
Tank Mix (Y/N):	Y	N	_____	Y	_____

Trt No Treatment Application Comment

\_\_\_\_\_



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NIS	1	SO	0.25	% V/V	At-crack B
Basagran	4	EC	0.5	LB A/A	At-crack B

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# University of Georgia

Weed Code inj casob ephhe dedto inj  
 Rating Unit  
 Rating Date Jun-11-01 Jun-11-01 Jun-11-01 Jun-11-01 Jul-17-01  
 ARM Action Codes  
 # Subsamples, Dec.

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
10	Valor	50	DG	0.094	LB A/A	POST	C	75.0	98.7	99.0	69.0	20.0
	Gramoxone Max	3	EC	0.125	LB A/A	At-crack	B					
	NIS	1	SO	0.25	% V/V	At-crack	B					
	Basagran	4	EC	0.5	LB A/A	At-crack	B					
11	Ultra Blazer	2	EC	0.375	LB A/A	POST	C	13.3	70.0	97.7	94.7	0.0
	NIS	1	SO	0.25	% V/V	POST	C					
12	Ultra Blazer	2	EC	0.5	LB A/A	POST	C	17.7	71.7	96.3	97.7	0.0
	NIS	1	SO	0.25	% V/V	POST	C					
13	Cadre	70	DG	0.032	LB A/A	POST	C	15.0	91.7	94.7	97.7	3.3
	Ultra Blazer	2	EC	0.375	LB A/A	POST	C					
	NIS	1	SO	0.25	% V/V	POST	C					
14	Cadre	70	DG	0.063	LB A/A	POST	C	16.7	95.0	96.3	96.3	8.3
	Ultra Blazer	2	EC	0.375	LB A/A	POST	C					
	NIS	1	SO	0.25	% V/V	POST	C					
LSD (P=.05)								11.09	10.25	8.17	24.50	4.94
Standard Deviation								6.61	6.11	4.87	14.59	2.94
CV								53.07	7.89	5.62	16.67	117.67
Bartlett's X2								19.273	18.692	20.322	43.815	0.213
P(Bartlett's X2)								0.007*	0.067	0.041*	0.001*	0.899



# University of Georgia

Weed Code	casob	ephhe	ipohe	dedto	Yield
Rating Unit					lb/plot
Rating Date	Jul-17-01	Jul-17-01	Jul-17-01	Jul-17-01	Oct-02-01
ARM Action Codes					
# Subsamples, Dec.					

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	casob	ephhe	ipohe	dedto	Yield
01	Untreated							0.0	0.0	0.0	0.0	6.517
02	Strongarm	84	WG	0.024	LB A/A	PRE	A	71.7	91.3	96.0	96.0	16.267
	Gramoxone Max	3	EC	0.125	LB A/A	At-crack	B					
	NIS	1	SO	0.25	% V/V	At-crack	B					
	Basagran	4	EC	0.5	LB A/A	At-crack	B					
03	Valor	50	DG	0.094	LB A/A	PRE	A	16.7	23.3	31.7	33.0	13.283
	Gramoxone Max	3	EC	0.125	LB A/A	At-crack	B					
	NIS	1	SO	0.25	% V/V	At-crack	B					
	Basagran	4	EC	0.5	LB A/A	At-crack	B					
04	Strongarm	84	WG	0.024	LB A/A	PRE	A	91.3	97.7	99.0	99.0	19.050
	Gramoxone Max	3	EC	0.125	LB A/A	At-crack	B					
	NIS	1	SO	0.25	% V/V	At-crack	B					
	Basagran	4	EC	0.5	LB A/A	At-crack	B					
	Cadre	70	DG	0.016	LB A/A	POST	C					
	NIS	1	SO	0.25	% V/V	POST	C					
05	Valor	50	WG	0.094	LB A/A	PRE	A	60.0	92.7	99.0	99.0	16.600
	Strongarm	84	WG	0.016	LB A/A	PRE	A					
	Gramoxone Max	3	EC	0.125	LB A/A	At-crack	B					
	NIS	1	SO	0.25	% V/V	At-crack	B					
	Basagran	4	EC	0.5	LB A/A	At-crack	B					
06	Valor	50	WG	0.094	LB A/A	PRE	A	95.0	99.0	99.0	99.0	19.300
	Strongarm	84	WG	0.016	LB A/A	PRE	A					
	Gramoxone Max	3	EC	0.125	LB A/A	At-crack	B					
	NIS	1	SO	0.25	% V/V	At-crack	B					
	Basagran	4	EC	0.5	LB A/A	At-crack	B					
	Cadre	70	DG	0.016	LB A/A	POST	C					
	NIS	1	SO	0.25	% V/V	POST	C					
07	Valor	50	WG	0.063	LB A/A	PRE	A	86.0	99.0	99.0	99.0	15.900
	Strongarm	84	WG	0.016	LB A/A	PRE	A					
	Gramoxone Max	3	EC	0.125	LB A/A	At-crack	B					
	NIS	1	SO	0.25	% V/V	At-crack	B					
	Basagran	4	EC	0.5	LB A/A	At-crack	B					
	Cadre	70	DG	0.016	LB A/A	POST	C					
	NIS	1	SO	0.25	% V/V	POST	C					
08	Valor	50	DG	0.094	LB A/A	PRE	A	99.0	99.0	99.0	99.0	20.300
	Strongarm	84	WG	0.024	LB A/A	PRE	A					
	Cadre	70	DG	0.063	LB A/A	POST	C					
	NIS	1	SO	0.25	% V/V	POST	C					
09	Valor	50	DG	0.094	LB A/A	1 WAP	D	75.0	86.7	99.0	99.0	13.350
	Gramoxone Max	3	EC	0.125	LB A/A	At-crack	B					
	NIS	1	SO	0.25	% V/V	At-crack	B					
	Basagran	4	EC	0.5	LB A/A	At-crack	B					
10	Valor	50	DG	0.094	LB A/A	POST	C	99.0	99.0	99.0	99.0	11.233
	Gramoxone Max	3	EC	0.125	LB A/A	At-crack	B					

