

University of Georgia

FIELD CORN SAFETY TO ASSURE II SOIL RESIDUES

Trial ID: CN-14-23
 Protocol ID: 23HC047US Location: UGA PONDER FARM Trial Year: 2023
 Project ID: 047 Project ID 2: Project ID 3:
 Study Director: Rich Zollinger Sponsor Contact: Gregory Armel
 Investigator:

Reps: 4 Plots: 6 by 25 feet
 Appl. Amount: 15 GAL/AC Mix Size: 1.5 L (total for 4 plots; minimum=0.782 L)

Trt No.	Treatment Name	Form Conc	Form Type	Description	Rate	Appl Unit	Appl Code	Appl Timing	Amt Product to Measure	Diluent	Rep			
											1	2	3	4
1	Assure II 0.88 EC	.88 EC			12 fl oz/a	A	14 DBP		9.375 mL/mx	1475.6 mL	101	209	305	410
	COC	100 SL	COC		1 % v/v	A	14 DBP		15.0 mL/mx					
2	Assure II 0.88 EC	.88 EC			24 fl oz/a	A	14 DBP		18.75 mL/mx	1466.3 mL	102	206	311	405
	COC	100 SL	COC		1 % v/v	A	14 DBP		15.0 mL/mx					
3	Assure II 0.88 EC	.88 EC			12 fl oz/a	B	7 DBP		9.375 mL/mx	1475.6 mL	103	210	304	406
	COC	100 SL	COC		1 % v/v	B	7 DBP		15.0 mL/mx					
4	Assure II 0.88 EC	.88 EC			24 fl oz/a	B	7 DBP		18.75 mL/mx	1466.3 mL	104	207	301	409
	COC	100 SL	COC		1 % v/v	B	7 DBP		15.0 mL/mx					
5	Assure II 0.88 EC	.88 EC			12 fl oz/a	C	4 DBP		9.375 mL/mx	1475.6 mL	105	201	308	411
	COC	100 SL	COC		1 % v/v	C	4 DBP		15.0 mL/mx					
6	Assure II 0.88 EC	.88 EC			24 fl oz/a	C	4 DBP		18.75 mL/mx	1466.3 mL	106	208	302	403
	COC	100 SL	COC		1 % v/v	C	4 DBP		15.0 mL/mx					
7	Assure II 0.88 EC	.88 EC			12 fl oz/a	D	1 DBP		9.375 mL/mx	1475.6 mL	107	202	306	408
	COC	100 SL	COC		1 % v/v	D	1 DBP		15.0 mL/mx					
8	Assure II 0.88 EC	.88 EC			24 fl oz/a	D	1 DBP		18.75 mL/mx	1466.3 mL	108	205	309	402
	COC	100 SL	COC		1 % v/v	D	1 DBP		15.0 mL/mx					
9	Assure II 0.88 EC	0.88 EC			12 fl oz/a	E	0 DBP		9.375 mL/mx	1475.6 mL	109	203	307	401
	COC	100 SL	COC		1 % v/v	E	0 DBP		15.0 mL/mx					
10	Assure II 0.88 EC	0.88 EC			24 fl oz/a	E	0 DBP		18.75 mL/mx	1466.3 mL	110	211	303	404
	COC	100 SL	COC		1 % v/v	E	0 DBP		15.0 mL/mx					
11	Untreated Check									-	111	204	310	407

Sort Order: Replicate 1

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Trial Comments

COC = PRIME OIL

MAINTAINED WEED-FREE

LAST TILLAGE: MARCH 21

ATRAZINE @ 32 OZ/A + DUAL MAGNUM @ 16 OZ/A - MARCH 23

GLYSTAR PLUS @ 32 OZ/A + ATRAZINE 4L @ 64 OZ/A - APRIL 19

ROUNDUP P-MAX3 @ 32 OZ/A + ZIDUA @ 2 OZ/A - APRIL 25

0 DBP TRTS WERE APPLIED BEFORE PLANTING.

HARVEST DATE: 08/28/23

HARVEST MOISTURE: 13.93%

YIELDS ADJUSTED TO 15.5%.

SUMMARY:

1) GENERALLY, ALL RATES AND TIMINGS OF ASSURE II CAUSED SIGNIFICANT FIELD CORN INJURY AND YIELD LOSS EXCEPT WHEN 12 OZ/A WAS APPLIED 14 DBP.

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General Trial Information

Study Director: Rich Zollinger **Title:** _____
Investigator: _____ **Title:** _____

Discipline: H herbicide
Status: E established

ARM Trial Created On: Mar-14-23 **Meets All Objectives:** _ **Reliability:** _____
Initiation Date: _____ **Planned Completion Date:** _____ **Interim Data Due:** _____
Completion Date: _____ **Last Possible Tour Visit:** _____

Trial Location

City: _____ **Country:** USA United States
State/Prov.: _____ **County:** _____
Postal Code: _____ **Climate Zone:** _____

Latitude of LL Corner °: _____ -
Longitude of LL Corner °: _____ -
GPS Accuracy of LL Corner: _____ -
Altitude of LL Corner: _____
Angle y-axis to North °: _____

Directions:

Keywords:

Regulations

Test Facility: _____
GEP Accreditation Number: _____
GEP Accreditation Link: _____
Certificate Expiration: _____
Conducted Under GLP: No **Official Trial ID:** _____
Conducted Under GEP: No **Official Protocol ID:** _____
Study Rules: _____

No.	Destroyed?	Crop No.	Crop Code	Crop Stage	Part Destroyed	Explanation	Method	Destruction Date	Verified By
1.									

No.	Guideline	Discipline	Description
1.			

No.	Permit Number	Permit Description
1.		

Objectives:

Determine tolerance of field corn planted 0 to 14 days after Assure II application.

Spring barley and wheat are not an option in Georgia.

