

RESTRAINT/SHIELDEX/LIBERTY ULTRA IN LL FIELD CORN	
Trial ID: CN-05-24	Study Dir.: J. TURNER/J. SMITH
Location: PONDER FARM	Investigator: Eric P. Prostko

Reps: 4 Plots: 6 by 25 feet
Mix Size: 1.5 L

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code	Appl. Amount	Amt Product to Measure	Diluent	Rep 1	2	3	4
1	NTC									-	101	205	304	401
2	RESTRAINT	6.49	EC	36.0	oz/a	PRE	A	15 GPA	28.12 mL/mx	1446.9 mL	102	203	302	406
	AATREX	4	L	32.0	oz/a	PRE	A	15 GPA	25.0 mL/mx					
	SHIELDDEX	3.33	SC	1.35	oz/a	POST	B	15 GAL/AC	1.055 mL/mx	1418 mL				
	AATREX	4	L	16.0	oz/a	POST	B	15 GAL/AC	12.5 mL/mx					
	ROUNDUP POWERMAX3	5.88	SL	30.0	oz/a	POST	B	15 GAL/AC	23.44 mL/mx					
	AGRIDEX			1.0	% v/v	POST	B	15 GAL/AC	15.0 mL/mx					
	AMSOL			2.0	% v/v	POST	B	15 GAL/AC	30.0 mL/mx					
3	RESTRAINT	6.49	EC	36.0	oz/a	PRE	A	15 GPA	28.12 mL/mx	1446.9 mL	103	201	305	403
	AATREX	4	L	32.0	oz/a	PRE	A	15 GPA	25.0 mL/mx					
	SHIELDDEX	3.33	SC	1.35	oz/a	POST	B	15 GAL/AC	1.055 mL/mx	1424.3 mL				
	AATREX	4	L	16.0	oz/a	POST	B	15 GAL/AC	12.5 mL/mx					
	LIBERTY	2.34	SL	22.0	oz/a	POST	B	15 GAL/AC	17.19 mL/mx					
	AGRIDEX			1.0	% v/v	POST	B	15 GAL/AC	15.0 mL/mx					
	AMSOL			2.0	% v/v	POST	B	15 GAL/AC	30.0 mL/mx					
4	SURTAIN	1.63	ZC	11.0	oz/a	PRE	A	15 GPA	8.594 mL/mx	1491.4 mL	104	202	301	402
	LIBERTY ULTRA-BAS-101005H	1.76	SL	24.0	oz/a	POST	B	15 GAL/AC	18.75 mL/mx	1447.5 mL				
	STATUS	56	WG	5.0	oz/a	POST	B	15 GAL/AC	3.745 g/mx					
	AMSOL			2.0	% v/v	POST	B	15 GAL/AC	30.0 mL/mx					
5	AATREX	4	L	32.0	oz/a	PRE	A	15 GPA	25.0 mL/mx	1475 mL	105	206	303	404
	SURMISE 5 (GLUFOSINATE)	4.6	SL	16.4	oz/a	POST	B	15 GAL/AC	12.81 mL/mx	1454.8 mL				
	CALLISTO	4	SC	3.0	oz/a	POST	B	15 GAL/AC	2.344 mL/mx					
	AMSOL			2.0	% v/v	POST	B	15 GAL/AC	30.0 mL/mx					
6	OUTLOOK	6	EC	16.0	oz/a	PRE	A	15 GPA	12.5 mL/mx	1487.5 mL	106	204	306	405
	LIBERTY	2.34	SL	32.0	oz/a	POST	B	15 GAL/AC	25.0 mL/mx	1400 mL				
	AATREX	4	L	64.0	oz/a	POST	B	15 GAL/AC	50.0 mL/mx					
	PROWL H2O	3.8	SC	32.0	oz/a	POST	B	15 GAL/AC	25.0 mL/mx					

Sort Order: Treatment

Trial Comments

RESTRAINT = TOLPYRALATE (0.094 LBS/GAL) + ACETOCHLOR (6.404 LBS/GAL) + DICHLORMID (SAFENER)
STATUS = DICAMBA (40%) + DIFLUFENZOPYR (16%) + SAFENER (ISOXADIFEN)
SURTAIN = PYROXASULFONE (1.0 LBS/GAL) + SAFLUFENACIL (0.63 LBS/GAL)

HARVEST DATE: 08/29/24
HARVEST MOISTURE: 14.85%
YIELDS ADJUSTED TO 15.5%

SUMMARY:

- 1) PRE APPLICATIONS OF RESTRAINT CAUSED SLIGHT CORN STUNTING (7% OR LESS).
- 2) PRE APPLICATIONS OF OUTLOOK OR SURTAIN CAUSED 8-11% CORN STUNTING.
- 3) ALL PRE TREATMENTS PROVIDED AT LEAST 91% CONTROL OF PALMER AMARANTH (20 DAT).
- 4) ANNUAL GRASS CONTROL WAS AT LEAST 75% WITH ALL PRE TREATMENTS AT 20 DAT EXCEPT FOR AATREX (51% CONTROL).
- 5) WILD RADISH CONTROL WAS AT LEAST 82% WITH ALL PRE TREATMENTS AT 20 DAT EXCEPT FOR AATREX (71% CONTROL) AND OUTLOOK (13% CONTROL).
- 6) POST APPLICATIONS OF LIBERTY ULTRA + STATUS OR LIBERTY + AATREX + PROWL WERE MORE INJURIOUS THAN SURMISE + CALLISTO.

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RESTRAINT/SHIELD/EX/LIBERTY ULTRA
IN LL FIELD CORNTrial ID: CN-05-24 Study Dir.: J. TURNER/J. SMITH
Location: PONDER FARM Investigator: Eric P. Prostko

7) AFTER THE POST APPLICATIONS WERE APPLIED, ALL TREATMENTS PROVIDED AT LEAST 86% CONTROL OF PALMER AMAARANTH, WILD RADISH, AND ANNUAL GRASSES (52 DAP).

8) CORN YIELDS WERE NOT INFLUENCED BY ANY HERBICIDE TREATMENT (P=0.1463). TEST AVERAGE YIELD WAS 174 BU/A.

GENERAL TRIAL INFORMATION

Study Director: J. TURNER/J. SMITH

Title: _____

Affiliation: _____

Postal Code: _____

Investigator: Eric P. Prostko Title: _____

Affiliation: UGA

Postal Code: _____

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

Conducted Under GEP (Y/N): N

Guidelines: _____ Guideline Description: _____

Objective: _____

Conclusions: _____

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	AGRASS	TX	APN/CRB/GOOSE/CROW
2.	AMAPA	PA	LMEER AMARANTH
3.	RAPRA	WI	LD RADISH
4.	MOLVE	CA	RPETWEED

Crop 1: ZEAMA FIELD CORN

Planting Date: Apr-1-24

Planting Method: MONOSEM

Variety: PIONEER 2042 VYHR

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: 4

Site Type: _____

Tillage Type: CONVENTIONAL

Study Design: RACOB

Trial Initiation Comments: _____

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RESTRAINT/SHIELDEX/LIBERTY ULTRA IN LL FIELD CORN			
Trial ID: CN-05-24		Study Dir.: J. TURNER/J. SMITH	
Location: PONDER FARM		Investigator: Eric P. Prostko	
Previous Crops	Previous Pesticides	Year	
1. PEANUT		2023	

MAINTENANCE							
Field Prep./Maintenance: 1000 LBS/A 5-15-30 - PREPLANT							
SIDEDRESS: 125-0-0-16: APRIL 24 AND MAY 1							
AXILO BMZ (MICRO-NUTRIENTS) - APRIL 30							
SIDEDRESS: 83-0-0-10: MAY 13							
No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.							

