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Sweet corn response to herbicides when planted in mulch.

Trial ID: Veg23-08 Study Dir.: Stanley Culpepper
Location: Ponder Farm (5161) Investigator: Stanley Culpepper

Reps: 4 Plots: 6 by 20 feet
Spray vol: 14.8 gal/ac Mix size: 1 liters (min .61734)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No. By Rep 1	2	3	4
1	Sandea	75		DF	1	OZ/A	PRE	A	0.506 g/mx	101	202	304	401
	NIS			L	0.25	% V/V	PRE	A	2.5 ml/mx				
2	Sandea	75		DF	1	OZ/A	PRE	A	0.506 g/mx	102	203	305	403
	NIS			L	0.25	% V/V	PRE	A	2.5 ml/mx				
	Dual Magnum	7.62		L	1	PT/A	PRE	A	8.445 ml/mx				
3	Sandea	75		DF	1	OZ/A	PRE	A	0.506 g/mx	103	205	302	404
	NIS			L	0.25	% V/V	PRE	A	2.5 ml/mx				
	Atrazine	4		L	2	PT/A	PRE	A	16.89 ml/mx				
4	Sandea	75		DF	1	OZ/A	PRE	A	0.506 g/mx	104	201	303	405
	NIS			L	0.25	% V/V	PRE	A	2.5 ml/mx				
	Atrazine	4		L	2	PT/A	PRE	A	16.89 ml/mx				
	Dual Magnum	7.62		L	1	PT/A	POST	B	8.445 ml/mx				
5	Non-treated									105	204	301	402

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
2.530	g	Sandea	75	DF	
12.499	ml	NIS		L	
21.113	ml	Dual Magnum	7.62	L	
42.225	ml	Atrazine	4	L	

* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1 liters (mix size basis).
* Product amount calculations increased 25 % for overage adjustment.
* 'Per volume' calculations use spray volume= 14.8 gal/ac, mix size= 1 liters.

Trial Comments

OBJECTIVE: Determine sweet corn response to herbicides applied overtop of 2nd crop mulch planted with sweet corn.

SWEET CORN RESPONSE:
1. No injury was noted with any treatment throughout the crop.

GENERAL COMMENTS:
1. PRE herbicides were applied overtop of mulch and corn seeded into the mulch.
2. POST treatments were applied topically to corn and over mulch.

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Trt No.	Treatment Name	Rate	Rate Unit	ZEAMS injury % Apr-22-08 14 DA-A 1	ZEAMS injury % Apr-30-08 22 DA-A 2	ZEAMS injury % May-14-08 36 DA-A 3
	Crop Code			ZEAMS	ZEAMS	ZEAMS
	Rating Data Type			injury	injury	injury
	Rating Unit			%	%	%
	Rating Date			Apr-22-08	Apr-30-08	May-14-08
	Trt-Eval Interval			14 DA-A	22 DA-A	36 DA-A
1	Sandea	1	OZ/A	0 a	0 a	0 a
	NIS	0.25	% V/V			
2	Sandea	1	OZ/A	0 a	0 a	0 a
	NIS	0.25	% V/V			
	Dual Magnum	1	PT/A			
3	Sandea	1	OZ/A	0 a	0 a	0 a
	NIS	0.25	% V/V			
	Atrazine	2	PT/A			
4	Sandea	1	OZ/A	0 a	0 a	0 a
	NIS	0.25	% V/V			
	Atrazine	2	PT/A			
	Dual Magnum	1	PT/A			
5	Non-treated			0 a	0 a	0 a
	LSD (P=.05)			0.0	0.0	0.0
	Standard Deviation			0.0	0.0	0.0
	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)

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Location: Ponder Farm (5161) 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: TyTy **Trial Status:** completed
State/Prov.: Ga **Trial Reliability:** good
Postal Code: 31795 **Initiation Date:** Apr-08-08
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: ZEAMS sweet corn **Variety:** BSS 0977
Planting Date: Apr-07-08 **Planting Method:** seeded
Rate: 1 12 inch **Depth:** 1.5 in **Perennial Age:** ____ _____
Row Spacing: 15 inch **Spacing Within Row:** 12 inch **Seed Bed:** mulched
Soil Temperature: 90 f **Soil Moisture:** moist **Emergence Date:** _____

SITE AND DESIGN

Plot Width, Unit: 6 FT **Plot Length, Unit:** 20 FT **Reps:** 4
Site Type: Ponder Research Farm
Tillage Type: Plasticulture **Study Design:** RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

MAINTENANCE

Field Prep./Maintenance:

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

SOIL DESCRIPTION

% Sand: 94 **% OM:** 1.3 **Texture:** Loamy sand
% Silt: 2 **pH:** 6.4 **Soil Name:** Tifton sandy loam
% Clay: 4 **CEC:** _____ **Fert. Level:** _____

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: drip irrigation
Closest Weather Station: _____ **Distance:** _____ **Unit:** __

APPLICATION DESCRIPTION

	A	B
Application Date:	Apr-08-08	Apr-22-08
Time of Day:	4:00 pm	4:00 pm
Application Method:	broadcast	broadcast
Application Timing:	PRE	POST
Applic. Placement:	overtop	overtop
Air Temp., Unit:	76 F	84 F
% Relative Humidity:	45	48
Wind Velocity, Unit:	3 mph	3 mph
Dew Presence (Y/N):	N	N
Water Hardness:		
Soil Temp., Unit:	94 F	90 F
Soil Moisture:	moist	moist
% Cloud Cover:	20	20

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZEAMS PRE	ZEAMS POST
Stage Scale:	not up	not up
Height, Unit:	0 inch	0 inch

WEED STAGE AT EACH APPLICATION

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

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APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	backpack	backpack
Operating Pressure:	24	24
Nozzle Type:	flat fan	flat fan
Nozzle Size:	11002	11002
Nozzle Spacing, Unit:	18 inch	18 inch
Nozzles/Row:	4	4
Band Width, Unit:		
Boom Length, Unit:	4.5 ft	4.5 ft
Boom Height, Unit:	15 inch	15 inch
Ground Speed, Unit:	3 mph	3 mph
Incorporation Equip.:		
Hours to Incorp.:		
Incorp. Depth, Unit:		
Carrier:	water	water
Spray Volume, Unit:	15 GPA	15 GPA
Spray pH:		
Propellant:	CO2	CO2
Tank Mix (Y/N):	Y	Y

Trt No	Treatment Application Comment