Materials and Methods

Results:

Conclusions:

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Contacts	
<p>Role: STYDIR study director Study Director: Rich Zollinger Organization: Amvac Chemical Co Address 1: _____ Address 2: _____ Country: _____ City: _____ Role: INVEST investigator Investigator: _____ Organization: _____ Address 1: _____ Address 2: _____ Country: _____ City: _____ Role: SPONSR sponsor Sponsor: Gregory Armel Organization: _____ Address 1: 1508 Jeremy Lane Address 2: _____ Country: USA United States City: Rocky Mount Role: COOPER cooperater Cooperator: ERIC P. PROSTKO Organization: UNIVERSITY OF GEORGIA Address 1: 104 RESEARCH WAY Address 2: _____ Country: USA United States City: TIFTON Role: _____</p>	<p>Title: _____ Org. Type: _____ Phone No.: _____ Mobile No.: 509-209-0324 E-mail: richardz@amvac.com State/Prov: _____ Postal Code: _____</p> <p>Title: _____ Org. Type: _____ Phone No.: _____ Mobile No.: _____ E-mail: _____ State/Prov: _____ Postal Code: _____</p> <p>Title: _____ Org. Type: _____ Phone No.: _____ Mobile No.: 984-800-3750 E-mail: _____ State/Prov: NC Postal Code: 27803</p> <p>Title: _____ Org. Type: _____ Phone No.: _____ Mobile No.: 229-392-1034 E-mail: eprostko@uga.edu State/Prov: GA Postal Code: 31793</p> <p>Title: _____ Org. Type: _____ Phone No.: _____ Mobile No.: _____ E-mail: _____ State/Prov: _____ Postal Code: _____</p>
<p>Contact Name 5: _____ Organization: _____ Address 1: _____ Address 2: _____ Country: _____ City: _____</p>	<p>Title: _____ Org. Type: _____ Phone No.: _____ Mobile No.: _____ E-mail: _____ State/Prov: _____ Postal Code: _____</p>

Crop Description	
<p>Crop 1: C ZEAMX Zea mays Entry Date: Mar-14-23 Variety: DEKALB DKC-6835 Attributes: _____</p> <p>Seed Shape: _____ Perennial Age: _____</p> <p>Nursery Date: _____ Planting Date: Apr-7-23 Depth: 2 in Rows per Plot: 2 Row Spacing: 36 in Spacing within Row: _____ Soil Temperature: _____</p> <p>Emergence Date: _____</p> <p>Harvest Date: _____ Moisture Meter: _____ % Standard Moisture: 15.5 Weighing Equipment: _____</p>	<p style="text-align: center;">Corn</p> <p style="text-align: right;">BBCH Scale: BCOR</p> <p>Stage Scale: BBCH</p> <p>Seed Size: _____ Perennial Height: _____</p> <p>Planting Rate: 33880 S/A Planting Method: SEEDED seeded Planting Equipment: VP vacuum planter Seed Bed: _____ Soil Moisture: _____</p> <p>Harvest Equipment: _____ Harvested Width: 6 FT Harvested Length: 25 FT</p>

Pest Description	
<p>Pest 1 Type: W Code: ZEAMX Zea mays Common Name: Corn Attributes: Non-Enlist variety</p> <p>Establishment Date: _____ Time: _____ Establishment Rate: 33880 Seeds/A Concentration: _____ Establishment Method/Description: Seed ~10 ft strip across each rep Crop: _____</p>	<p>Entry Date: Apr-20-23 Stage Scale: BBCH Artificial Population: _</p> <p>Stage at Establishment: _____ Stage at Infestation: _____</p>

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Application Description

	A	B	C	D	E
Date	Mar-24-23	Mar-31-23	Apr-3-23	Apr-6-23	Apr-7-23
Start Time					
Stop Time	7:20 AM	7:07 AM	7:05 AM	7:04 AM	7:14 AM
Standard					
Method	BROADC	BROADC	BROADC	BROADC	BROADC
Timing	14 DBP	7 DBP	4 DBP	1 DBP	0 DBP
Placement	BROSOI	BROSOI	BROSOI	BROSOI	BROSOI
Mixed/Prepared By					
Applied By	EPP	EPP	EPP	EPP	EPP
Entry Date	Apr-20-23	Apr-20-23	Apr-20-23	Apr-20-23	Apr-20-23
Air Temperature Start, Stop	, 58 F	, 54 F	, 58 F	, 67 F	, 66 F
% Relative Humidity Start, Stop	95,	90,	84,	96,	
Wind Velocity+Dir. Start	1 MPH,	1 MPH,	0 MPH,	2 MPH,	MPH,
Wind Velocity+Dir. Stop					
Wind Velocity+Dir. Max					
Wet Leaves (Y/N)	N, no	N, no	N, no	N, no	N, no
Soil Temperature	60 F	59 F	63 F	71 F	70 F
Soil Temperature Depth					
Soil Moisture	OPTIMUM	OPTIMUM	OPTIMUM	OPTIMUM	OPTIMUM
Soil Surface Condition					
% Ground Cover					
% Cloud Cover	100	5	100	5	10
First Moisture Occurred On					
Time to First Moisture					
Amount of First Moisture					
Moisture 1 Week Before Appl.					
Moisture 6 Hours after Appl.					
Moisture 24 Hours after Appl.					
Moisture 1 Week after Appl.					
Problems with Application?					

Comment:

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Crop Stage At Each Application

	A	B	C	D	E
Crop 1 Code, BBCH Scale	ZEAMX, BCOR	ZEAMX, BCOR	ZEAMX, BCOR	ZEAMX, BCOR	ZEAMX, BCOR
Days after Emergence					
Stage Majority, Percent					
Stage Minimum, Percent					
Stage Maximum, Percent					
Diameter Average					
Diameter Minimum, Maximum					
Height Average					
Height Minimum, Maximum					
Density Average					
Density Minimum, Maximum					
Coverage					

Pest Stage At Each Application

	A	B	C	D	E
Pest 1 Code, Type, Scale	ZEAMX, W, BBCH	ZEAMX, W, BBCH	ZEAMX, W, BBCH	ZEAMX, W, BBCH	ZEAMX, W, BBCH
Establishment Interval					
Stage Majority, Percent					
Stage Minimum, Percent					
Stage Maximum, Percent					
Diameter Average					
Diameter Minimum, Maximum					
Height Average					
Height Minimum, Maximum					
Relative Density					
Density Average					
Density Minimum, Maximum					
Coverage					
Crop Part Attacked, Code					