		SOIL DESCRIPTION					
% Sand: 94	% OM: 0.64	Texture:	SAND				
% Silt: 4	pH: 7.0	Soil Name:	DOTHAN				
% Clay: 2	CEC: 2.8	Fert. Level:	GOOD				
ADDITIONAL MEASURED ELEMENTS							
Element	Quantity	Unit					
MOISTURE CONDITIONS							
	Date	Time	Amount	Unit	Type	Interval	Unit
1.	Apr-3-24		1.3	IN	RAINFALL		
2.	Apr-10-24		0.2	IN	SPRINKLER - LATERAL MOVE		
3.	Apr-10-24		2.71	IN	RAINFALL		
4.	Apr-11-24		1.78	IN	RAINFALL		
5.	Apr-21-24		1.0	IN	RAINFALL		
6.	May-26-24		0.3	IN	SPRINKLER - LATERAL MOVE		
7.	May-2-24		0.5	IN	SPRINKLER - LATERAL MOVE		
8.	May-4-24		0.9	IN	RAINFALL		
9.	May-9-24		0.75	IN	RAINFALL		
10.	May-10-24		0.75	IN	RAINFALL		
11.	May-13-24		1.1	IN	RAINFALL		
12.	May-17-24		0.96	IN	RAINFALL		
13.	May-18-24		1.35	IN	RAINFALL		
14.	May-19-24		0.69	IN	RAINFALL		
15.	May-25-24		0.44	IN	RAINFALL		
16.	May-27-24		0.62	IN	RAINFALL		
17.	Jun-3-24		0.35	IN	SPRINKLER - LATERAL MOVE		
18.	Jun-5-24		0.4	IN	SPRINKLER - LATERAL MOVE		
19.	Jun-11-24		0.45	IN	SPRINKLER - LATERAL MOVE		
20.	Jun-17-24		0.4	IN	SPRINKLER - LATERAL MOVE		
21.	Jun-27-24		0.9	IN	RAINFALL		
Overall Moisture Conditions: _____							
Closest Weather Station: _____		Distance: _____		Unit: _____			

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Trial ID: CN-05-24	Study Dir.: J. TURNER/J. SMITH	
Location: PONDER FARM		Investigator: Eric P. Prostko

APPLICATION DESCRIPTION		
	A	B
Application Date:	Apr-2-24	Apr-29-24
Time of Day:	8:00 AM	7:15 AM
Application Method:	BROADCAST	BROADCAST
Application Timing:	PRE	POST
Applic. Placement:	SOIL	FOLIAGE
Air Temp., Unit:	64 F	61 F
% Relative Humidity:	99	95
Wind Velocity, Unit:	4 MPH	1 MPH
Dew Presence (Y/N):	N	Y
Water Hardness:	--	--
Soil Temp., Unit:	62 F	64 F
Soil Moisture:	OPTIMUM	OPTIMUM
% Cloud Cover:	100	5

CROP STAGE AT EACH APPLICATION		
	A	B
Crop 1 Code, Stage:	ZEAMA,	ZEAMA,
Stage Scale:		V5
Height, Unit:		12, IN

WEED STAGE AT EACH APPLICATION		
	A	B
Weed 1 Code, Stage:	AGRAS,	AGRAS,
Stage Scale:		
Density, Unit:		
Weed 2 Code, Stage:	AMAPA,	AMAPA,
Stage Scale:		
Density, Unit:		
Weed 3 Code, Stage:	RAPRA,	RAPRA,
Stage Scale:		
Density, Unit:		
Weed 4 Code, Stage:	MOLVE,	MOLVE,
Stage Scale:		
Density, Unit:		

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IN LL FIELD CORN	
Trial ID: CN-05-24	Study Dir.: J. TURNER/J. SMITH
Location: PONDER FARM Investigator: Eric P. Prostko	

APPLICATION EQUIPMENT		
	A	B
Appl. Equipment:	BACKPACK	SAME AS A
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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RESTRAINT/SHIELD/EX/LIBERTY ULTRA IN LL FIELD CORN										
Trial ID: CN-05-24		Study Dir.: J. TURNER/J. SMITH								
Location: PONDER FARM		Investigator: Eric P. Prostko								
Weed Code							Zeama Stunting %	Amapa Control %	Agrass Control %	Rapra Control %
Crop Code							Apr-15-24	Apr-15-24	Apr-15-24	Apr-15-24
Rating Data Type										
Rating Unit										
Rating Date										Apr-22-24
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Grow Unit	Stg Stg	Appl Code	1	2	3	4
1 NTC							0.0 -	0.0 na	0.0 c	0.0 c
2 RESTRAINT	6.49	EC	36.0 oz/a	PRE	A		1.3 -	99.0 na	94.5 a	93.3 a
AATREX	4 L		32.0 oz/a	PRE	A					
SHIELD/EX	3.33	SC	1.35 oz/a	POST	B					
AATREX	4 L		16.0 oz/a	POST	B					
ROUNDUP POWERMAX3	5.88	SL	30.0 oz/a	POST	B					
AGRIDE/EX			1.0 % v/v	POST	B					
AMSOL			2.0 % v/v	POST	B					
3 RESTRAINT	6.49	EC	36.0 oz/a	PRE	A		2.5 -	99.0 na	92.3 a	92.0 a
AATREX	4 L		32.0 oz/a	PRE	A					
SHIELD/EX	3.33	SC	1.35 oz/a	POST	B					
AATREX	4 L		16.0 oz/a	POST	B					
LIBERTY	2.34	SL	22.0 oz/a	POST	B					
AGRIDE/EX			1.0 % v/v	POST	B					
AMSOL			2.0 % v/v	POST	B					
4 SURTAIN	1.63	ZC	11.0 oz/a	PRE	A		1.3 -	99.0 na	97.0 a	99.0 a
LIBERTY ULTRA-BAS-101005H	1.76	SL	24.0 oz/a	POST	B					
STATUS	56	WG	5.0 oz/a	POST	B					
AMSOL			2.0 % v/v	POST	B					
5 AATREX	4 L		32.0 oz/a	PRE	A		0.0 -	99.0 na	71.0 b	89.8 a
SURMISE 5 (GLUFOSINATE)	4.6	SL	16.4 oz/a	POST	B					
CALLISTO	4	SC	3.0 oz/a	POST	B					
AMSOL			2.0 % v/v	POST	B					
6 OUTLOOK	6	EC	16.0 oz/a	PRE	A		2.5 -	99.0 na	94.8 a	33.8 b
LIBERTY	2.34	SL	32.0 oz/a	POST	B					
AATREX	4 L		64.0 oz/a	POST	B					
PROWL H2O	3.8	SC	32.0 oz/a	POST	B					
LSD P=.10							2.61	.	13.63	23.25
Standard Deviation							2.11	0.00	10.99	18.75
CV							168.65	0.0	14.67	27.59
Grand Mean							1.25	82.50	74.92	67.96
Bartlett's X2^							4.227	.	16.009*	15.384*
P(Bartlett's X2)							0.517	.	0.007*	0.009*
Replicate F							1.563	NaN	0.961	0.536
Replicate Prob(F)							0.2398	NaN	0.4368	0.6647
Treatment F							1.125	NaN	47.626	19.211
Treatment Prob(F)							0.3891	NaN	0.0001	0.0001

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.