	NIS	1	SO	0.25	% V/V	At-crack	B					
	Basagran	4	EC	0.5	LB A/A	At-crack	B					
11	Ultra Blazer	2	EC	0.375	LB A/A	POST	C	61.7	96.3	97.7	96.0	14.500
	NIS	1	SO	0.25	% V/V	POST	C					

# University of Georgia

Weed Code	casob	ephhe	ipohe	dedto	Yield
Rating Unit					lb/plot
Rating Date	Jul-17-01	Jul-17-01	Jul-17-01	Jul-17-01	Oct-02-01
ARM Action Codes					
# Subsamples, Dec.					

Trt	Treatment	Form	Form	Rate	Grow	Appl						
No.	Name	Conc	Type	Rate	Unit	Stg	Code					
12	Ultra Blazer	2	EC	0.5	LB A/A	POST	C	43.3	90.0	99.0	97.7	13.483
	NIS	1	SO	0.25	% V/V	POST	C					
13	Cadre	70	DG	0.032	LB A/A	POST	C	88.3	97.7	99.0	94.3	14.400
	Ultra Blazer	2	EC	0.375	LB A/A	POST	C					
	NIS	1	SO	0.25	% V/V	POST	C					
14	Cadre	70	DG	0.063	LB A/A	POST	C	96.3	97.7	97.7	97.7	14.567
	Ultra Blazer	2	EC	0.375	LB A/A	POST	C					
	NIS	1	SO	0.25	% V/V	POST	C					
LSD (P=.05)								18.26	19.43	24.60	26.21	6.0962
Standard Deviation								10.87	11.57	14.65	15.61	3.6315
CV								15.48	13.86	16.9	18.1	24.35
Bartlett's X2								21.125	32.081	22.76	29.59	12.691
P(Bartlett's X2)								0.012*	0.001*	0.001*	0.001*	0.472