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Application Equipment

	A	B	C	D	E
Equipment Name	BROADCAST	SAME	SAME	SAME	SAME
Equipment Type	BACCAI				
Operation Pressure	36 PSI	PSI	PSI	PSI	
Nozzle Model	DG11002				
Nozzle Type	TEEJTU				
Nozzle TradeName					
Nozzle Tip Size, Color	YELLOW,				
Nozzle Spacing	20 IN	20 IN	20 IN	20 IN	
Nozzles/Row					
Nozzle Count					
Band Width					
Spray Swath					
% Coverage					
Boom ID					
Boom Length	60.0 IN				
Boom Height	20.0 IN				
Ground Speed	3.5 MPH				
Carrier	WATER				
Water Hardness (ppm CaCO3)					
Application Amount	15 GAL/AC	15 GAL/AC	15 GAL/AC	15 GAL/AC	
Mix Overage					
Mix Size	1.5 L	1.5 L	1.5 L	1.5 L	
Spray pH					
Propellant	COMCO2	COMCO2	COMCO2	COMCO2	
Tank Mix (Y/N)					

Equipment Comment:

Treatment Appl. Comments

Trt No Treatment Application Comment

Notes

Context	Date	By	Notes
STATUS	Mar-13-23	Gregory Armel	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	Mar-13-23	Gregory Armel	Automatically added by ARM: Status changed to: E: changed by (XAVARG).

Deviations

No. 1: Date: _____ By: _____
 Deviations:
 Reasons:

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SE Definitions

	1.
Rating Timing	
SE Name	
SE Description	
Part Rated	
Rating Type	
Rating Unit/Min/Max	
Sample Size	
Collection Basis	
Reporting Basis	
Number of Subsamples	
Untreated Rating Type	
ARM Action Codes	
Pest Type, Code	
Crop Type, Code	
Required	

No. Task Comment
 1. ____

Instructions:

- **Confidential** - Do not print, publish, or share data or results of study, or any contents of this protocol.**
- **University will not claim ownership to any Intellectual Property which involves the use of any Sponsor-provided materials.**
- **Generate ARM .dat trial file only from this ARM .prt protocol file - Do not generate .dat files from non-ARM protocol versions (Word or pdf files).**

Site description:

- 5 sites with coarse textured soil: <1.3% OM
- 5 sites with coarse textured soil: >1.3% OM

NE Region (Kunkel) 2 locations = 1 site: C soil + <1.3% OM, 1 site: C soil with >1.3% OM
 S Region (Armel) 3 locations = 2 sites: C soil + <1.3% OM, 1 site: C soil with >1.3% OM
 MW Region (Porter) 3 locations = 2 sites: C soil + <1.3% OM, 1 site: C soil with >1.3% OM
 NW Region (Zollinger) 2 locations = 1 site: C soil + <1.3% OM, 1 site: C soil with > 1.3% OM

1. Allow 14 days from 1st application to planting that will require weed free conditions through crop emergence.
Start treatment applications (14 DBP) early so planting of spring crops is done during NORMAL April/May planting.
2. ****Quizalofop is extremely lipophilic (water solubility = 0.03 ppm). Greater than 1 inch of water (irrigation or precipitation) is REQUIRED within 5-7 days after planting. Irrigation capability is required to provide >1 inch of water/precipitation with 7 days after planting if rainfall is not sufficient.**
3. Establish in conventional till at a location with few broadleaf weed seeds in the soil.
 Do not place in area where glyphosate resistance weeds are located.
 Plots must be free of weeds prior to emergence to avoid confounding injury evaluations.
****If needed apply each treatments with glyphosate at 1 lb ae/A to kill small emerged weeds and or apply glyphosate after planting and before crop emergence to maintain weed free conditions.**

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4. Plot size = 10 ft wide x 30 or 40 ft long depending on crop planter width.
 Apply treatments to the center 6.67 feet of each plot.
 Allow an running check/untreated area to aid in accessing crop injury.
 5. Apply 15-20 GPA
 6. Use a spray nozzle which produces medium to coarse size droplets (approximate VMD range of 240 to 400 microns).
Do not use TeeJet AI, AIXR, TTI nozzles, air induction nozzles or any spray tips that produce very coarse (VC), extremely coarse (XC), or ultra coarse (UC) spray droplets.
 7. Stagger application dates to allow planting all crops on the same day.
 Seed ~10 ft strips of non-Enlist corn >45,000 seeds/A and low populations of spring wheat and spring barley across each of 4 replication perpendicular to the treatments.
 8. Record the following information in Protocol Description tabs/sections:
 Application details: Date, time, sprayer type, GPA, PSI, nozzle type and orifice size.
 Environmental Conditions: Air and soil temp, wind speed & direction, humidity, % cloud cover at application.
Document daily rainfall and irrigation from first application through at least 30 days after planting.
Report soil texture, pH, CEC, and %OM content from composite 0-6" soil sample.
 Deviations, errors and variables that may influence crop tolerance.
% crop injury as PHYGEN at 14, 28, and 42 DA PLANTING = ~7, 21, and 35 DA EMERGENCE.
 No photographs are necessary.
 Yield: Not required.
 9. Provide validated DAT final report by September 10, 2023.
- Yield Required: _
- Geographic Area/Environmental Considerations:
- Cropping Considerations:
- Data to Collect:
- Statistical Analysis:

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Rating Date	Part Rated	Rating Type	Rating Unit/Min/Max	Crop Type, Code	BBCH Scale	Crop Scientific Name	Crop Name	Pest Type	Pest Code	Pest Scientific Name	Pest Name	Apr-18-23 PLANT, P DENSITY #/5ft, -, -	Apr-18-23 Stunting %, 0, 100 C, ZEAMX BCOR Zea mays Corn	Apr-24-23 PLANT, - DENSITY #/5FT, -, -	Apr-24-23 Ht1 In, -, -	Apr-24-23 Ht2 In, -, -	Apr-24-23 Ht3 In, -, -	Apr-24-23 Ht4 In, -, -	Apr-24-23 Ht5 In, -, -
Trt No.	Treatment Name	Form Conc	Form Type	Form Description	Rate	Rate Unit	Appl Code	Appl Timing	1	2	3	4	5	6	7	8			
1	Assure II 0.88 EC COC	.88 EC 100 SL	EC COC		12 fl oz/a 1 % v/v	A A	14 DBP 14 DBP		12 a	0.0 d	11.5 a	2.63 bc	3.13 ab	3.00 ab	3.38 a	3.13 a			
2	Assure II 0.88 EC COC	.88 EC 100 SL	EC COC		24 fl oz/a 1 % v/v	A A	14 DBP 14 DBP		12 ab	22.5 c	11.8 a	2.50 bc	3.00 abc	2.88 ab	3.13 a	3.13 a			
3	Assure II 0.88 EC COC	.88 EC 100 SL	EC COC		12 fl oz/a 1 % v/v	B B	7 DBP 7 DBP		11 ab	10.0 d	10.5 a	3.00 ab	2.88 a-d	3.00 ab	3.00 a	3.00 a			
4	Assure II 0.88 EC COC	.88 EC 100 SL	EC COC		24 fl oz/a 1 % v/v	B B	7 DBP 7 DBP		11 ab	40.0 b	11.5 a	2.25 cd	2.13 de	2.63 abc	2.25 b	2.88 ab			
5	Assure II 0.88 EC COC	.88 EC 100 SL	EC COC		12 fl oz/a 1 % v/v	C C	4 DBP 4 DBP		12 ab	22.5 c	11.5 a	2.75 bc	2.38 b-e	2.25 bc	2.38 b	2.38 bc			
6	Assure II 0.88 EC COC	.88 EC 100 SL	EC COC		24 fl oz/a 1 % v/v	C C	4 DBP 4 DBP		11 ab	45.0 b	10.8 a	2.13 cde	2.38 b-e	2.25 bc	2.00 bc	2.00 cd			
7	Assure II 0.88 EC COC	.88 EC 100 SL	EC COC		12 fl oz/a 1 % v/v	D D	1 DBP 1 DBP		10 bc	45.0 b	10.8 a	1.50 e	2.25 cde	1.88 cd	2.00 bc	1.88 cd			
8	Assure II 0.88 EC COC	.88 EC 100 SL	EC COC		24 fl oz/a 1 % v/v	D D	1 DBP 1 DBP		9 c	68.8 a	7.0 b	1.50 e	1.88 ef	1.38 de	1.50 cd	1.63 de			
9	Assure II 0.88 EC COC	0.88 EC 100 SL	EC COC		12 fl oz/a 1 % v/v	E E	0 DBP 0 DBP		9 c	47.5 b	8.3 b	1.50 e	1.63 ef	1.25 de	1.63 cd	1.00 f			
10	Assure II 0.88 EC COC	0.88 EC 100 SL	EC COC		24 fl oz/a 1 % v/v	E E	0 DBP 0 DBP		5 d	80.0 a	3.3 c	1.63 de	1.13 f	0.88 e	1.13 d	1.13 ef			
11	Untreated Check								12 ab	0.0 d	11.3 a	3.50 a	3.63 a	3.25 a	3.38 a	3.38 a			
LSD P=.10									1.5	12.39	1.69	0.742	0.839	0.769	0.612	0.563			
Standard Deviation									1.3	10.32	1.41	0.618	0.699	0.641	0.510	0.469			
CV									12.46	29.78	14.38	27.32	29.14	28.64	21.79	20.22			
Grand Mean									10.1	34.66	9.82	2.261	2.398	2.239	2.341	2.318			

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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Rating Date				Apr-24-23	May-4-23	May-4-23	May-26-23	May-26-23	Aug-28-23	Aug-28-23			
Part Rated				HEIGHT-AVG	Stunting	Stand loss	Stunting	STAND LOSS	LBS/PLOT	YIELD			
Rating Type				IN, -, -	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	C, ZEAMX	BU/A, -, -			
Rating Unit/Min/Max									BCOR	BCOR			
Crop Type, Code									Zea mays	Zea mays			
BBCH Scale									Corn	Corn			
Crop Scientific Name													
Crop Name				ZEAMA	Zeama	Zeama	Zeama	Zeama					
Pest Type				W, Weed									
Pest Code				ZEAMX									
Pest Scientific Name				Zea mays									
Pest Name				Corn									
Trt No.	Treatment Name	Form Conc	Form Description	Rate	Appl Unit	Appl Code	Appl Timing						
1	Assure II 0.88 EC COC	.88 EC 100 SL	COC	12 fl oz/a 1 % v/v	A A	14 DBP 14 DBP	3.1 ab	3.8 f	0.0 f	0.0 d	0.0 c	45.5 ab	240 ab
2	Assure II 0.88 EC COC	.88 EC 100 SL	COC	24 fl oz/a 1 % v/v	A A	14 DBP 14 DBP	2.9 b	15.0 de	7.5 ef	1.3 d	0.0 c	39.0 cd	206 cd
3	Assure II 0.88 EC COC	.88 EC 100 SL	COC	12 fl oz/a 1 % v/v	B B	7 DBP 7 DBP	3.0 ab	10.0 ef	1.3 ef	1.3 d	0.0 c	40.8 c	215 c
4	Assure II 0.88 EC COC	.88 EC 100 SL	COC	24 fl oz/a 1 % v/v	B B	7 DBP 7 DBP	2.4 c	20.0 de	10.0 def	5.0 cd	0.0 c	39.3 cd	207 cd
5	Assure II 0.88 EC COC	.88 EC 100 SL	COC	12 fl oz/a 1 % v/v	C C	4 DBP 4 DBP	2.4 c	16.3 de	5.0 ef	1.3 d	0.0 c	42.3 bc	223 bc
6	Assure II 0.88 EC COC	.88 EC 100 SL	COC	24 fl oz/a 1 % v/v	C C	4 DBP 4 DBP	2.2 cd	23.8 d	12.5 de	10.0 c	2.5 c	36.0 de	190 de
7	Assure II 0.88 EC COC	.88 EC 100 SL	COC	12 fl oz/a 1 % v/v	D D	1 DBP 1 DBP	1.9 de	37.5 c	21.3 d	11.3 bc	1.3 c	33.8 e	178 e
8	Assure II 0.88 EC COC	.88 EC 100 SL	COC	24 fl oz/a 1 % v/v	D D	1 DBP 1 DBP	1.6 ef	63.8 b	62.5 b	37.5 a	35.0 b	17.8 g	94 g
9	Assure II 0.88 EC COC	0.88 EC 100 SL	COC	12 fl oz/a 1 % v/v	E E	0 DBP 0 DBP	1.4 f	37.5 c	35.0 c	17.5 b	5.0 c	28.5 f	151 f
10	Assure II 0.88 EC COC	0.88 EC 100 SL	COC	24 fl oz/a 1 % v/v	E E	0 DBP 0 DBP	1.2 f	88.8 a	82.5 a	40.0 a	62.5 a	9.5 h	50 h
11	Untreated Check						3.4 a	0.0 f	0.0 f	0.0 d	0.0 c	46.8 a	247 a
LSD P=.10							0.48	11.18	11.54	6.86	6.09	4.26	22.5
Standard Deviation							0.40	9.31	9.61	5.71	5.07	3.55	18.7
CV							17.38	32.39	44.52	50.28	52.5	10.3	10.3
Grand Mean							2.31	28.75	21.59	11.36	9.66	34.45	182.0

