

University of Georgia

RR sweet corn response to RU + Atrazine or RU + Atrazine + Sandea.

Trial ID: Veg42-14

Study Dir.: Stanley Culpepper

Location: Ponder Farm

Investigator: Stanley Culpepper

Use 1 liters(s) per treatment mixture to spray 14.8 gal/ac

Plots: 6 by 30 feet

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No.	By Rep	1	2	3	4
1	Roundup WMAX	4.5	L	1	qt/a	POST	A	16.89 ml/mx	101	202	301	402		
	Atrazine	4	L	1	qt/a	POST	A	16.89 ml/mx						
	Sandea	75	DF	1	oz/a	POST	A	0.506 g/mx						
2	Roundup WMAX	4.5	L	1	qt/a	POST	A	16.89 ml/mx	102	201	302	401		
	Atrazine	4	L	1	qt/a	POST	A	16.89 ml/mx						

Sort Order: Treatment

Trial Comments

OBJECTIVE: Determine the response of sweet corn to Roundup + Atrazine + Sandea.

VISUAL INJURY:

1. No injury was detected at any time during the experiment.

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Crop Code	ZEAMS	ZEAMS	ZEAMS
Rating Data Type	injury	injury	injury
Rating Unit	percent	percent	percent
Rating Date	10/7/2014	10/13/2014	10/20/2014
Trt-Eval Interval	6 DA-A	12 DA-A	19 DA-A

Trt No.	Treatment Name	Rate	Unit	1	2	3
1	Roundup WMAX	1	qt/a	0.0	a 0.0	a 0.0
	Atrazine	1	qt/a			a
	Sandea	1	oz/a			
2	Roundup WMAX	1	qt/a	0.0	a 0.0	a 0.0
	Atrazine	1	qt/a			a

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)	.	.	.

Replicate F	0.000	0.000	0.000
Replicate Prob(F)	1.0000	1.0000	1.0000
Treatment F	0.000	0.000	0.000
Treatment Prob(F)	1.0000	1.0000	1.0000

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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GENERAL TRIAL INFORMATION

Study Director: Stanley Culpepper	Title: Ext. Weed Science
Affiliation: University of Georgia	
Postal Code: 31795	
Investigator: Stanley Culpepper	Title: Ext. Weed Science
Affiliation: University of Georgia	
Postal Code: 31795	

TRIAL LOCATION

City: TyTy	Trial Status: Completed
State/Prov.: GA	Trial Reliability: Good
Postal Code: 31795	Initiation Date: 9/9/2014
Country: USA	

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1. CYPES	yellow nutsedge	Cyperus esculentus

Crop 1: ZEAMS	CORN, SWEET	Variety: Obsession II
Planting Date: 9/10/2014	Planting Method: seeded	
Rate: 2	12 inch	Depth: 0.5 IN
Row Spacing: 15	INCH	Seed Bed: plastic
Soil Temperature: 94	F	Soil Moisture: moist
		Emergence Date: 9/15/2014

SITE AND DESIGN

Plot Width, Unit: 6	FT	Plot Length, Unit: 30	FT	Reps: 4
Site Type: UGA Ponder Farm				
Tillage Type: Plasticulture		Study Design: RANDOMIZED COMPLETE BLOCK		

SOIL DESCRIPTION

% Sand: 90	% OM: 0.6	Texture: loamy sand
% Silt: 6	pH: 6.5	
% Clay: 4		

Overall Moisture Conditions: drip irrigation

Closest Weather Station: www.griffin.uga.edu/aemn/

Distance: 250 **Unit:** yd

APPLICATION DESCRIPTION

A
Application Date: 10/1/2014
Time of Day: 5 pm
Application Method: broadcast
Application Timing: POST
Applic. Placement: overtop
Air Temp., Unit: 82 F
% Relative Humidity: 72
Wind Velocity, Unit: 0 Y
Dew Presence (Y/N): N
Soil Temp., Unit: 90 F
Soil Moisture: moist
% Cloud Cover: 20

CROP STAGE AT EACH APPLICATION

A
Crop 1 Code, Stage: ZEAMS
Stage Scale: 6 leaf
Height, Unit: 17 IN

WEED STAGE AT EACH APPLICATION

A
Weed 1 Code, Stage: CYPES

Stage Scale: bloom
Density, Unit: 40 ydsq

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APPLICATION EQUIPMENT

A

Appl. Equipment:	BACKPACK
Operating Pressure:	26
Nozzle Type:	AIXR
Nozzle Size:	11002
Nozzle Spacing, Unit:	18 IN
Boom Length, Unit:	4.5 FT
Boom Height, Unit:	16 IN
Ground Speed, Unit:	3 MPH
Carrier:	WATER
Spray Volume, Unit:	15 GPA
Propellant:	CO2
Tank Mix (Y/N) :	Y