# University of Georgia

Weed Code	Yield
Rating Unit	lb/A
Rating Date	Oct-02-01
ARM Action Codes	TY2
# Subsamples, Dec.	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	Yield
01	Untreated							1351.7
02	Strongarm	84	WG	0.024	LB A/A	PRE	A	3374.2
	Gramoxone Max	3	EC	0.125	LB A/A	At-crack	B	
	NIS	1	SO	0.25	% V/V	At-crack	B	
	Basagran	4	EC	0.5	LB A/A	At-crack	B	
03	Valor	50	DG	0.094	LB A/A	PRE	A	2755.3
	Gramoxone Max	3	EC	0.125	LB A/A	At-crack	B	
	NIS	1	SO	0.25	% V/V	At-crack	B	
	Basagran	4	EC	0.5	LB A/A	At-crack	B	
04	Strongarm	84	WG	0.024	LB A/A	PRE	A	3951.5
	Gramoxone Max	3	EC	0.125	LB A/A	At-crack	B	
	NIS	1	SO	0.25	% V/V	At-crack	B	
	Basagran	4	EC	0.5	LB A/A	At-crack	B	
	Cadre	70	DG	0.016	LB A/A	POST	C	
	NIS	1	SO	0.25	% V/V	POST	C	
05	Valor	50	WG	0.094	LB A/A	PRE	A	3443.3
	Strongarm	84	WG	0.016	LB A/A	PRE	A	
	Gramoxone Max	3	EC	0.125	LB A/A	At-crack	B	
	NIS	1	SO	0.25	% V/V	At-crack	B	
	Basagran	4	EC	0.5	LB A/A	At-crack	B	
06	Valor	50	WG	0.094	LB A/A	PRE	A	4003.4
	Strongarm	84	WG	0.016	LB A/A	PRE	A	
	Gramoxone Max	3	EC	0.125	LB A/A	At-crack	B	
	NIS	1	SO	0.25	% V/V	At-crack	B	
	Basagran	4	EC	0.5	LB A/A	At-crack	B	
	Cadre	70	DG	0.016	LB A/A	POST	C	
	NIS	1	SO	0.25	% V/V	POST	C	
07	Valor	50	WG	0.063	LB A/A	PRE	A	3298.1
	Strongarm	84	WG	0.016	LB A/A	PRE	A	
	Gramoxone Max	3	EC	0.125	LB A/A	At-crack	B	
	NIS	1	SO	0.25	% V/V	At-crack	B	
	Basagran	4	EC	0.5	LB A/A	At-crack	B	
	Cadre	70	DG	0.016	LB A/A	POST	C	
	NIS	1	SO	0.25	% V/V	POST	C	
08	Valor	50	DG	0.094	LB A/A	PRE	A	4210.8
	Strongarm	84	WG	0.024	LB A/A	PRE	A	
	Cadre	70	DG	0.063	LB A/A	POST	C	
	NIS	1	SO	0.25	% V/V	POST	C	
09	Valor	50	DG	0.094	LB A/A	1 WAP	D	2769.2
	Gramoxone Max	3	EC	0.125	LB A/A	At-crack	B	
	NIS	1	SO	0.25	% V/V	At-crack	B	
	Basagran	4	EC	0.5	LB A/A	At-crack	B	
10	Valor	50	DG	0.094	LB A/A	POST	C	2330.1
	Gramoxone Max	3	EC	0.125	LB A/A	At-crack	B	

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	NIS	1	SO	0.25	% V/V	At-crack	B	
	Basagran	4	EC	0.5	LB A/A	At-crack	B	
11	Ultra Blazer	2	EC	0.375	LB A/A	POST	C	3007.7
	NIS	1	SO	0.25	% V/V	POST	C	

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# University of Georgia

Weed Code	Yield
Rating Unit	lb/A
Rating Date	Oct-02-01
ARM Action Codes	TY2
# Subsamples, Dec.	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Yield
12	Ultra Blazer	2	EC	0.5	LB A/A	POST	C	2796.8
	NIS	1	SO	0.25	% V/V	POST	C	
13	Cadre	70	DG	0.032	LB A/A	POST	C	2987.0
	Ultra Blazer	2	EC	0.375	LB A/A	POST	C	
	NIS	1	SO	0.25	% V/V	POST	C	
14	Cadre	70	DG	0.063	LB A/A	POST	C	3021.5
	Ultra Blazer	2	EC	0.375	LB A/A	POST	C	
	NIS	1	SO	0.25	% V/V	POST	C	
LSD (P=.05)								1264.54
Standard Deviation								753.27
CV								24.35
Bartlett's X2								12.691
P(Bartlett's X2)								0.472

# University of Georgia

## Effect of Nozzle Tips on Valor Layby in Cotton

Trial ID: 01-P-4      Study Dir.: Vencill  
Location: Plains      Investigator: William K. Vencill

### GENERAL TRIAL INFORMATION

**Study Director:** Vencill      **Title:** \_\_\_\_\_  
**Affiliation:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_

**Investigator:** William K. Vencill      **Title:** \_\_\_\_\_  
**Affiliation:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_

### TRIAL LOCATION

**City:** Plains      **Trial Status:** Final  
**State/Prov.:** GA      **Trial Reliability:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_      **Initiation Date:** \_\_\_\_\_  
**Country:** \_\_\_\_\_      **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:** To examine efficacy and crop response to Valor PD with different nozzles.