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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FIELD CORN SAFETY TO ASSURE II SOIL RESIDUES

Trial ID: CN-14-23
 Protocol ID: 23HC047US Location: UGA PONDER FARM Trial Year: 2023
 Project ID: 047 Project ID 2: Project ID 3:
 Study Director: Rich Zollinger Sponsor Contact: Gregory Armel
 Investigator:

Randomized Complete Block (RCB) AOV For Apr-18-23 PLANT P DENSTY #/5ft W Weed ZEAMX Zea mays Corn (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	246.795455			
Replicate	3	13.522727	4.507576	2.863	0.0532
Treatment	10	186.045455	18.604545	11.818	0.0001
Error	30	47.227273	1.574242		

Randomized Complete Block (RCB) AOV For Apr-18-23 Stunting % 0 100 C ZEAMX BCOR Zea mays Corn W Weed ZEMAX Zea mays CORN (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	31569.886364			
Replicate	3	647.159091	215.719697	2.025	0.1316
Treatment	10	27726.136364	2772.613636	26.021	0.0001
Error	30	3196.590909	106.553030		

Randomized Complete Block (RCB) AOV For Apr-24-23 PLANT DENSITY #/5FT Zeama W Weed ZEAMX Zea mays Corn (Data Column 3)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	354.545455			
Replicate	3	14.727273	4.909091	2.464	0.0816
Treatment	10	280.045455	28.004545	14.056	0.0001
Error	30	59.772727	1.992424		

Randomized Complete Block (RCB) AOV For Apr-24-23 Ht1 In Zeama W Weed ZEAMX Zea mays Corn (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	33.244318			
Replicate	3	3.107955	1.035985	2.713	0.0624
Treatment	10	18.681818	1.868182	4.893	0.0003
Error	30	11.454545	0.381818		

Randomized Complete Block (RCB) AOV For Apr-24-23 Ht2 In Zeama W Weed ZEAMX Zea mays Corn (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	38.289773			
Replicate	3	2.789773	0.929924	1.905	0.1501
Treatment	10	20.852273	2.085227	4.271	0.0009
Error	30	14.647727	0.488258		

Randomized Complete Block (RCB) AOV For Apr-24-23 Ht3 In Zeama W Weed ZEAMX Zea mays Corn (Data Column 6)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	42.244318			
Replicate	3	4.107955	1.369318	3.332	0.0326
Treatment	10	25.806818	2.580682	6.279	0.0001
Error	30	12.329545	0.410985		

Randomized Complete Block (RCB) AOV For Apr-24-23 Ht4 In Zeama W Weed ZEAMX Zea mays Corn (Data Column 7)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	34.886364			
Replicate	3	2.568182	0.856061	3.290	0.0340
Treatment	10	24.511364	2.451136	9.419	0.0001
Error	30	7.806818	0.260227		

Randomized Complete Block (RCB) AOV For Apr-24-23 Ht5 In Zeama W Weed ZEAMX Zea mays Corn (Data Column 8)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	39.545455			
Replicate	3	4.409091	1.469697	6.690	0.0014
Treatment	10	28.545455	2.854545	12.993	0.0001
Error	30	6.590909	0.219697		

Randomized Complete Block (RCB) AOV For Apr-24-23 HEIGHT-AVG IN ZEAMA W Weed ZEAMX Zea mays Corn (Data Column 9)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	30.084318			
Replicate	3	3.293409	1.097803	6.806	0.0012
Treatment	10	21.951818	2.195182	13.609	0.0001
Error	30	4.839091	0.161303		

Randomized Complete Block (RCB) AOV For May-4-23 Stunting % 0 100 Zeama (Data Column 10)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	32106.250000			
Replicate	3	592.613636	197.537879	2.278	0.0998
Treatment	10	28912.500000	2891.250000	33.346	0.0001
Error	30	2601.136364	86.704545		

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FIELD CORN SAFETY TO ASSURE II SOIL RESIDUES

Trial ID: CN-14-23
 Protocol ID: 23HC047US Location: UGA PONDER FARM Trial Year: 2023
 Project ID: 047 Project ID 2: Project ID 3:
 Study Director: Rich Zollinger Sponsor Contact: Gregory Armel
 Investigator:

Randomized Complete Block (RCB) AOV For May-4-23 Stand loss % 0 100 Zeama (Data Column 11)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	34438.636364			
Replicate	3	1265.909091	421.969697	4.567	0.0095
Treatment	10	30401.136364	3040.113636	32.907	0.0001
Error	30	2771.590909	92.386364		

Randomized Complete Block (RCB) AOV For May-26-23 Stunting % 0 100 Zeama (Data Column 12)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	9618.181818			
Replicate	3	45.454545	15.151515	0.464	0.7095
Treatment	10	8593.181818	859.318182	26.318	0.0001
Error	30	979.545455	32.651515		

Randomized Complete Block (RCB) AOV For May-26-23 STAND LOSS % 0 100 Zeama (Data Column 13)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	17419.886364			
Replicate	3	97.159091	32.386364	1.259	0.3060
Treatment	10	16551.136364	1655.113636	64.352	0.0001
Error	30	771.590909	25.719697		