Could not calculate LSD (% mean diff) or mean separation letters for columns 2,10,17,18,19,22 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

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RESTRAINT/SHIELD/EX/LIBERTY ULTRA IN LL FIELD CORN										
Trial ID: CN-05-24		Study Dir.: J. TURNER/J. SMITH								
Location: PONDER FARM		Investigator: Eric P. Prostko								
Weed Code							Amapa	Agrass	Rapra	
Crop Code							Control	Control	Control	
Rating Data Type							%	%	%	
Rating Unit							Apr-22-24	Apr-22-24	Apr-22-24	
Rating Date										
Trt	Treatment	Form	Form	Rate	Grow	Appl	6	7	8	
No. Name		Conc	Type	Rate	Unit	Stg				
1	NTC						0.0 c	0.0 d	0.0 c	0.0 na
2	RESTRAINT	6.49	EC	36.0	oz/a	PRE A	98.0 a	75.0 b	88.8 ab	6.3 ab
	AATREX	4	L	32.0	oz/a	PRE A				0.0 na
	SHIELD/EX	3.33	SC	1.35	oz/a	POST B				
	AATREX	4	L	16.0	oz/a	POST B				
	ROUNDUP POWERMAX3	5.88	SL	30.0	oz/a	POST B				
	AGRIDEX			1.0	% v/v	POST B				
	AMSOL			2.0	% v/v	POST B				
3	RESTRAINT	6.49	EC	36.0	oz/a	PRE A	97.0 a	87.5 ab	82.5 ab	6.3 ab
	AATREX	4	L	32.0	oz/a	PRE A				0.0 na
	SHIELD/EX	3.33	SC	1.35	oz/a	POST B				
	AATREX	4	L	16.0	oz/a	POST B				
	LIBERTY	2.34	SL	22.0	oz/a	POST B				
	AGRIDEX			1.0	% v/v	POST B				
	AMSOL			2.0	% v/v	POST B				
4	SUR/AIN	1.63	ZC	11.0	oz/a	PRE A	98.0 a	91.3 a	98.0 a	11.3 a
	LIBERTY ULTRA-BAS-101005H	1.76	SL	24.0	oz/a	POST B				0.0 na
	STATUS	56	WG	5.0	oz/a	POST B				
	AMSOL			2.0	% v/v	POST B				
5	AATREX	4	L	32.0	oz/a	PRE A	91.0 b	51.3 c	71.3 b	1.3 bc
	SUR/ISE 5 (GLUFOSINATE)	4.6	SL	16.4	oz/a	POST B				0.0 na
	CALLISTO	4	SC	3.0	oz/a	POST B				
	AMSOL			2.0	% v/v	POST B				
6	OUTLOOK	6	EC	16.0	oz/a	PRE A	91.0 b	80.5 ab	12.5 c	7.5 a
	LIBERTY	2.34	SL	32.0	oz/a	POST B				0.0 na
	AATREX	4	L	64.0	oz/a	POST B				
	PROWL H2O	3.8	SC	32.0	oz/a	POST B				
LSD P=.10							5.29	13.51	18.64	5.66
Standard Deviation							4.27	10.90	15.04	4.56
CV							5.39	16.96	25.56	84.27
Grand Mean							79.17	64.25	58.83	5.42
Bartlett's X2^							7.856	5.361	13.503*	9.681
P(Bartlett's X2)							0.164	0.373	0.019*	0.085
Replicate F							1.293	2.059	0.526	0.600
Replicate Prob(F)							0.3132	0.1487	0.6710	0.6249
Treatment F							332.554	40.050	30.956	3.320
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0323

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Trial ID: CN-05-24		Study Dir.: J. TURNER/J. SMITH								
Location: PONDER FARM		Investigator: Eric P. Prostko								
Weed Code							Zeama Necrosis %	Amapa Control %	Rapra Control %	Agrass Control %
Crop Code							Apr-29-24	Apr-29-24	Apr-29-24	Apr-29-24
Rating Data Type							11	12	13	14
Rating Unit										
Rating Date										
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Grow Unit	Appl Stg	Code				
1 NTC							0.0 -	0.0 c	0.0 d	0.0 d
2 RESTRAINT	6.49	EC	36.0 oz/a	PRE	A		0.0 -	97.0 a	88.8 ab	67.5 b
AATREX	4 L		32.0 oz/a	PRE	A					99.0 a
SHIELD/EX	3.33	SC	1.35 oz/a	POST	B					
AATREX	4 L		16.0 oz/a	POST	B					
ROUNDUP POWERMAX3	5.88	SL	30.0 oz/a	POST	B					
AGRIDE/EX			1.0 % v/v	POST	B					
AMSOL			2.0 % v/v	POST	B					
3 RESTRAINT	6.49	EC	36.0 oz/a	PRE	A		1.3 -	98.0 a	85.0 bc	72.5 ab
AATREX	4 L		32.0 oz/a	PRE	A					99.0 a
SHIELD/EX	3.33	SC	1.35 oz/a	POST	B					
AATREX	4 L		16.0 oz/a	POST	B					
LIBERTY	2.34	SL	22.0 oz/a	POST	B					
AGRIDE/EX			1.0 % v/v	POST	B					
AMSOL			2.0 % v/v	POST	B					
4 SURTAIN	1.63	ZC	11.0 oz/a	PRE	A		1.3 -	99.0 a	97.0 a	81.3 a
LIBERTY ULTRA-BAS-101005H	1.76	SL	24.0 oz/a	POST	B					99.0 a
STATUS	56	WG	5.0 oz/a	POST	B					
AMSOL			2.0 % v/v	POST	B					
5 AATREX	4 L		32.0 oz/a	PRE	A		0.0 -	63.8 b	73.8 c	52.5 c
SURMISE 5 (GLUFOSINATE)	4.6	SL	16.4 oz/a	POST	B					96.8 a
CALLISTO	4	SC	3.0 oz/a	POST	B					
AMSOL			2.0 % v/v	POST	B					
6 OUTLOOK	6	EC	16.0 oz/a	PRE	A		2.5 -	74.3 b	0.0 d	71.3 ab
LIBERTY	2.34	SL	32.0 oz/a	POST	B					0.0 b
AATREX	4 L		64.0 oz/a	POST	B					
PROWL H2O	3.8	SC	32.0 oz/a	POST	B					
LSD P=.10							2.36	12.19	11.73	12.82
Standard Deviation							1.90	9.84	9.46	10.34
CV							228.04	13.66	16.48	17.99
Grand Mean							0.83	72.00	57.42	57.50
Bartlett's X2^							10.229	25.907*	5.949	4.745
P(Bartlett's X2)							0.069	0.00*	0.311	0.448
Replicate F							0.769	0.386	1.341	4.234
Replicate Prob(F)							0.5289	0.7648	0.2986	0.0235
Treatment F							1.154	60.245	90.845	32.984
Treatment Prob(F)							0.3759	0.0001	0.0001	0.0001