**Conclusions:** Some differences were found in early-season crop injury with some nozzles (Floodjet). However, these effects diminished and no yield effects were observed.

### CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	_____	_____

**Crop 1:** GLYMX    cotton      **Variety:** Suregrow 501BR RR  
**Planting Date:** May-07-01      **Planting Method:** 2-row planter  
**Rate:** 6    ft      **Depth:** 1    in      **Perennial Age:** \_\_\_\_\_  
**Row Spacing:** 36    in      **Seed Bed:** bedded  
**Soil Temperature:** 78    F      **Soil Moisture:** dry      **Emergence Date:** May-14-01

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## SITE AND DESIGN

Plot Width, Unit: 10 FT Plot Length, Unit: 20 FT Reps: 3  
 Site Type: \_\_\_\_\_  
 Tillage Type: conventional Study Design: RANDOMIZED COMPLETE BLOCK

### Trial Initiation Comments:

Previous Crops	Previous Pesticides	Year
1. cotton	Roundup	2000

## MAINTENANCE

**Field Prep./Maintenance:** Roundup Ultra was broadcast over the entire area at 2-leaf stage of cotton at the 0.75 lb ae/A rate. Entire area was cultivated after layby treatments were applied.

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

## SOIL DESCRIPTION

% Sand: 71	% OM: 1	Texture: Sandy Loam
% Silt: 13	pH: 6.5	Soil Name: Faceville Sandy Loam
% Clay: 16	CEC: _____	Fert. Level: Good

## ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit
_____	_____	_____

## MOISTURE CONDITIONS

Date	Time	Amount	Unit	Type	Interval	Unit
1.	_____	_____	_____	_____	_____	_____

**Overall Moisture Conditions:** Dry early, but moist from mid-June to August  
**Closest Weather Station:** Southwest GA Branch Exp Stn **Distance:** 0.5 **Unit:** mi

## APPLICATION DESCRIPTION

	A	B
Application Date:	Jun-18-01	_____
Time of Day:	1:00 pm	_____
Application Method:	BKPK	_____
Application Timing:	Layby	_____
Applic. Placement:	Directed	_____
Air Temp., Unit:	84 F	_____
% Relative Humidity:	65	_____
Wind Velocity, Unit:	5 mph	_____
Dew Presence (Y/N):	N	_____
Water Hardness:	_____	_____
Soil Temp., Unit:	82 F	_____
Soil Moisture:	moist	_____
% Cloud Cover:	0	_____



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## CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage: GLYMX \_\_\_\_\_  
 Stage Scale: \_\_\_\_\_  
 Height, Unit: \_\_\_\_\_

## WEED STAGE AT EACH APPLICATION

A

B

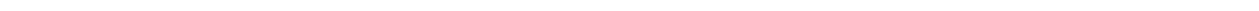
Weed 1 Code, Stage:	_____ AMAPA	_____
Stage Scale:	4"	_____
Density, Unit:	5 ft <sup>2</sup>	_____
Weed 2 Code, Stage:	_____ DEDTO	_____
Stage Scale:	3"	_____
Density, Unit:	3 ft <sup>2</sup>	_____
Weed 3 Code, Stage:	_____ CASOB	_____
Stage Scale:	2"	_____
Density, Unit:	10 ft <sup>2</sup>	_____
Weed 4 Code, Stage:	_____ PANTE	_____
Stage Scale:	2"	_____
Density, Unit:	2 ft <sup>2</sup>	_____
Weed 5 Code, Stage:	_____ EPHHE	_____
Stage Scale:	3"	_____
Density, Unit:	10 ft <sup>2</sup>	_____
Weed 6 Code, Stage:	_____ IPOXX	_____
Stage Scale:	2"	_____
Density, Unit:	3 ft <sup>2</sup>	_____

## APPLICATION EQUIPMENT

A

Appl. Equipment: BKPK  
 Operating Pressure: 30 PSI  
 Nozzle Type: Flat-fan  
 Nozzle Size: 11003DG  
 Nozzle Spacing, Unit: \_\_\_\_\_  
 Nozzles/Row: 1  
 Band Width, Unit: \_\_\_\_\_  
 Boom Length, Unit: \_\_\_\_\_  
 Boom Height, Unit: \_\_\_\_\_  
 Ground Speed, Unit: 3 mph  
 Incorporation Equip.: \_\_\_\_\_  
 Hours to Incorpor.: \_\_\_\_\_  
 Incorp. Depth, Unit: \_\_\_\_\_  
 Carrier: water  
 Spray Volume, Unit: 20 GPA  
 Spray pH: \_\_\_\_\_  
 Propellant: CO2  
 Tank Mix (Y/N): Y