Randomized Complete Block (RCB) AOV For Aug-28-23 LBS/PLOT C ZEAMX BCOR Zea mays Corn (Data Column 14)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	7704.909091			
Replicate	3	1897.818182	632.606061	50.249	0.0001
Treatment	10	5429.409091	542.940909	43.127	0.0001
Error	30	377.681818	12.589394		

Randomized Complete Block (RCB) AOV For Aug-28-23 YIELD BU/A C ZEAMX BCOR Zea mays Corn (Data Column 15)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	214968.524924			
Replicate	3	52949.511838	17649.837279	50.249	0.0001
Treatment	10	151481.613827	15148.161383	43.127	0.0001
Error	30	10537.399259	351.246642		

Part Rated

PLANT = plant
 P = Pest is Part Rated

Rating Type
 DENSTY = density
 YIELD = yield

Rating Unit/Min/Max
 %, 0, 100 = percent
 In, , = inch

Crop Type, Code
 C = EPPO species (Bayer) codes
 ZEAMX, BCOR, Zea mays, Corn = US
 , , , Zeama = US

Pest Type
 W, Weed = Weed or volunteer crop

Pest Code
 ZEAMX, Zea mays, Corn = US

ARM Action Codes
 T1 = ([4]+[5]+[6]+[7]+[8])/5
 TY2 = 5.28206424*[14]

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FIELD CORN SAFETY TO ASSURE II SOIL RESIDUES

Trial ID: CN-14-23
 Protocol ID: 23HC047US Location: UGA PONDER FARM Trial Year: 2023
 Project ID: 047 Project ID 2: Project ID 3:
 Study Director: Rich Zollinger Sponsor Contact: Gregory Armel
 Investigator:

Rating Date		Apr-18-23		Apr-18-23		Apr-24-23		Apr-24-23		Apr-24-23		Apr-24-23		Apr-24-23			
Part Rated		PLANT, P		Stunting		PLANT, -		Ht1		Ht2		Ht3		Ht4			
Rating Type		DENSTY		% , 0, 100		DENSITY		In, -, -		In, -, -		In, -, -		In, -, -			
Rating Unit/Min/Max		#/5ft, -, -		C, ZEAMX		#/5FT, -, -											
Crop Type, Code				BCOR													
BBCH Scale				Zea mays													
Crop Scientific Name				Corn		Zeama		Zeama		Zeama		Zeama		Zeama			
Crop Name				W, Weed		W, Weed		W, Weed		W, Weed		W, Weed		W, Weed			
Pest Type				ZEAMX		ZEAMX		ZEAMX		ZEAMX		ZEAMX		ZEAMX			
Pest Code				Zea mays		Zea mays		Zea mays		Zea mays		Zea mays		Zea mays			
Pest Scientific Name				Corn		Corn		Corn		Corn		Corn		Corn			
Pest Name				Corn		Corn		Corn		Corn		Corn		Corn			
Trt No.	Treatment Name	Form Conc	Form Type	Form Description	Rate	Appl Unit	Appl Code	Appl Timing	Appl Plot	1	2	3	4	5	6	7	8
1	Assure II 0.88 EC COC	.88 EC 100 SL	COC	COC	12 fl oz/a 1 % v/v	A A	14 DBP 14 DBP	101 209	13	0.0	12.0	3.00	3.50	3.00	3.50	3.00	
									11	0.0	11.0	2.00	3.00	2.00	3.00		
									305	0.0	11.0	2.50	2.50	3.00	3.00		
									410	0.0	12.0	3.00	3.50	4.00	4.00		
									Mean =	12	0.0	11.5	2.63	3.13	3.00	3.38	
2	Assure II 0.88 EC COC	.88 EC 100 SL	COC	COC	24 fl oz/a 1 % v/v	A A	14 DBP 14 DBP	102 206	12	50.0	12.0	2.00	2.50	3.00	3.00	3.50	
									12	30.0	12.0	3.00	3.50	3.50	3.50		
									311	0.0	12.0	3.50	3.00	3.00	3.00		
									405	10.0	11.0	1.50	3.00	2.00	3.00		
									Mean =	12	22.5	11.8	2.50	3.00	2.88	3.13	
3	Assure II 0.88 EC COC	.88 EC 100 SL	COC	COC	12 fl oz/a 1 % v/v	B B	7 DBP 7 DBP	103 210	11	10.0	12.0	3.00	2.50	3.00	2.50	2.00	
									11	10.0	11.0	2.00	2.50	2.00	2.50		
									304	10.0	8.0	4.00	3.00	3.50	3.50		
									406	11.0	11.0	3.00	3.50	3.50	4.00		
									Mean =	11	10.0	10.5	3.00	2.88	3.00	3.00	
4	Assure II 0.88 EC COC	.88 EC 100 SL	COC	COC	24 fl oz/a 1 % v/v	B B	7 DBP 7 DBP	104 207	11	50.0	11.0	2.00	2.00	2.50	3.00	3.00	
									12	50.0	11.0	1.50	1.00	1.50	1.50		
									301	11	40.0	12.0	2.00	2.00	2.50	2.00	
									409	11	20.0	12.0	3.50	3.50	4.00	2.50	
									Mean =	11	40.0	11.5	2.25	2.13	2.63	2.25	
5	Assure II 0.88 EC COC	.88 EC 100 SL	COC	COC	12 fl oz/a 1 % v/v	C C	4 DBP 4 DBP	105 201	11	20.0	11.0	3.00	3.50	2.50	2.00	2.50	
									11	30.0	12.0	1.50	1.00	1.50	1.50		
									308	12	20.0	11.0	3.00	2.50	2.50	3.00	
									411	12	20.0	12.0	3.50	2.50	2.50	3.00	
									Mean =	12	22.5	11.5	2.75	2.38	2.25	2.38	
6	Assure II 0.88 EC COC	.88 EC 100 SL	COC	COC	24 fl oz/a 1 % v/v	C C	4 DBP 4 DBP	106 208	11	50.0	10.0	2.50	3.50	2.00	2.00	1.50	
									9	30.0	10.0	2.00	2.00	2.50	1.50	2.00	
									302	12	50.0	11.0	2.50	2.00	3.00	3.00	
									403	11	50.0	12.0	1.50	2.00	1.50	2.00	
									Mean =	11	45.0	10.8	2.13	2.38	2.25	2.00	
7	Assure II 0.88 EC COC	.88 EC 100 SL	COC	COC	12 fl oz/a 1 % v/v	D D	1 DBP 1 DBP	107 202	10	50.0	9.0	1.00	1.00	2.50	2.00	1.50	
									9	30.0	11.0	1.50	1.50	1.00	1.50	2.00	
									306	10	50.0	12.0	1.00	3.50	1.00	2.00	
									408	11	50.0	11.0	2.50	3.00	3.00	2.50	
									Mean =	10	45.0	10.8	1.50	2.25	1.88	2.00	
8	Assure II 0.88 EC COC	.88 EC 100 SL	COC	COC	24 fl oz/a 1 % v/v	D D	1 DBP 1 DBP	108 205	8	60.0	7.0	1.50	1.50	1.00	1.00	1.50	
									6	85.0	4.0	1.00	1.00	1.00	1.50	1.00	
									309	9	70.0	7.0	2.00	2.50	1.50	2.00	
									402	12	60.0	10.0	1.50	2.50	2.00	1.50	
									Mean =	9	68.8	7.0	1.50	1.88	1.38	1.50	
9	Assure II 0.88 EC COC	0.88 EC 100 SL	COC	COC	12 fl oz/a 1 % v/v	E E	0 DBP 0 DBP	109 203	7	50.0	6.0	1.50	1.50	1.00	1.50	1.00	
									8	60.0	9.0	1.00	1.50	1.50	2.00	0.50	
									307	10	40.0	10.0	1.50	2.00	1.50	1.50	
									401	9	40.0	8.0	2.00	1.50	1.00	1.50	
									Mean =	9	47.5	8.3	1.50	1.63	1.25	1.63	