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Trial ID: CN-05-24		Study Dir.: J. TURNER/J. SMITH								
Location: PONDER FARM		Investigator: Eric P. Prostko								
Weed Code							Zeama Stunting %	Zeama Bleaching %	Zeama Necrosis %	Amapa Control %
Crop Code							May-7-24	May-7-24	May-7-24	May-7-24
Rating Data Type										
Rating Unit										
Rating Date										
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Stg	Appl Code	16	17	18	19
1	NTC						0.0 c	0.0 na	0.0 na	0.0 na
2	RESTRAINT	6.49	EC	36.0 oz/a	PRE	A	8.8 ab	0.0 na	0.0 na	99.0 na
	AATREX	4	L	32.0 oz/a	PRE	A				92.5 ab
	SHIELD/EX	3.33	SC	1.35 oz/a	POST	B				
	AATREX	4	L	16.0 oz/a	POST	B				
	ROUNDUP POWERMAX3	5.88	SL	30.0 oz/a	POST	B				
	AGRIDEX			1.0 % v/v	POST	B				
	AMSOL			2.0 % v/v	POST	B				
3	RESTRAINT	6.49	EC	36.0 oz/a	PRE	A	3.8 bc	0.0 na	0.0 na	99.0 na
	AATREX	4	L	32.0 oz/a	PRE	A				93.5 a
	SHIELD/EX	3.33	SC	1.35 oz/a	POST	B				
	AATREX	4	L	16.0 oz/a	POST	B				
	LIBERTY	2.34	SL	22.0 oz/a	POST	B				
	AGRIDEX			1.0 % v/v	POST	B				
	AMSOL			2.0 % v/v	POST	B				
4	SUR/AIN	1.63	ZC	11.0 oz/a	PRE	A	12.5 a	0.0 na	0.0 na	99.0 na
	LIBERTY ULTRA-BAS-101005H	1.76	SL	24.0 oz/a	POST	B				97.0 a
	STATUS	56	WG	5.0 oz/a	POST	B				
	AMSOL			2.0 % v/v	POST	B				
5	AATREX	4	L	32.0 oz/a	PRE	A	1.3 c	0.0 na	0.0 na	99.0 na
	SUR/ISE 5 (GLUFOSINATE)	4.6	SL	16.4 oz/a	POST	B				87.5 b
	CALLISTO	4	SC	3.0 oz/a	POST	B				
	AMSOL			2.0 % v/v	POST	B				
6	OUTLOOK	6	EC	16.0 oz/a	PRE	A	11.3 a	0.0 na	0.0 na	99.0 na
	LIBERTY	2.34	SL	32.0 oz/a	POST	B				94.5 a
	AATREX	4	L	64.0 oz/a	POST	B				
	PROWL H2O	3.8	SC	32.0 oz/a	POST	B				
LSD P=.10							5.43	.	.	5.52
Standard Deviation							4.38	0.00	0.00	4.45
CV							70.05	0.0	0.0	5.74
Grand Mean							6.25	0.00	0.00	77.50
Bartlett's X2^							11.003	.	.	4.765
P(Bartlett's X2)							0.051	.	.	0.445
Replicate F							0.217	NaN	NaN	0.960
Replicate Prob(F)							0.8828	NaN	NaN	0.4372
Treatment F							5.870	NaN	NaN	293.192
Treatment Prob(F)							0.0034	NaN	NaN	0.0001

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.

Could not calculate LSD (% mean diff) or mean separation letters for columns 2,10,17,18,19,22 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

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RESTRAINT/SHIELDEX/LIBERTY ULTRA IN LL FIELD CORN										
Trial ID: CN-05-24		Study Dir.: J. TURNER/J. SMITH								
Location: PONDER FARM		Investigator: Eric P. Prostko								
Weed Code							Agrass	Molve	Arahy	Amapa
Crop Code							Control	Conttol	Control	Zeama
Rating Data Type							%	%	%	Stunting
Rating Unit							May-7-24	May-7-24	May-7-24	May-23-24
Rating Date										Control
										%
Trt	Treatment	Form	Form	Rate	Grow	Appl	21	22	23	24
No. Name		Conc	Type	Rate	Unit	Stg				25
1	NTC						0.0 b	0.0 na	0.0 b	0.0 -
2	RESTRAINT	6.49 EC		36.0 oz/a	PRE	A	99.0 a	99.0 na	94.8 a	5.0 -
	AATREX	4 L		32.0 oz/a	PRE	A				99.0 a
	SHIELDEX	3.33 SC		1.35 oz/a	POST	B				
	AATREX	4 L		16.0 oz/a	POST	B				
	ROUNDUP POWERMAX3	5.88 SL		30.0 oz/a	POST	B				
	AGRIDEX			1.0 % v/v	POST	B				
	AMSOL			2.0 % v/v	POST	B				
3	RESTRAINT	6.49 EC		36.0 oz/a	PRE	A	98.0 a	99.0 na	95.8 a	2.5 -
	AATREX	4 L		32.0 oz/a	PRE	A				98.0 a
	SHIELDEX	3.33 SC		1.35 oz/a	POST	B				
	AATREX	4 L		16.0 oz/a	POST	B				
	LIBERTY	2.34 SL		22.0 oz/a	POST	B				
	AGRIDEX			1.0 % v/v	POST	B				
	AMSOL			2.0 % v/v	POST	B				
4	SURTAIN	1.63 ZC		11.0 oz/a	PRE	A	99.0 a	99.0 na	95.8 a	7.5 -
	LIBERTY ULTRA-BAS-101005H	1.76 SL		24.0 oz/a	POST	B				96.8 a
	STATUS	56 WG		5.0 oz/a	POST	B				
	AMSOL			2.0 % v/v	POST	B				
5	AATREX	4 L		32.0 oz/a	PRE	A	99.0 a	99.0 na	93.5 a	0.0 -
	SURMISE 5 (GLUFOSINATE)	4.6 SL		16.4 oz/a	POST	B				99.0 a
	CALLISTO	4 SC		3.0 oz/a	POST	B				
	AMSOL			2.0 % v/v	POST	B				
6	OUTLOOK	6 EC		16.0 oz/a	PRE	A	99.0 a	99.0 na	92.3 a	7.5 -
	LIBERTY	2.34 SL		32.0 oz/a	POST	B				99.0 a
	AATREX	4 L		64.0 oz/a	POST	B				
	PROWL H2O	3.8 SC		32.0 oz/a	POST	B				
LSD P=.10							1.01	.	3.77	5.73
Standard Deviation							0.82	0.00	3.04	4.62
CV							0.99	0.0	3.87	123.33
Grand Mean							82.33	82.50	78.67	3.75
Bartlett's X2^							17.097*	.	2.414	5.969
P(Bartlett's X2)							0.004*	.	0.789	0.309
Replicate F							1.000	NaN	6.466	0.844
Replicate Prob(F)							0.4199	NaN	0.0050	0.4909
Treatment F							9762.400	NaN	643.442	2.221
Treatment Prob(F)							0.0001	NaN	0.0001	0.1061
										0.0001

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.

