

University of Georgia

CONTROLLING RR CORN FOR REPLANT

Trial ID: CN-08-24

Study Dir.: N. SHAY

Location: PONDER FARM

Investigator: Eric P. Prostko

Reps: 3

Plots: 6 by 25 feet

Appl. Amount: 15 GAL/AC

Mix Size: 1.5 L (total for 3 plots; minimum=0.5866 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Stg	Appl Code	Amt Product to Measure	Diluent	Rep 1	2	3
1	NTC					A		-	101	203	302
2	SELECT MAX INDUCE	0.97 EC		6.0 oz/a 0.25 % v/v	POST A		4.687 mL/mx 3.75 mL/mx	1491.6 mL	102	204	301
3	GRAMOXONE INDUCE	3 SL		32.0 oz/a 0.25 % v/v	POST A		25.0 mL/mx 3.75 mL/mx	1471.3 mL	103	202	304
4	LIBERTY AMSOL (34% AMS)	2.34 SL		32.0 oz/a 2.0 % v/v	POST A		25.0 mL/mx 30.0 mL/mx	1445 mL	104	201	303

Sort Order: Treatment

Trial Comments

ROUNDUP POWERMAX3 @ 22 OZ/A + AATREX @ 64 OZ/A + PROWL H2O @ 32 OZ/A - POST ON APRIL 29

SUNRISE ON MAY 8 WAS 6:42 AM

SUMMARY:

1) ON MAY 15 (7 DAT), FIELD CORN CONTROL WAS AS FOLLOWS:

SELECT MAX = 92%

GRAMOXONE = 83%

LIBERTY = 57%

2) ON JUNE 7 (30 DAT) , ALL TREATMENTS PROVIDED AT LEAST 97% CONTROL OF THE CORN.

GENERAL TRIAL INFORMATION

Study Director: N. SHAY

Affiliation: \_\_\_\_\_

Postal Code: \_\_\_\_\_

Investigator: Eric P. Prostko

Affiliation: UGA

Postal Code: \_\_\_\_\_

Title: \_\_\_\_\_

TRIAL LOCATION

City: \_\_\_\_\_

State/Prov.: \_\_\_\_\_

Postal Code: \_\_\_\_\_

Country: \_\_\_\_\_

E-Longitude of LL Corner °: \_\_\_\_\_

Altitude of LL Corner: \_\_\_\_\_ Unit: \_\_\_\_\_

Directions: \_\_\_\_\_

Trial Status: E

Trial Reliability: \_\_\_\_\_

Initiation Date: \_\_\_\_\_

Planned Completion Date: \_\_\_\_\_

N-Latitude of LL Corner °: \_\_\_\_\_

Angle y-axis to North °: \_\_\_\_\_

COOPERATOR/LANDOWNER

Cooperator: \_\_\_\_\_

Org: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_

State/Prov: \_\_\_\_\_

Postal Code: \_\_\_\_\_

Country: \_\_\_\_\_

Phone No: \_\_\_\_\_

Fax No: \_\_\_\_\_

Conducted Under GLP (Y/N): N

Guidelines: \_\_\_\_\_

Conducted Under GEP (Y/N): N

Guideline Description: \_\_\_\_\_

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Objective:

Conclusions:

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.			

Crop 1: ZEAMA      FIELD CORN      Variety: DEKALB DKC6835  
Planting Date: Apr-18-24      Planting Method: MONOSEM  
Rate: 33880      S/A      Depth: 1.5      IN      Perennial Age: \_\_\_\_\_  
Row Spacing: 36 IN      Spacing Within Row: \_\_\_\_\_      Seed Bed: \_\_\_\_\_  
Soil Temperature: \_\_\_\_\_      Soil Moisture: OPTIMUM      Emergence Date: \_\_\_\_\_

SITE AND DESIGN

Plot Width, Unit: 6      FT      Plot Length, Unit: 25 FT      Reps: 3  
Site Type: \_\_\_\_\_  
Tillage Type: CONVENTIONAL      Study Design: RACOB

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.	FALLOW		2023

MAINTENANCE

Field Prep./Maintenance: 1000 LBS/A 5-15-30 - PREPLANT  
AXILO BMZ @ 2 LBS/A ON APRIL 30  
125-0-0-16 - SIDEDRESS ON MAY1

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

SOIL DESCRIPTION

% Sand: 94      % OM: 0.53      Texture: SAND  
% Silt: 4      pH: 6.4      Soil Name: DOTHAN/FUQUAY  
% Clay: 2      CEC: 2.6      Fert. Level: GOOD

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

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MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.	Apr-19-24		0.2	IN	SPRINKLER - LATERAL MOVE		
2.	Apr-20-24		0.15	IN	SPRINKLER - LATERAL MOVE		
3.	Apr-21-24		1.0	IN	RAINFALL		
4.	May-2-24		0.3	IN	SPRINKLER - LATERAL MOVE		
5.	May-4-24		0.9	IN	RAINFALL		
6.	May-9-24		0.75	IN	RAINFALL		
7.	May-10-24		0.75	IN	RAINFALL		
8.	May-13-24		1.1	IN	RAINFALL		
9.	May-17-24		0.96	IN	RAINFALL		
10.	May-18-24		1.35	IN	RAINFALL		
11.	May-19-24		0.69	IN	RAINFALL		
12.	May-25-24		0.44	IN	RAINFALL		
13.	May-27-24		0.62	IN	RAINFALL		
14.	Jun-1-24		0.15	IN	SPRINKLER - LATERAL MOVE		
15.	Jun-3-24		0.5	IN	SPRINKLER - LATERAL MOVE		
16.	Jun-4-24		0.4	IN	SPRINKLER - LATERAL MOVE		
17.	Jun-7-24		0.25	IN	SPRINKLER - LATERAL MOVE		
18.	Jun-10-24		0.25	IN	SPRINKLER - LATERAL MOVE		
19.	Jun-11-24		0.45	IN	SPRINKLER - LATERAL MOVE		
20.	Jun-27-24		0.9	IN	RAINFALL		