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FIELD CORN SAFETY TO ASSURE II SOIL RESIDUES

Trial ID: CN-14-23
 Protocol ID: 23HC047US Location: UGA PONDER FARM Trial Year: 2023
 Project ID: 047 Project ID 2: Project ID 3:
 Study Director: Rich Zollinger Sponsor Contact: Gregory Armel
 Investigator:

Rating Date	Apr-18-23	Apr-18-23	Apr-24-23	Apr-24-23	Apr-24-23	Apr-24-23	Apr-24-23	Apr-24-23						
Part Rated	PLANT, P	Stunting	PLANT, -	Ht1	Ht2	Ht3	Ht4	Ht5						
Rating Type	DENSTY	% , 0, 100	DENSITY	In, -, -	In, -, -	In, -, -	In, -, -	In, -, -						
Rating Unit/Min/Max	#/5ft, -, -	C, ZEAMX	#/5FT, -, -											
Crop Type, Code		BCOR												
BBCH Scale		Zea mays												
Crop Scientific Name		Corn												
Crop Name		Zeama												
Pest Type	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed						
Pest Code	ZEAMX	ZEMAX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX						
Pest Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays						
Pest Name	Corn	CORN	Corn	Corn	Corn	Corn	Corn	Corn						
Trt Treatment	Form Form	Rate	Appl	Appl										
No. Name	Conc Type Description	Rate Unit	Code	Timing	Plot	1	2	3	4	5	6	7	8	
10	Assure II 0.88 EC	0.88 EC	24 fl oz/a	E	0 DBP	110	5	90.0	2.0	1.50	1.50	1.00	1.50	1.50
	COC	100 SL	COC	1 % v/v	E	0 DBP	211	2	90.0	0.0	2.00	1.00	0.00	0.00
							303	3	70.0	4.0	2.00	1.50	1.50	2.00
							404	8	70.0	7.0	1.00	0.50	1.00	1.50
							Mean =	5	80.0	3.3	1.63	1.13	0.88	1.13
11	Untreated Check						111	12	0.0	11.0	3.00	3.00	2.50	3.00
							204	11	0.0	11.0	3.00	4.00	3.00	3.50
							310	11	0.0	11.0	4.00	4.00	3.50	3.50
							407	12	0.0	12.0	4.00	3.50	4.00	4.00
							Mean =	12	0.0	11.3	3.50	3.63	3.25	3.38

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 Study Director: Rich Zollinger Sponsor Contact: Gregory Armel
 Investigator:

Rating Date							Apr-24-23	May-4-23	May-4-23	May-26-23	May-26-23	Aug-28-23	Aug-28-23	
Part Rated							HEIGHT-AVG	Stunting	Stand loss	Stunting	STAND LOSS	LBS/PLOT	YIELD	
Rating Type							IN, -, -	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	C, ZEAMX	C, ZEAMX	
Rating Unit/Min/Max												BCOR	BCOR	
Crop Type, Code												Zea mays	Zea mays	
BBCH Scale												Corn	Corn	
Crop Scientific Name														
Crop Name							ZEAMA	Zeama	Zeama	Zeama	Zeama			
Pest Type							W, Weed							
Pest Code							ZEAMX							
Pest Scientific Name							Zea mays							
Pest Name							Corn							
Trt No.	Treatment Name	Form Conc	Form Type	Rate Description	Appl Rate Unit	Appl Code Timing	9	10	11	12	13	14	15	
1	Assure II 0.88 EC COC	.88 EC 100 SL	COC	12 fl oz/a A 1 % v/v A	14 DBP	101	3.2	0.0	0.0	0.0	0.0	43.0	227	
							2.6	0.0	0.0	0.0	0.0	39.0	206	
							2.8	10.0	0.0	0.0	0.0	49.0	259	
							3.6	5.0	0.0	0.0	0.0	51.0	269	
							Mean =	3.1	3.8	0.0	0.0	0.0	45.5	240
2	Assure II 0.88 EC COC	.88 EC 100 SL	COC	24 fl oz/a A 1 % v/v A	14 DBP	102	2.8	30.0	30.0	5.0	0.0	33.0	174	
							3.3	10.0	0.0	0.0	0.0	24.0	127	
							3.1	10.0	0.0	0.0	0.0	49.0	259	
							4.05	2.6	10.0	0.0	0.0	50.0	264	
							Mean =	2.9	15.0	7.5	1.3	0.0	39.0	206
3	Assure II 0.88 EC COC	.88 EC 100 SL	COC	12 fl oz/a B 1 % v/v B	7 DBP	103	2.6	15.0	5.0	5.0	0.0	36.0	190	
							2.3	10.0	0.0	0.0	0.0	34.0	180	
							3.04	3.5	5.0	0.0	0.0	47.0	248	
							4.06	3.5	10.0	0.0	0.0	46.0	243	
							Mean =	3.0	10.0	1.3	1.3	0.0	40.8	215
4	Assure II 0.88 EC COC	.88 EC 100 SL	COC	24 fl oz/a B 1 % v/v B	7 DBP	104	2.5	30.0	30.0	10.0	0.0	29.0	153	
							1.5	35.0	0.0	5.0	0.0	37.0	195	
							3.01	2.4	0.0	10.0	0.0	41.0	217	
							4.09	3.3	15.0	0.0	5.0	50.0	264	
							Mean =	2.4	20.0	10.0	5.0	0.0	39.3	207
5	Assure II 0.88 EC COC	.88 EC 100 SL	COC	12 fl oz/a C 1 % v/v C	4 DBP	105	2.7	20.0	10.0	5.0	0.0	39.0	206	
							1.4	25.0	10.0	0.0	0.0	34.0	180	
							3.08	2.8	10.0	0.0	0.0	49.0	259	
							4.11	2.8	10.0	0.0	0.0	47.0	248	
							Mean =	2.4	16.3	5.0	1.3	0.0	42.3	223
6	Assure II 0.88 EC COC	.88 EC 100 SL	COC	24 fl oz/a C 1 % v/v C	4 DBP	106	2.3	20.0	30.0	5.0	5.0	30.0	158	
							2.0	35.0	0.0	10.0	0.0	27.0	143	
							3.02	2.6	25.0	10.0	10.0	39.0	206	
							4.03	1.7	15.0	10.0	15.0	48.0	254	
							Mean =	2.2	23.8	12.5	10.0	2.5	36.0	190
7	Assure II 0.88 EC COC	.88 EC 100 SL	COC	12 fl oz/a D 1 % v/v D	1 DBP	107	1.6	50.0	30.0	10.0	5.0	26.0	137	
							1.5	35.0	20.0	20.0	0.0	26.0	137	
							3.06	2.0	30.0	20.0	5.0	38.0	201	
							4.08	2.5	35.0	15.0	10.0	45.0	238	
							Mean =	1.9	37.5	21.3	11.3	1.3	33.8	178
8	Assure II 0.88 EC COC	.88 EC 100 SL	COC	24 fl oz/a D 1 % v/v D	1 DBP	108	1.3	65.0	60.0	30.0	30.0	15.0	79	
							1.1	90.0	90.0	50.0	50.0	7.0	37	
							3.09	2.0	50.0	50.0	35.0	21.0	111	
							4.02	1.9	50.0	50.0	35.0	30.0	28.0	148
							Mean =	1.6	63.8	62.5	37.5	35.0	17.8	94
9	Assure II 0.88 EC COC	0.88 EC 100 SL	COC	12 fl oz/a E 1 % v/v E	0 DBP	109	1.3	30.0	50.0	20.0	10.0	20.0	106	
							1.3	30.0	30.0	15.0	0.0	26.0	137	
							3.07	1.5	40.0	20.0	10.0	5.0	31.0	164
							4.01	1.5	50.0	40.0	25.0	5.0	37.0	195
							Mean =	1.4	37.5	35.0	17.5	5.0	28.5	151

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FIELD CORN SAFETY TO ASSURE II SOIL RESIDUES

Trial ID: CN-14-23
 Protocol ID: 23HC047US Location: UGA PONDER FARM Trial Year: 2023
 Project ID: 047 Project ID 2: Project ID 3:
 Study Director: Rich Zollinger Sponsor Contact: Gregory Armel
 Investigator:

				Apr-24-23	May-4-23	May-4-23	May-26-23	May-26-23	Aug-28-23	Aug-28-23						
				HEIGHT-AVG IN, -, -	Stunting %, 0, 100	Stand loss %, 0, 100	Stunting %, 0, 100	STAND LOSS %, 0, 100	LBS/PLOT C, ZEAMX BCOR Zea mays Corn	YIELD BU/A, -, - C, ZEAMX BCOR Zea mays Corn						
Rating Date	Part Rated	Rating Type	Rating Unit/Min/Max													
Crop Type, Code	BBCH Scale	Crop Scientific Name	Crop Name													
Pest Type	Pest Code	Pest Scientific Name	Pest Name													
Trt	Treatment	Form	Form	Rate	Appl	Appl										
No.	Name	Conc	Type	Description	Rate	Unit	Code	Timing	Plot							
									9	10	11	12	13	14	15	
10	Assure II 0.88 EC	0.88	EC	24 fl oz/a	E	0 DBP			110	1.4	85.0	85.0	30.0	60.0	6.0	32
	COC	100	SL	COC	1 % v/v	E	0 DBP		211	0.6	95.0	95.0	30.0	80.0	5.0	26
									303	1.7	85.0	65.0	50.0	60.0	16.0	85
									404	1.0	90.0	85.0	50.0	50.0	11.0	58
									Mean =	1.2	88.8	82.5	40.0	62.5	9.5	50
11	Untreated Check								111	2.8	0.0	0.0	0.0	0.0	41.0	217
									204	3.3	0.0	0.0	0.0	0.0	39.0	206
									310	3.7	0.0	0.0	0.0	0.0	54.0	285
									407	3.9	0.0	0.0	0.0	0.0	53.0	280
									Mean =	3.4	0.0	0.0	0.0	0.0	46.8	247

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FIELD CORN SAFETY TO ASSURE II SOIL RESIDUES

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Part Rated

PLANT = plant
P = Pest is Part Rated

Rating Type

DENSTY = density
YIELD = yield

Rating Unit/Min/Max

%, 0, 100 = percent
In, , = inch

Crop Type Code

C = EPPO species (Bayer) codes
ZEAMX, BCOR, Zea mays, Corn = US
. . . Zeama = US

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

ZEAMX, Zea mays, Corn = US

ARM Action Codes

T1 = ([4]+[5]+[6]+[7]+[8])/5
TY2 = 5.28206424*[14]