Could not calculate LSD (% mean diff) or mean separation letters for columns 2,10,17,18,19,22 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

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RESTRAINT/SHIELD/EX/LIBERTY ULTRA IN LL FIELD CORN										
Trial ID: CN-05-24		Study Dir.: J. TURNER/J. SMITH								
Location: PONDER FARM		Investigator: Eric P. Prostko								
Weed Code Crop Code Rating Data Type Rating Unit Rating Date							Rapra Control % May-23-24	Agrass Control % May-23-24	----- ZEAMA YIELD LBS/PLOT Aug-29-24	----- ZEAMA YIELD BU/A Aug-29-24
Trt	Treatment	Form	Form	Rate	Grow	Appl	26	27	28	29
No.	Name	Conc	Type	Rate	Unit	Stg				
1	NTC						0.0 c	0.0 c	25.5 -	133.3 -
2	RESTRAINT	6.49	EC	36.0	oz/a	PRE A	91.3 a	97.0 a	32.8 -	171.1 -
	AATREX	4	L	32.0	oz/a	PRE A				
	SHIELD/EX	3.33	SC	1.35	oz/a	POST B				
	AATREX	4	L	16.0	oz/a	POST B				
	ROUNDUP POWERMAX3	5.88	SL	30.0	oz/a	POST B				
	AGRIDEX			1.0	% v/v	POST B				
	AMSOL			2.0	% v/v	POST B				
3	RESTRAINT	6.49	EC	36.0	oz/a	PRE A	86.3 b	93.5 b	36.3 -	189.4 -
	AATREX	4	L	32.0	oz/a	PRE A				
	SHIELD/EX	3.33	SC	1.35	oz/a	POST B				
	AATREX	4	L	16.0	oz/a	POST B				
	LIBERTY	2.34	SL	22.0	oz/a	POST B				
	AGRIDEX			1.0	% v/v	POST B				
	AMSOL			2.0	% v/v	POST B				
4	SURTAIN	1.63	ZC	11.0	oz/a	PRE A	86.3 b	97.0 a	32.8 -	171.1 -
	LIBERTY ULTRA-BAS-101005H	1.76	SL	24.0	oz/a	POST B				
	STATUS	56	WG	5.0	oz/a	POST B				
	AMSOL			2.0	% v/v	POST B				
5	AATREX	4	L	32.0	oz/a	PRE A	90.0 ab	96.0 ab	34.0 -	177.7 -
	SURMISE 5 (GLUFOSINATE)	4.6	SL	16.4	oz/a	POST B				
	CALLISTO	4	SC	3.0	oz/a	POST B				
	AMSOL			2.0	% v/v	POST B				
6	OUTLOOK	6	EC	16.0	oz/a	PRE A	91.0 a	97.0 a	38.3 -	199.9 -
	LIBERTY	2.34	SL	32.0	oz/a	POST B				
	AATREX	4	L	64.0	oz/a	POST B				
	PROWL H2O	3.8	SC	32.0	oz/a	POST B				
LSD P=.10							4.45	2.63	7.76	40.53
Standard Deviation							3.59	2.12	6.26	32.69
CV							4.84	2.65	18.82	18.82
Grand Mean							74.13	80.08	33.25	173.75
Bartlett's X2^							5.13	5.734	3.744	3.744
P(Bartlett's X2)							0.40	0.333	0.587	0.587
Replicate F							13.337	3.667	7.620	7.620
Replicate Prob(F)							0.0002	0.0366	0.0025	0.0025
Treatment F							411.252	1369.815	1.944	1.944
Treatment Prob(F)							0.0001	0.0001	0.1463	0.1463

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.

Could not calculate LSD (% mean diff) or mean separation letters for columns 2,10,17,18,19,22 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0

^Calculated from residual.

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RESTRAINT/SHIELDEX/LIBERTY ULTRA IN LL FIELD CORN	
Trial ID: CN-05-24	Study Dir.: J. TURNER/J. SMITH
Location: PONDER FARM	Investigator: Eric P. Prostko
Rating Unit	
% = PERCENT	
ARM Action Codes	
TY1 = 5.2256044*[28]	

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RESTRAINT/SHIELDDEX/LIBERTY ULTRA IN LL FIELD CORN					
Trial ID: CN-05-24		Study Dir.: J. TURNER/J. SMITH			
Location: PONDER FARM		Investigator: Eric P. Prostko			

Weed Code							Zeama Stunting %	Amapa Control %	Agrass Control %	Rapra Control %		
Crop Code												
Rating Data Type							Apr-15-24	Apr-15-24	Apr-15-24	Apr-15-24		
Rating Unit												
Rating Date												
Trt	Treatment	Form	Form	Rate	Grow	Appl						
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	1	2	3	4
1	NTC							101	0.0	0.0	0.0	0.0
								205	0.0	0.0	0.0	0.0
								304	0.0	0.0	0.0	0.0
								401	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0
2	RESTRAINT	6.49	EC	36.0	oz/a	PRE	A	102	0.0	99.0	99.0	99.0
	AATREX	4	L	32.0	oz/a	PRE	A	203	0.0	99.0	99.0	99.0
	SHIELDDEX	3.33	SC	1.35	oz/a	POST	B	302	0.0	99.0	85.0	90.0
	AATREX	4	L	16.0	oz/a	POST	B	406	5.0	99.0	95.0	85.0
	ROUNDUP POWERMAX3	5.88	SL	30.0	oz/a	POST	B					
	AGRIDEX			1.0	% v/v	POST	B					
	AMSOL			2.0	% v/v	POST	B					
								Mean =	1.3	99.0	94.5	93.3
3	RESTRAINT	6.49	EC	36.0	oz/a	PRE	A	103	0.0	99.0	95.0	95.0
	AATREX	4	L	32.0	oz/a	PRE	A	201	5.0	99.0	90.0	99.0
	SHIELDDEX	3.33	SC	1.35	oz/a	POST	B	305	5.0	99.0	99.0	99.0
	AATREX	4	L	16.0	oz/a	POST	B	403	0.0	99.0	85.0	75.0
	LIBERTY	2.34	SL	22.0	oz/a	POST	B					
	AGRIDEX			1.0	% v/v	POST	B					
	AMSOL			2.0	% v/v	POST	B					
								Mean =	2.5	99.0	92.3	92.0
4	SURTAIN	1.63	ZC	11.0	oz/a	PRE	A	104	0.0	99.0	95.0	99.0
	LIBERTY ULTRA-BAS-101005H	1.76	SL	24.0	oz/a	POST	B	202	0.0	99.0	95.0	99.0
	STATUS	56	WG	5.0	oz/a	POST	B	301	0.0	99.0	99.0	99.0
	AMSOL			2.0	% v/v	POST	B	402	5.0	99.0	99.0	99.0
								Mean =	1.3	99.0	97.0	99.0
5	AATREX	4	L	32.0	oz/a	PRE	A	105	0.0	99.0	50.0	99.0
	SURMISE 5 (GLUFOSINATE)	4.6	SL	16.4	oz/a	POST	B	206	0.0	99.0	99.0	90.0
	CALLISTO	4	SC	3.0	oz/a	POST	B	303	0.0	99.0	50.0	85.0
	AMSOL			2.0	% v/v	POST	B	404	0.0	99.0	85.0	85.0
								Mean =	0.0	99.0	71.0	89.8
6	OUTLOOK	6	EC	16.0	oz/a	PRE	A	106	0.0	99.0	95.0	0.0
	LIBERTY	2.34	SL	32.0	oz/a	POST	B	204	0.0	99.0	99.0	0.0
	AATREX	4	L	64.0	oz/a	POST	B	306	5.0	99.0	90.0	85.0
	PROWL H2O	3.8	SC	32.0	oz/a	POST	B	405	5.0	99.0	95.0	50.0
								Mean =	2.5	99.0	94.8	33.8

