

University of Georgia

RESTRAINT AND SHIELDDEX FOR WEED CONTROL IN FIELD CORN

Trial ID: CN-09-21 Study Dir.: JAY TURNER
 Location: PONDER FARM Investigator: Eric P. Prostko

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	Rate	Unit	Grow Stg	Appl Code	Amt Product to Measure	Diluent	Rep			
										1	2	3	4
14	RESTRAINT	6.498	EC	30.0	oz/a	EPOST	B	23.44 mL/mx	1436.6 mL	114	206	311	407
	ATRAZINE	4 L		32.0	oz/a	EPOST	B	25.0 mL/mx					
	AGRIDEX			1.0	% v/v	EPOST	B	15.0 mL/mx					

Sort Order: Treatment

Trial Comments

RESTRAINT = TOLPYRALATE (0.094 LB/GAL) + ACETOCHLOR (6.404 LB/GAL) + DICHLORMID
 RESICORE = ACETOCHLOR (2.8 LB/GAL) + MESOTRIONE (0.30 LB/GAL) + CLOPYRALID (0.19 LB/GAL)

03/23/21: PRE TRTS 4 + 5: RESICORE WAS VERY HARD TO GET INTO SOLUTION AND CLEAN FROM PLASTIC BOTTLES.

04/07/21: Did not rate crop injury because corn was recovering from frost that occurred on April 2-4

HARVEST MOISTURE: 17.32%
 YIELDS ADJUSTED TO 15.5%

SUMMARY:

- 1) PRE APPLICATIONS OF RESTRAINT OR RESICORE CAUSED MINIMAL CORN INJURY (<3%).
- 2) GENERALLY, PRE APPLICATIONS OF RESTRAINT AND RESICORE PROVIDED WEED CONTROL SIMILAR TO BICEP II MAGNUM. HOWEVER, RESTRAINT @ 18 OZ/A + ATRAZINE APPLIED PRE PROVIDED LESS CONTROL OF ANNUAL GRASSES THAN OTHER PRE'S (ONLY 75% CONTROL ON APRIL 20 - 28 DAP).
- 3) EPOST APPLICATIONS OF RESTRAINT CAUSED SIGNIFICANT CORN LEAF BURN (15%) 7 DAYS AFTER APPLICATION.
- 4) ON APRIL 29 (37 DAP), THE FOLLOWING TREATMENTS CAUSED SIGNIFICANT CORN STUNTING:
 - A) RESICORE @ 40 OZ/A + ATRAZINE (PRE) FB RESTRAINT + ATRAZINE (POST) = 7.5% STUNTING
 - B) BICEP II MAGNUM (PRE) FB LAUDIS + ATRAZINE (POST) = 7.5% STUNTING
 - C) RESTRAINT + ATRAZINE (EPOST) = 15% STUNTING
- 5) ON MAY 14 (52 DAP), THE FOLLOWING OBSERVATIONS WERE MADE:
 - A) CORN INJURY WAS <9% WITH ALL TREATMENTS.
 - B) PALMER AMARANTH CONTROL WAS AT LEAST 93% WITH ALL TREATMENTS.
 - C) WILD RADISH CONTROL WAS AT LEAST 88% WITH ALL TREATMENTS EXCEPT FOR RESTRAINT + ATRAZINE (PRE) - 77% CONTROL
 - D) ANNUAL GRASS CONTROL WAS AT LEAST 82% WITH ALL TREATMENTS EXCEPT SHIELDDEX + ATRAZINE (EPOST) ~73% CONTROL
- 6) CORN YIELDS WERE NOT INFLUENCED BY AN TREATMENT (P=0.5102).

University of Georgia

RESTRAINT AND SHIELD EX FOR WEED CONTROL IN FIELD CORN

Trial ID: CN-09-21 Study Dir.: JAY TURNER
 Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: JAY TURNER **Title:** _____
Affiliation: _____
Postal Code: _____

Investigator: Eric P. Prostko **Title:** _____
Affiliation: _____
Postal Code: _____

TRIAL LOCATION

City: _____ **Trial Status:** E
State/Prov.: _____ **Trial Reliability:** _____
Postal Code: _____ **Initiation Date:** _____
Country: _____ **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.	AMAPA	PA	LMER AMARANTH
2.	RAPRA	WI	LD RADISH
3.	AGRASS	TX	PAN/CROW/GOOSE/CRAB

Crop 1: ZEAMA FIELD CORN **Variety:** PIONEER 1870YHR
Planting Date: Mar-23-21 **Planting Method:** MONOSEM
Rate: 36300 SEED/A **Depth:** 2 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:** RACOBL