Overall Moisture Conditions:

Closest Weather Station:

Distance:

Unit:

APPLICATION DESCRIPTION

	A
Application Date:	May-8-24
Time of Day:	7:15 AM
Application Method:	BROADCAST
Application Timing:	EPOST
Applic. Placement:	FOLIAGE
Air Temp., Unit:	71 F
% Relative Humidity:	97
Wind Velocity, Unit:	3 MPH
Dew Presence (Y/N):	Y
Water Hardness:	--
Soil Temp., Unit:	78 F
Soil Moisture:	OPTIMUM
% Cloud Cover:	100

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	ZEAMA,
Stage Scale:	V5
Height, Unit:	11, IN

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WEED STAGE AT EACH APPLICATION	
	A
Weed 1 Code, Stage:	
Stage Scale:	
Density, Unit:	

APPLICATION EQUIPMENT	
	A
Appl. Equipment:	BACKPACK
Operating Pressure:	35
Nozzle Type:	AIXR
Nozzle Size:	11002
Nozzle Spacing, Unit:	20 IN
Nozzles/Row:	
Band Width, Unit:	
Boom Length, Unit:	20 IN
Boom Height, Unit:	20 IN
Ground Speed, Unit:	3.5 MPH
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	WATER
Spray Volume, Unit:	15 GPA
Spray pH:	
Propellant:	CO2
Tank Mix (Y/N):	

Trt No	Treatment Application Comment

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CONTROLLING RR CORN FOR REPLANT										
Trial ID: CN-08-24		Study Dir.: N. SHAY								
Location: PONDER FARM		Investigator: Eric P. Prostko								
Crop Code							Zeama	Zeama	Zeama	Zeama
Rating Data Type							Control	Chlorosis	Necrosis	Control
Rating Unit							%	%	%	%
Rating Date							May-15-24	May-15-24	May-15-24	Jun-7-24
Trt	Treatment	Form	Form	Rate	Grow	Appl	1	2	3	4
No.	Name	Conc	Type	Rate Unit	Stg	Code				
1	NTC					A	0.0 c	0.0 d	0.0 d	0.0 c
2	SELECT MAX INDUCE	0.97 EC		6.0 oz/a 0.25 % v/v	POST A POST A		91.7 a	73.3 b	68.3 c	100.0 a
3	GRAMOXONE INDUCE	3 SL		32.0 oz/a 0.25 % v/v	POST A POST A		83.3 a	5.0 c	91.7 a	99.7 a
4	LIBERTY AMSOL (34% AMS)	2.34 SL		32.0 oz/a 2.0 % v/v	POST A POST A		56.7 b	80.0 a	76.7 b	97.7 b
LSD P=.10							12.89	4.58	7.12	1.96
Standard Deviation							8.12	2.89	4.49	1.24
CV							14.02	7.29	7.58	1.66
Grand Mean							57.92	39.58	59.17	74.33
Bartlett's X2^							3.951	3.637	3.251	3.695
P(Bartlett's X2)							0.267	0.303	0.355	0.296
Replicate F							0.411	1.000	0.724	0.709
Replicate Prob(F)							0.6806	0.4219	0.5227	0.5291
Treatment F							77.926	664.250	245.655	4824.291
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001
Rating Unit										
% = PERCENT										

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).  
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.  
^Calculated from residual.

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Crop Code							Zeama	Zeama	Zeama	Zeama
Rating Data Type							Control	Chlorosis	Necrosis	Control
Rating Unit							%	%	%	%
Rating Date							May-15-24	May-15-24	May-15-24	Jun-7-24
Trt	Treatment	Form	Form	Rate	Grow	Appl				
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot		
1	NTC					A	101		0.0	0.0
							203		0.0	0.0
							302		0.0	0.0
							Mean =		0.0	0.0
2	SELECT MAX	0.97	EC	6.0 oz/a	POST	A	102		95.0	80.0
	INDUCE			0.25 % v/v	POST	A	204		90.0	70.0
							301		90.0	70.0
							Mean =		91.7	73.3
3	GRAMOXONE	3	SL	32.0 oz/a	POST	A	103		85.0	5.0
	INDUCE			0.25 % v/v	POST	A	202		85.0	5.0
							304		80.0	5.0
							Mean =		83.3	5.0
4	LIBERTY	2.34	SL	32.0 oz/a	POST	A	104		40.0	80.0
	AMSOL (34% AMS)			2.0 % v/v	POST	A	201		65.0	80.0
							303		65.0	80.0
							Mean =		56.7	80.0

Rating Unit  
% = PERCENT