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RESTRAINT/SHIELDDEX/LIBERTY ULTRA IN LL FIELD CORN					
Trial ID: CN-05-24		Study Dir.: J. TURNER/J. SMITH			
Location: PONDER FARM		Investigator: Eric P. Prostko			

Weed Code Crop Code Rating Data Type Rating Unit Rating Date							Zeama Stunting %	Amapa Control %	Agrass Control %	Rapra Control %
							Apr-22-24	Apr-22-24	Apr-22-24	Apr-22-24
Trt	Treatment	Form	Form	Rate	Grow	Appl				
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot		
1	NTC									
							101	0.0	0.0	0.0
							205	0.0	0.0	0.0
							304	0.0	0.0	0.0
							401	0.0	0.0	0.0
							Mean =	0.0	0.0	0.0
2	RESTRAINT	6.49	EC	36.0 oz/a	PRE	A	102	5.0	95.0	65.0
	AATREX	4 L		32.0 oz/a	PRE	A	203	0.0	99.0	85.0
	SHIELDDEX	3.33	SC	1.35 oz/a	POST	B	302	10.0	99.0	85.0
	AATREX	4 L		16.0 oz/a	POST	B	406	10.0	99.0	65.0
	ROUNDUP POWERMAX3	5.88	SL	30.0 oz/a	POST	B				
	AGRIDEX			1.0 % v/v	POST	B				
	AMSOL			2.0 % v/v	POST	B				
							Mean =	6.3	98.0	75.0
3	RESTRAINT	6.49	EC	36.0 oz/a	PRE	A	103	0.0	95.0	85.0
	AATREX	4 L		32.0 oz/a	PRE	A	201	10.0	99.0	80.0
	SHIELDDEX	3.33	SC	1.35 oz/a	POST	B	305	5.0	99.0	95.0
	AATREX	4 L		16.0 oz/a	POST	B	403	0.0	95.0	90.0
	LIBERTY	2.34	SL	22.0 oz/a	POST	B				
	AGRIDEX			1.0 % v/v	POST	B				
	AMSOL			2.0 % v/v	POST	B				
							Mean =	3.8	97.0	87.5
4	SURTAIN	1.63	ZC	11.0 oz/a	PRE	A	104	10.0	95.0	95.0
	LIBERTY ULTRA-BAS-101005H	1.76	SL	24.0 oz/a	POST	B	202	10.0	99.0	90.0
	STATUS	56	WG	5.0 oz/a	POST	B	301	0.0	99.0	90.0
	AMSOL			2.0 % v/v	POST	B	402	10.0	99.0	90.0
							Mean =	7.5	98.0	91.3
5	AATREX	4 L		32.0 oz/a	PRE	A	105	5.0	85.0	20.0
	SURMISE 5 (GLUFOSINATE)	4.6	SL	16.4 oz/a	POST	B	206	0.0	95.0	75.0
	CALLISTO	4	SC	3.0 oz/a	POST	B	303	0.0	85.0	50.0
	AMSOL			2.0 % v/v	POST	B	404	0.0	99.0	60.0
							Mean =	1.3	91.0	51.3
6	OUTLOOK	6	EC	16.0 oz/a	PRE	A	106	15.0	95.0	65.0
	LIBERTY	2.34	SL	32.0 oz/a	POST	B	204	10.0	85.0	82.0
	AATREX	4 L		64.0 oz/a	POST	B	306	5.0	85.0	90.0
	PROWL H2O	3.8	SC	32.0 oz/a	POST	B	405	0.0	99.0	85.0
							Mean =	7.5	91.0	80.5

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RESTRAINT/SHIELDDEX/LIBERTY ULTRA IN LL FIELD CORN					
Trial ID: CN-05-24		Study Dir.: J. TURNER/J. SMITH			
Location: PONDER FARM		Investigator: Eric P. Prostko			

Weed Code							Zeama	Zeama	Zeama	Amapa
Crop Code							Stunting	Bleaching	Necrosis	Control
Rating Data Type							%	%	%	%
Rating Unit										
Rating Date							Apr-29-24	Apr-29-24	Apr-29-24	Apr-29-24
Trt	Treatment	Form	Form	Rate	Grow	Appl				
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot		
1	NTC									
							101		0.0	0.0
							205		0.0	0.0
							304		0.0	0.0
							401		0.0	0.0
							Mean =		0.0	0.0
2	RESTRAINT	6.49	EC	36.0	oz/a	PRE	A	102	0.0	0.0
	AATREX	4	L	32.0	oz/a	PRE	A	203	0.0	0.0
	SHIELDDEX	3.33	SC	1.35	oz/a	POST	B	302	15.0	0.0
	AATREX	4	L	16.0	oz/a	POST	B	406	10.0	0.0
	ROUNDUP POWERMAX3	5.88	SL	30.0	oz/a	POST	B			
	AGRIDEX			1.0	% v/v	POST	B			
	AMSOL			2.0	% v/v	POST	B			
							Mean =		6.3	0.0
3	RESTRAINT	6.49	EC	36.0	oz/a	PRE	A	103	0.0	0.0
	AATREX	4	L	32.0	oz/a	PRE	A	201	10.0	0.0
	SHIELDDEX	3.33	SC	1.35	oz/a	POST	B	305	5.0	0.0
	AATREX	4	L	16.0	oz/a	POST	B	403	10.0	0.0
	LIBERTY	2.34	SL	22.0	oz/a	POST	B			
	AGRIDEX			1.0	% v/v	POST	B			
	AMSOL			2.0	% v/v	POST	B			
							Mean =		6.3	0.0
4	SURTAIN	1.63	ZC	11.0	oz/a	PRE	A	104	15.0	0.0
	LIBERTY ULTRA-BAS-101005H	1.76	SL	24.0	oz/a	POST	B	202	10.0	0.0
	STATUS	56	WG	5.0	oz/a	POST	B	301	5.0	0.0
	AMSOL			2.0	% v/v	POST	B	402	15.0	0.0
							Mean =		11.3	0.0
5	AATREX	4	L	32.0	oz/a	PRE	A	105	0.0	0.0
	SURMISE 5 (GLUFOSINATE)	4.6	SL	16.4	oz/a	POST	B	206	0.0	0.0
	CALLISTO	4	SC	3.0	oz/a	POST	B	303	0.0	0.0
	AMSOL			2.0	% v/v	POST	B	404	5.0	0.0
							Mean =		1.3	0.0
6	OUTLOOK	6	EC	16.0	oz/a	PRE	A	106	10.0	0.0
	LIBERTY	2.34	SL	32.0	oz/a	POST	B	204	10.0	0.0
	AATREX	4	L	64.0	oz/a	POST	B	306	5.0	0.0
	PROWL H2O	3.8	SC	32.0	oz/a	POST	B	405	5.0	0.0
							Mean =		7.5	0.0