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.	PEANUT		2020

MAINTENANCE

Field Prep./Maintenance: 800 LBS/A 5-15-30 - PREPLANT; LUMIGEN SEED TRT;
 127-0-0-16(S) APPLIED APRIL 19 AND APRIL 29
 AXILO BMZ (MICRONUTRIENTS) @ 2 LBS/A APPLIED APRIL 20

University of Georgia

RESTRAINT AND SHIELD EX FOR WEED CONTROL IN FIELD CORN

Trial ID: CN-09-21 Study Dir.: JAY TURNER
 Location: PONDER FARM Investigator: Eric P. Prostko

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

SOIL DESCRIPTION

% Sand: 94 % OM: 0.61 Texture: SAND
 % Silt: 4 pH: 6.0 Soil Name: TIFTON
 % Clay: 2 CEC: 2.5 Fert. Level: GOOD

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.	Mar-24-21		0.4	IN	SPRINKLER - LATERAL MOVE		
2.	Mar-28-21		0.1	IN	RAIN		
3.	Mar-31-21		0.6	IN	SPRINKLER - LATERAL MOVE		
4.	Mar-31-21		0.8	IN	RAIN		
5.	Apr-7-21		0.5	IN	SPRINKLER - LATERAL MOVE		
6.	Apr-9-21		0.27	IN	RAIN		
7.	Apr-10-21		0.05	IN	RAIN		
8.	Apr-11-21		0.08	IN	RAIN		
9.	Apr-17-21		0.10	IN	RAIN		
10.	Apr-18-21		0.01	IN	RAIN		
11.	Apr-20-21		0.35	IN	SPRINKLER - LATERAL MOVE		
12.	Apr-24-21		6.0	IN	RAIN		
13.	May-3-21		0.1	IN	RAIN		
14.	May-4-21		1.15	IN	RAIN		
15.	May-11-21		0.5	IN	SPRINKLER - LATERAL MOVE		
16.	May-11-21		0.15	IN	RAIN		
17.	May-12-21		0.6	IN	RAIN		

Overall Moisture Conditions: _____

Closest Weather Station: _____ Distance: _____ Unit: _____

APPLICATION DESCRIPTION

	A	B	C
Application Date:	Mar-23-21	Apr-13-21	Apr-23-21
Time of Day:	3:45 PM	7:30 AM	7:30 AM
Application Method:	BROADCAST	BROADCAST	BROADCAST
Application Timing:	PRE	EPOST	POST
Applic. Placement:	SOIL	FOLIAGE	FOLIAGE
Air Temp., Unit:	74.3 F	56 F	45 F
% Relative Humidity:	46.3	84	89
Wind Velocity, Unit:	3.5 MPH	2 MPH	1 MPH
Dew Presence (Y/N):	N	Y	Y
Water Hardness:	--	--	--
Soil Temp., Unit:	73.7 F	60 F	56 F
Soil Moisture:	OPTIMUM	OPTIMUM	OPTIMUM
% Cloud Cover:	85	5	15

University of Georgia

RESTRAINT AND SHIELDEX FOR WEED CONTROL IN FIELD CORN			
Trial ID:	CN-09-21	Study Dir.:	JAY TURNER
Location:	PONDER FARM	Investigator:	Eric P. Prostko

CROP STAGE AT EACH APPLICATION			
	A	B	C
Crop 1 Code, Stage:	ZEAMA	ZEAMA	ZEAMA
Stage Scale:		V4	V5
Height, Unit:	IN	5 IN	9 IN

WEED STAGE AT EACH APPLICATION			
	A	B	C
Weed 1 Code, Stage:	AMAPA	AMAPA	AMAPA
Stage Scale:		0.5-1"	--
Density, Unit:			
Weed 2 Code, Stage:	RAPRA	RAPRA	RAPRA
Stage Scale:		3-4"	1"
Density, Unit:			
Weed 3 Code, Stage:	AGRAS	AGRAS	AGRAS
Stage Scale:		0.5-2"	1"
Density, Unit:			

APPLICATION EQUIPMENT			
	A	B	C
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK
Operating Pressure:	35	36	38
Nozzle Type:	AIXR	AIXR	AIXR
Nozzle Size:	11002	11002	11002
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN
Nozzles/Row:			
Band Width, Unit:			
Boom Length, Unit:	60 IN	60 IN	60 IN
Boom Height, Unit:	20 IN	20 IN	20 IN
Ground Speed, Unit:	3.5 MPH	3.5 MPH	3.5 MPH
Incorporation Equip.:			
Hours to Incorp.:			
Incorp. Depth, Unit:			
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA
Spray pH:			
Propellant:	CO2	CO2	CO2
Tank Mix (Y/N):			

