

University of Georgia

Cotton and weed response to glyphosate/Bidrin mixtures.

Trial ID: C47-03
Location: Sunbelt Expo

Study Dir.:
Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

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

TRIAL LOCATION

City: Moultrie **Trial Status:** completed
State/Prov.: Ga **Trial Reliability:** excellent
Country: U.S.A. **Initiation Date:** May-21-03

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Crop 1: GOSHI cotton **Variety:** FM 989 BR
Planting Date: May-09-03 **Planting Method:** conventional
Rate: 3 seed/ft **Depth:** 0.5 in
Row Spacing: 36 inch **Spacing Within Row:** 4 inch **Seed Bed:** slight bed
Soil Temperature: 83 F **Soil Moisture:** moist **Emergence Date:** May-14-03

SITE AND DESIGN

Plot Width, Unit: 12 FT **Plot Length, Unit:** 22 FT **Reps:** 4
Site Type: Sunbelt expo
Tillage Type: conventional **Study Design:** RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 88 **% OM:** 1.2 **Texture:** .
% Silt: 12 **pH:** 6 **Soil Name:** .
% Clay: 0

APPLICATION DESCRIPTION

	A
Application Date:	May-21-03
Time of Day:	11:00am
Application Method:	Broadcast
Application Timing:	1-leaf
Applic. Placement:	overtop
Air Temp., Unit:	82 F
% Relative Humidity:	54
Wind Velocity, Unit:	2 mph
Dew Presence (Y/N):	n
Soil Temp., Unit:	78 F
Soil Moisture:	moist
% Cloud Cover:	75

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	GOSHI 1-leaf
Stage Scale:	V1
Height, Unit:	2.5 inch

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APPLICATION EQUIPMENT

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

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Crop Code			GOSHI	GOSHI	GOSHI
Rating Data Type			injury	injury	injury
Rating Unit			percent	percent	percent
Rating Date			May-23-03	May-28-03	May-30-03
Trt No.	Treatment Name	Rate Rate Unit	1	2	3
1	Roundup WeatherMax	22 oz/a	0.0	0.0	0.0
2	Roundup WeatherMax Bidrin	22 oz/a 4 oz/a	0.0	0.0	0.0
3	Glyphosate original	32 oz/a	0.0	0.0	0.0
4	Glyphosate original Bidrin	32 oz/a 4 oz/a	0.0	0.0	0.0
5	Glyphosate original LI700	32 oz/a 0.25 % v/v	0.0	0.0	0.0
6	Glyphosate original LI700 Bidrin	32 oz/a 0.25 % v/v 4 oz/a	0.0	0.0	0.0
7	Glyphosate original AMS	32 oz/a 2 lb/a	0.0	0.0	0.0
8	Glyphosate original AMS Bidrin	32 oz/a 2 lb/a 4 oz/a	0.0	0.0	0.0
9	Touchdown IQ	32 oz/a	0.0	0.0	0.0
10	Touchdown IQ Bidrin	32 oz/a 4 oz/a	0.0	0.0	0.0
11	Bidrin	4 oz/a	0.0	0.0	0.0
12	Non-treatd		0.0	0.0	0.0
LSD (P=.05)			0.00	0.00	0.00
Standard Deviation			0.00	0.00	0.00
CV			0.0	0.0	0.0
Bartlett's X2			0.0	0.0	0.0
P(Bartlett's X2)			.	.	.

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

Trial Comments

OBJECTIVE: Evaluate the potential for cotton injury when mixing Bidrin with various glyphosate formulations.

RESULTS:

1) Mixing Bidrin with any of the five glyphosate formulations used in this trial did not cause visual cotton injury.