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RESTRAINT/SHIELDDEX/LIBERTY ULTRA IN LL FIELD CORN											
Trial ID: CN-05-24						Study Dir.: J. TURNER/J. SMITH					
Location: PONDER FARM						Investigator: Eric P. Prostko					
Weed Code						Rapra	Agrass	Molve	Zeama	Zeama	
Crop Code						Control	Control	Control	Stunting	Bleaching	
Rating Data Type						%	%	%	%	%	
Rating Unit						Apr-29-24	Apr-29-24	Apr-29-24	May-7-24	May-7-24	
Rating Date											
Trt	Treatment	Form	Form	Rate	Grow	Appl					
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot			
1	NTC										
							101		0.0		
							205		0.0		
							304		0.0		
							401		0.0		
							Mean =		0.0		
2	RESTRAINT	6.49	EC	36.0	oz/a	PRE	A	102	85.0	60.0	99.0
	AATREX	4	L	32.0	oz/a	PRE	A	203	85.0	75.0	99.0
	SHIELDDEX	3.33	SC	1.35	oz/a	POST	B	302	90.0	70.0	99.0
	AATREX	4	L	16.0	oz/a	POST	B	406	95.0	65.0	99.0
	ROUNDUP POWERMAX3	5.88	SL	30.0	oz/a	POST	B				
	AGRIDEX			1.0	% v/v	POST	B				
	AMSOL			2.0	% v/v	POST	B				
							Mean =		88.8	67.5	99.0
3	RESTRAINT	6.49	EC	36.0	oz/a	PRE	A	103	95.0	65.0	99.0
	AATREX	4	L	32.0	oz/a	PRE	A	201	95.0	65.0	99.0
	SHIELDDEX	3.33	SC	1.35	oz/a	POST	B	305	85.0	85.0	99.0
	AATREX	4	L	16.0	oz/a	POST	B	403	65.0	75.0	99.0
	LIBERTY	2.34	SL	22.0	oz/a	POST	B				
	AGRIDEX			1.0	% v/v	POST	B				
	AMSOL			2.0	% v/v	POST	B				
							Mean =		85.0	72.5	99.0
4	SURTAIN	1.63	ZC	11.0	oz/a	PRE	A	104	99.0	75.0	99.0
	LIBERTY ULTRA-BAS-101005H	1.76	SL	24.0	oz/a	POST	B	202	95.0	75.0	99.0
	STATUS	56	WG	5.0	oz/a	POST	B	301	95.0	85.0	99.0
	AMSOL			2.0	% v/v	POST	B	402	99.0	90.0	99.0
							Mean =		97.0	81.3	99.0
5	AATREX	4	L	32.0	oz/a	PRE	A	105	95.0	20.0	99.0
	SURMISE 5 (GLUFOSINATE)	4.6	SL	16.4	oz/a	POST	B	206	75.0	75.0	99.0
	CALLISTO	4	SC	3.0	oz/a	POST	B	303	75.0	65.0	90.0
	AMSOL			2.0	% v/v	POST	B	404	50.0	50.0	99.0
							Mean =		73.8	52.5	96.8
6	OUTLOOK	6	EC	16.0	oz/a	PRE	A	106	0.0	50.0	0.0
	LIBERTY	2.34	SL	32.0	oz/a	POST	B	204	0.0	75.0	0.0
	AATREX	4	L	64.0	oz/a	POST	B	306	0.0	85.0	0.0
	PROWL H2O	3.8	SC	32.0	oz/a	POST	B	405	0.0	75.0	0.0
							Mean =		0.0	71.3	0.0

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RESTRAINT/SHIELDDEX/LIBERTY ULTRA IN LL FIELD CORN											
Trial ID: CN-05-24						Study Dir.: J. TURNER/J. SMITH					
Location: PONDER FARM						Investigator: Eric P. Prostko					
Weed Code						Zeama Necrosis %		Amapa Control %	Rapra Control %	Agrass Control %	Molve Conttol %
Crop Code						May-7-24		May-7-24	May-7-24	May-7-24	May-7-24
Rating Data Type											
Rating Unit											
Rating Date											
Trt	Treatment	Form	Form	Rate	Grow	Appl	18	19	20	21	22
No.	Name	Conc	Type	Rate	Unit	Stg					
1	NTC						0.0	0.0	0.0	0.0	0.0
							0.0	0.0	0.0	0.0	0.0
							0.0	0.0	0.0	0.0	0.0
							0.0	0.0	0.0	0.0	0.0
						Mean =	0.0	0.0	0.0	0.0	0.0
2	RESTRAINT	6.49	EC	36.0	oz/a	PRE A	0.0	99.0	90.0	99.0	99.0
	AATREX	4	L	32.0	oz/a	PRE A	0.0	99.0	95.0	99.0	99.0
	SHIELDDEX	3.33	SC	1.35	oz/a	POST B	0.0	99.0	90.0	99.0	99.0
	AATREX	4	L	16.0	oz/a	POST B	0.0	99.0	95.0	99.0	99.0
	ROUNDUP POWERMAX3	5.88	SL	30.0	oz/a	POST B					
	AGRIDEX			1.0	% v/v	POST B					
	AMSOL			2.0	% v/v	POST B					
						Mean =	0.0	99.0	92.5	99.0	99.0
3	RESTRAINT	6.49	EC	36.0	oz/a	PRE A	0.0	99.0	99.0	95.0	99.0
	AATREX	4	L	32.0	oz/a	PRE A	0.0	99.0	95.0	99.0	99.0
	SHIELDDEX	3.33	SC	1.35	oz/a	POST B	0.0	99.0	95.0	99.0	99.0
	AATREX	4	L	16.0	oz/a	POST B	0.0	99.0	85.0	99.0	99.0
	LIBERTY	2.34	SL	22.0	oz/a	POST B					
	AGRIDEX			1.0	% v/v	POST B					
	AMSOL			2.0	% v/v	POST B					
						Mean =	0.0	99.0	93.5	98.0	99.0
4	SURTAIN	1.63	ZC	11.0	oz/a	PRE A	0.0	99.0	95.0	99.0	99.0
	LIBERTY ULTRA-BAS-101005H	1.76	SL	24.0	oz/a	POST B	0.0	99.0	99.0	99.0	99.0
	STATUS	56	WG	5.0	oz/a	POST B	0.0	99.0	99.0	99.0	99.0
	AMSOL			2.0	% v/v	POST B	0.0	99.0	95.0	99.0	99.0
						Mean =	0.0	99.0	97.0	99.0	99.0
5	AATREX	4	L	32.0	oz/a	PRE A	0.0	99.0	95.0	99.0	99.0
	SURMISE 5 (GLUFOSINATE)	4.6	SL	16.4	oz/a	POST B	0.0	99.0	90.0	99.0	99.0
	CALLISTO	4	SC	3.0	oz/a	POST B	0.0	99.0	85.0	99.0	99.0
	AMSOL			2.0	% v/v	POST B	0.0	99.0	80.0	99.0	99.0
						Mean =	0.0	99.0	87.5	99.0	99.0
6	OUTLOOK	6	EC	16.0	oz/a	PRE A	0.0	99.0	90.0	99.0	99.0
	LIBERTY	2.34	SL	32.0	oz/a	POST B	0.0	99.0	99.0	99.0	99.0
	AATREX	4	L	64.0	oz/a	POST B	0.0	99.0	90.0	99.0	99.0
	PROWL H2O	3.8	SC	32.0	oz/a	POST B	0.0	99.0	99.0	99.0	99.0
						Mean =	0.0	99.0	94.5	99.0	99.0