Trt No	Treatment Application Comment

University of Georgia

RESTRAINT AND SHIELDDEX FOR WEED CONTROL IN FIELD CORN											
Trial ID: CN-09-21		Study Dir.: JAY TURNER									
Location: PONDER FARM		Investigator: Eric P. Prostko									
Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date ARM Action Codes # Subsamples, Dec.											
	----- Zeama Plant - Stunting Percent Mar-31-21	Rapra ----- Control Percent Apr-7-21	Agrass ----- Control Percent Apr-7-21	Amapa ----- Control Percent Apr-7-21	----- Zeama Injury Percent Apr-20-21	Rapra ----- Control Percent Apr-20-21					
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Grow Stg	Appl Code	1	2	3	4	5	6
1 NTC						1.3 a	0.0 c	0.0 d	0.0 c	0.0 c	0.0 c
2 RESTRAINT ATRAZINE SHIELDDEX ATRAZINE AGRIDEX	6.498 4 L 3.33 OD 4 L	EC L OD L	36.0 oz/a 32.0 oz/a 1.0 oz/a 32.0 oz/a 1.0 % v/v	PRE PRE POST POST POST	A A C C C	1.3 a	94.8 a	99.0 a	99.0 a	2.5 b	96.8 ab
3 RESTRAINT ATRAZINE RESTRAINT ATRAZINE AGRIDEX	6.498 4 L 6.498 EC 4 L	EC L EC L	18.0 oz/a 32.0 oz/a 18.0 oz/a 32.0 oz/a 1.0 % v/v	PRE PRE POST POST POST	A A C C C	1.3 a	94.8 a	95.8 bc	99.0 a	0.0 c	93.5 b
4 RESICORE ATRAZINE RESTRAINT ATRAZINE AGRIDEX	3.29 4 L 6.498 EC 4 L	EC L EC L	40.0 oz/a 32.0 oz/a 30.0 oz/a 32.0 oz/a 1.0 % v/v	PRE PRE POST POST POST	A A C C C	1.3 a	95.8 a	99.0 a	99.0 a	0.0 c	97.0 ab
5 RESICORE ATRAZINE RESICORE ATRAZINE AGRIDEX	3.29 4 L 3.29 EC 4 L	EC L EC L	40.0 oz/a 32.0 oz/a 40.0 oz/a 32.0 oz/a 1.0 % v/v	PRE PRE POST POST POST	A A C C C	1.3 a	98.0 a	99.0 a	99.0 a	2.5 b	98.0 ab
6 RESTRAINT ATRAZINE	6.498 4 L	EC L	36.0 oz/a 32.0 oz/a	PRE PRE	A A	1.3 a	95.8 a	99.0 a	99.0 a	0.0 c	94.3 ab
7 BICEP II MAGNUM	5.5 SC	SC	53.0 oz/a	PRE	A	0.0 a	95.8 a	99.0 a	99.0 a	0.0 c	98.0 ab
8 BICEP II MAGNUM SHIELDDEX ATRAZINE AGRIDEX AMSOL	5.5 SC 3.33 OD 4 L	SC OD L	53.0 oz/a 1.0 oz/a 32.0 oz/a 1.0 % v/v 2.0 % v/v	PRE POST POST POST POST	A C C C C	0.0 a	93.3 a	99.0 a	99.0 a	0.0 c	93.3 b
9 BICEP II MAGNUM IMPACT ATRAZINE AGRIDEX AMSOL	5.5 SC 2.8 SC 4 L	SC SC L	53.0 oz/a 0.75 oz/a 32.0 oz/a 1.0 % v/v 2.0 % v/v	PRE POST POST POST POST	A C C C C	0.0 a	84.8 b	94.5 c	98.0 b	0.0 c	94.5 ab
10 BICEP II MAGNUM LAUDIS ATRAZINE AGRIDEX AMSOL	5.5 SC 3.5 SC 4 L	SC SC L	53.0 oz/a 3.0 oz/a 32.0 oz/a 1.0 % v/v 2.0 % v/v	PRE POST POST POST POST	A C C C C	0.0 a	94.8 a	98.0 ab	99.0 a	0.0 c	95.8 ab
11 BICEP II MAGNUM SHIELDDEX ATRAZINE ROUNDUP POWERMAX AMSOL	5.5 SC 3.33 OD 4 L 5.5 SL	SC OD L SL	53.0 oz/a 1.0 oz/a 32.0 oz/a 32.0 oz/a 2.0 % v/v	PRE POST POST POST POST	A C C C C	0.0 a	95.8 a	99.0 a	99.0 a	0.0 c	96.8 ab

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.
 Missing data estimates are included in columns: Average=22,23
 Could not calculate LSD (% mean diff) for columns 7,9,11,13,17,18 because error mean square = 0.
 ^Calculated from residual.