Trt No Treatment Application Comment



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## Effect of Nozzle Tips on Valor Layby in Cotton

Trial ID: 01-P-4      Study Dir.: Vencill  
 Location: Plains      Investigator: William K. Vencill

Weed Code	inj	casob	ephhe	pante
Rating Unit				
Rating Date	Jun-27-01	Jun-27-01	Jun-27-01	Jun-27-01
Trt-Eval Interval	9 DA-A	9 DA-A	9 DA-A	9 DA-A
ARM Action Codes				
# Subsamples, Dec.				

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	inj	casob	ephhe	pante
01	Untreated							0.0			
02	Valor	50	DG	0.063	LB A/A	Layby	A	1.7	99.0	99.0	99.0
	Impressive	1	WP	2.5	LB/A	Layby	A				
	Even Flat-fan TeeJet 8003										
03	Valor	50	DG	0.063	LB A/A	Layby	A	5.0	99.0	99.0	99.0
	Impressive	1	WP	2.5	LB/A	Layby	A				
	UB 8503 underleaf banding										
04	Valor	50	DG	0.063	LB A/A	Layby	A	15.0	99.0	99.0	99.0
	Impressive	1	WP	2.5	LB/A	Layby	A				
	DG Teejet 8003										
05	Valor	50	DG	0.063	LB A/A	Layby	A	5.0	91.0	82.7	89.3
	Impressive	1	WP	2.5	LB/A	Layby	A				
	Turbo TeeJet 11003										
06	Valor	50	DG	0.063	LB A/A	Layby	A	6.7	91.0	91.0	96.0
	Impressive	1	WP	2.5	LB/A	Layby	A				
	XR TeeJet 8003										
07	Valor	50	DG	0.063	LB A/A	Layby	A	20.0	99.0	99.0	99.0
	Impressive	1	WP	2.5	LB/A	Layby	A				
	Turbo FloodjetTF-VS4										
08	Valor	50	DG	0.063	LB A/A	Layby	A	11.7	96.0	99.0	97.7
	Impressive	1	WP	2.5	LB/A	Layby	A				
	TwinJet 8003EVS										
09	Valor	50	DG	0.063	LB A/A	Layby	A	8.3	99.0	99.0	97.7
	Impressive	1	WP	2.5	LB/A	Layby	A				
	80015LP low-pressure tip										
10	Valor	50	DG	0.063	LB A/A	Layby	A	11.7	99.0	99.0	99.0
	Impressive	1	WP	2.5	LB/A	Layby	A				
	Full Cone jet FL-5VS										
11	Valor	50	DG	0.063	LB A/A	Layby	A	8.3	94.7	91.0	92.7
	Impressive	1	WP	2.5	LB/A	Layby	A				
	AI11003VS air-induction										
LSD (P=.05)								9.66	10.85	17.97	11.11
Standard Deviation								5.67	6.37	10.55	6.52
CV								66.87	7.25	12.12	7.41
Bartlett's X2								9.324	3.594	1.413	9.877
P(Bartlett's X2)								0.316	0.309	0.493	0.043*

# University of Georgia

Weed Code	ipoxx	inj	amapa	ephhe
Rating Unit				
Rating Date	Jun-27-01	Jul-17-01	Jul-17-01	Jul-17-01
Trt-Eval Interval	9 DA-A	29 DA-A	29 DA-A	29 DA-A
ARM Action Codes				
# Subsamples, Dec.				