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RESTRAINT/SHIELDDEX/LIBERTY ULTRA IN LL FIELD CORN										
Trial ID: CN-05-24		Study Dir.: J. TURNER/J. SMITH								
Location: PONDER FARM		Investigator: Eric P. Prostko								
Weed Code							Arahy		Zeama	
Crop Code							Control		Stunting	
Rating Data Type							%		%	
Rating Unit							May-7-24		May-23-24	
Rating Date										
Trt Treatment	Form	Form	Rate	Grow	Appl					
No. Name	Conc	Type	Rate	Unit	Stg	Code Plot	23	24	25	26
1 NTC						101	0.0	0.0	0.0	0.0
						205	0.0	0.0	0.0	0.0
						304	0.0	0.0	0.0	0.0
						401	0.0	0.0	0.0	0.0
						Mean =	0.0	0.0	0.0	0.0
2 RESTRAINT	6.49	EC	36.0 oz/a	PRE	A	102	90.0	0.0	99.0	95.0
AATREX	4 L		32.0 oz/a	PRE	A	203	95.0	0.0	99.0	90.0
SHIELDDEX	3.33	SC	1.35 oz/a	POST	B	302	99.0	15.0	99.0	95.0
AATREX	4 L		16.0 oz/a	POST	B	406	95.0	5.0	99.0	85.0
ROUNDUP POWERMAX3	5.88	SL	30.0 oz/a	POST	B					
AGRIDEX			1.0 % v/v	POST	B					
AMSOL			2.0 % v/v	POST	B					
						Mean =	94.8	5.0	99.0	91.3
3 RESTRAINT	6.49	EC	36.0 oz/a	PRE	A	103	90.0	0.0	99.0	90.0
AATREX	4 L		32.0 oz/a	PRE	A	201	99.0	10.0	99.0	90.0
SHIELDDEX	3.33	SC	1.35 oz/a	POST	B	305	99.0	0.0	99.0	90.0
AATREX	4 L		16.0 oz/a	POST	B	403	95.0	0.0	95.0	75.0
LIBERTY	2.34	SL	22.0 oz/a	POST	B					
AGRIDEX			1.0 % v/v	POST	B					
AMSOL			2.0 % v/v	POST	B					
						Mean =	95.8	2.5	98.0	86.3
4 SURTAIN	1.63	ZC	11.0 oz/a	PRE	A	104	90.0	0.0	99.0	95.0
LIBERTY ULTRA-BAS-101005H	1.76	SL	24.0 oz/a	POST	B	202	99.0	10.0	99.0	85.0
STATUS	56	WG	5.0 oz/a	POST	B	301	99.0	15.0	90.0	90.0
AMSOL			2.0 % v/v	POST	B	402	95.0	5.0	99.0	75.0
						Mean =	95.8	7.5	96.8	86.3
5 AATREX	4 L		32.0 oz/a	PRE	A	105	90.0	0.0	99.0	95.0
SURMISE 5 (GLUFOSINATE)	4.6	SL	16.4 oz/a	POST	B	206	90.0	0.0	99.0	90.0
CALLISTO	4	SC	3.0 oz/a	POST	B	303	95.0	0.0	99.0	95.0
AMSOL			2.0 % v/v	POST	B	404	99.0	0.0	99.0	80.0
						Mean =	93.5	0.0	99.0	90.0
6 OUTLOOK	6	EC	16.0 oz/a	PRE	A	106	85.0	10.0	99.0	99.0
LIBERTY	2.34	SL	32.0 oz/a	POST	B	204	90.0	5.0	99.0	90.0
AATREX	4 L		64.0 oz/a	POST	B	306	95.0	5.0	99.0	90.0
PROWL H2O	3.8	SC	32.0 oz/a	POST	B	405	99.0	10.0	99.0	85.0
						Mean =	92.3	7.5	99.0	91.0

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RESTRAINT/SHIELDDEX/LIBERTY ULTRA IN LL FIELD CORN									
Trial ID: CN-05-24		Study Dir.: J. TURNER/J. SMITH							
Location: PONDER FARM		Investigator: Eric P. Prostko							
Weed Code Crop Code Rating Data Type Rating Unit Rating Date							Agrass Control % May-23-24	----- ZEAMA YIELD LBS/PLOT Aug-29-24	----- ZEAMA YIELD BU/A Aug-29-24
Trt	Treatment	Form	Form	Rate	Grow	Appl			
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	
1	NTC								
							101	0.0	24.0
							205	0.0	42.0
							304	0.0	24.0
							401	0.0	12.0
							Mean =	0.0	25.5
2	RESTRAINT	6.49	EC	36.0	oz/a	PRE	A	102	95.0
	AATREX	4	L	32.0	oz/a	PRE	A	203	95.0
	SHIELDDEX	3.33	SC	1.35	oz/a	POST	B	302	99.0
	AATREX	4	L	16.0	oz/a	POST	B	406	99.0
	ROUNDUP POWERMAX3	5.88	SL	30.0	oz/a	POST	B		
	AGRIDEX			1.0	% v/v	POST	B		
	AMSOL			2.0	% v/v	POST	B		
							Mean =	97.0	32.8
3	RESTRAINT	6.49	EC	36.0	oz/a	PRE	A	103	90.0
	AATREX	4	L	32.0	oz/a	PRE	A	201	95.0
	SHIELDDEX	3.33	SC	1.35	oz/a	POST	B	305	99.0
	AATREX	4	L	16.0	oz/a	POST	B	403	90.0
	LIBERTY	2.34	SL	22.0	oz/a	POST	B		
	AGRIDEX			1.0	% v/v	POST	B		
	AMSOL			2.0	% v/v	POST	B		
							Mean =	93.5	36.3
4	SURTAIN	1.63	ZC	11.0	oz/a	PRE	A	104	95.0
	LIBERTY ULTRA-BAS-101005H	1.76	SL	24.0	oz/a	POST	B	202	99.0
	STATUS	56	WG	5.0	oz/a	POST	B	301	99.0
	AMSOL			2.0	% v/v	POST	B	402	95.0
							Mean =	97.0	32.8
5	AATREX	4	L	32.0	oz/a	PRE	A	105	95.0
	SURMISE 5 (GLUFOSINATE)	4.6	SL	16.4	oz/a	POST	B	206	95.0
	CALLISTO	4	SC	3.0	oz/a	POST	B	303	99.0
	AMSOL			2.0	% v/v	POST	B	404	95.0
							Mean =	96.0	34.0
6	OUTLOOK	6	EC	16.0	oz/a	PRE	A	106	99.0
	LIBERTY	2.34	SL	32.0	oz/a	POST	B	204	95.0
	AATREX	4	L	64.0	oz/a	POST	B	306	99.0
	PROWL H2O	3.8	SC	32.0	oz/a	POST	B	405	95.0
							Mean =	97.0	38.3

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RESTRAINT/SHIELDEX/LIBERTY ULTRA IN LL FIELD CORN	
Trial ID: CN-05-24	Study Dir.: J. TURNER/J. SMITH
Location: PONDER FARM	Investigator: Eric P. Prostko
Rating Unit	
% = PERCENT	
ARM Action Codes	
TY1 = 5.2256044*[28]	