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code				
01	Untreated							0.0	0.0	0.0	0.0
02	Valor	50	DG	0.063	LB A/A	Layby	A	99.0	0.0	99.0	99.0
	Impressive	1	WP	2.5	LB/A	Layby	A				
	Even Flat-fan TeeJet 8003										
03	Valor	50	DG	0.063	LB A/A	Layby	A	99.0	0.0	99.0	97.7
	Impressive	1	WP	2.5	LB/A	Layby	A				
	UB 8503 underleaf banding										
04	Valor	50	DG	0.063	LB A/A	Layby	A	99.0	1.7	99.0	99.0
	Impressive	1	WP	2.5	LB/A	Layby	A				
	DG Teejet 8003										
05	Valor	50	DG	0.063	LB A/A	Layby	A	92.7	0.0	99.0	97.7
	Impressive	1	WP	2.5	LB/A	Layby	A				
	Turbo TeeJet 11003										
06	Valor	50	DG	0.063	LB A/A	Layby	A	97.7	0.0	99.0	99.0
	Impressive	1	WP	2.5	LB/A	Layby	A				
	XR TeeJet 8003										
07	Valor	50	DG	0.063	LB A/A	Layby	A	99.0	8.3	99.0	99.0
	Impressive	1	WP	2.5	LB/A	Layby	A				
	Turbo FloodjetTF-VS4										
08	Valor	50	DG	0.063	LB A/A	Layby	A	99.0	3.3	99.0	97.7
	Impressive	1	WP	2.5	LB/A	Layby	A				
	TwinJet 8003EVS										
09	Valor	50	DG	0.063	LB A/A	Layby	A	99.0	1.7	99.0	99.0
	Impressive	1	WP	2.5	LB/A	Layby	A				
	80015LP low-pressure tip										
10	Valor	50	DG	0.063	LB A/A	Layby	A	99.0	1.7	99.0	99.0
	Impressive	1	WP	2.5	LB/A	Layby	A				
	Full Cone jet FL-5VS										
11	Valor	50	DG	0.063	LB A/A	Layby	A	96.0	1.7	99.0	96.7
	Impressive	1	WP	2.5	LB/A	Layby	A				
	AI11003VS air-induction										
LSD (P=.05)								6.47	5.78	0.00	2.79
Standard Deviation								3.80	3.39	0.00	1.64
CV								4.26	203.6	0.0	1.83
Bartlett's X2								3.9	3.979	0.0	1.03
P(Bartlett's X2)								0.142	0.552	0.00*	0.794

# University of Georgia

Weed Code			casob	Yield	Yield				
Rating Unit				lb/plot	lb/A				
Rating Date			Jul-17-01	Oct-23-01	Oct-23-01				
Trt-Eval Interval			29 DA-A	127 DA-A	127 DA-A				
ARM Action Codes			TY2						
# Subsamples, Dec.			1						
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code			
01	Untreated						0.0	19.000	3941.1
02	Valor	50	DG	0.063 LB	A/A	Layby A	97.7	19.000	3941.1
	Impressive	1	WP	2.5 LB/A		Layby A			
	Even Flat-fan TeeJet 8003								
03	Valor	50	DG	0.063 LB	A/A	Layby A	99.0	20.017	4152.0
	Impressive	1	WP	2.5 LB/A		Layby A			
	UB 8503 underleaf banding								
04	Valor	50	DG	0.063 LB	A/A	Layby A	99.0	19.267	3996.5
	Impressive	1	WP	2.5 LB/A		Layby A			
	DG Teejet 8003								
05	Valor	50	DG	0.063 LB	A/A	Layby A	97.7	19.950	4138.2
	Impressive	1	WP	2.5 LB/A		Layby A			
	Turbo TeeJet 11003								
06	Valor	50	DG	0.063 LB	A/A	Layby A	99.0	19.533	4051.8
	Impressive	1	WP	2.5 LB/A		Layby A			
	XR TeeJet 8003								
07	Valor	50	DG	0.063 LB	A/A	Layby A	99.0	17.487	3627.2
	Impressive	1	WP	2.5 LB/A		Layby A			
	Turbo FloodjetTF-VS4								
08	Valor	50	DG	0.063 LB	A/A	Layby A	99.0	18.617	3861.6
	Impressive	1	WP	2.5 LB/A		Layby A			
	TwinJet 8003EVS								
09	Valor	50	DG	0.063 LB	A/A	Layby A	99.0	19.417	4027.6
	Impressive	1	WP	2.5 LB/A		Layby A			
	80015LP low-pressure tip								
10	Valor	50	DG	0.063 LB	A/A	Layby A	96.0	19.967	4141.7
	Impressive	1	WP	2.5 LB/A		Layby A			
	Full Cone jet FL-5VS								
11	Valor	50	DG	0.063 LB	A/A	Layby A	99.0	17.800	3692.2
	Impressive	1	WP	2.5 LB/A		Layby A			
	AI11003VS air-induction								
LSD (P=.05)							2.90	1.8840	390.77
Standard Deviation							1.70	1.1061	229.43
CV							1.9	5.79	5.79
Bartlett's X2							1.82	6.29	6.291
P(Bartlett's X2)							0.403	0.79	0.79