University of Georgia

RESTRAINT AND SHIELDDEX FOR WEED CONTROL IN FIELD CORN						
Trial ID:	CN-09-21	Study Dir.:	JAY TURNER			
Location:	PONDER FARM	Investigator:	Eric P. Prostko			
Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date	----- Zeama Plant - Stunting Percent Mar-31-21	Rapra ----- Control Percent Apr-7-21	Agrass ----- Control Percent Apr-7-21	Amapa ----- Control Percent Apr-7-21	----- Zeama Injury Percent Apr-20-21	Rapra ----- Control Percent Apr-20-21
ARM Action Codes # Subsamples, Dec.	1	2	3	4	5	6
Trt Treatment No. Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code	
12 BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A	0.0 a
SHIELDDEX	3.33	OD	1.0 oz/a	POST	C	96.8 a
ATRAZINE	4	L	32.0 oz/a	POST	C	98.0 ab
LIBERTY	2.34	SL	32.0 oz/a	POST	C	99.0 a
AGRIDEX			1.0 % v/v	POST	C	0.0 c
AMSOL			2.0 % v/v	POST	C	98.0 ab
13 SHIELDDEX	3.33	OD	1.0 oz/a	EPOST	B	0.0 a
ATRAZINE	4	L	32.0 oz/a	EPOST	B	0.0 c
AGRIDEX			1.0 % v/v	EPOST	B	0.0 d
AMSOL			2.0 % v/v	EPOST	B	0.0 c
14 RESTRAINT	6.498	EC	30.0 oz/a	EPOST	B	0.0 a
ATRAZINE	4	L	32.0 oz/a	EPOST	B	0.0 c
AGRIDEX			1.0 % v/v	EPOST	B	0.0 d
LSD P=.10						1.73
Standard Deviation						1.45
CV						270.91
Grand Mean						0.54
Bartlett's X2^						12.882
P(Bartlett's X2)						0.457
						5.27
						4.42
						5.95
						74.29
						21.628
						0.061
						2.35
						1.98
						2.56
						77.09
						70.564
						0.00*
						0.00*
						0.64
						0.53
						0.69
						77.71
						82.515
						0.00*
						0.00*
						2.16
						1.82
						169.46
						1.07
						48.034
						0.00*
						5.37
						4.51
						5.04
						89.48
						25.216
						0.022*

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.
 Missing data estimates are included in columns: Average=22,23
 Could not calculate LSD (% mean diff) for columns 7,9,11,13,17,18 because error mean square = 0.
 ^Calculated from residual.

University of Georgia

RESTRAINT AND SHIELDDEX FOR WEED CONTROL IN FIELD CORN												
Trial ID:	CN-09-21	Study Dir.:	JAY TURNER									
Location:	PONDER FARM	Investigator:	Eric P. Prostko									
Weed Code	Amapa	Agrass	Zeama	Zeama	Zeama	Zeama						
Crop Code	-----	-----	-----	-----	-----	-----						
Part Rated			Leaf -									
Rating Data Type			Burn	Stunting	Chlorosis	Necrosis						
Rating Unit			Percent	Percent	Percent	Percent						
Rating Date	Apr-20-21	Apr-20-21	Apr-20-21	Apr-29-21	Apr-29-21	Apr-29-21						
ARM Action Codes												
# Subsamples, Dec.												
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	7	8	9	10	11	12
1	NTC						0.0 b	0.0 d	0.0 b	0.0 c	0.0 a	0.0 a
2	RESTRAINT	6.498	EC	36.0 oz/a	PRE	A	99.0 a	89.8 ab	0.0 b	6.3 bc	0.0 a	0.0 a
	ATRAZINE	4 L		32.0 oz/a	PRE	A						
	SHIELDDEX	3.33	OD	1.0 oz/a	POST	C						
	ATRAZINE	4 L		32.0 oz/a	POST	C						
	AGRIDEX			1.0 % v/v	POST	C						
3	RESTRAINT	6.498	EC	18.0 oz/a	PRE	A	99.0 a	74.8 c	0.0 b	6.3 bc	0.0 a	1.3 a
	ATRAZINE	4 L		32.0 oz/a	PRE	A						
	RESTRAINT	6.498	EC	18.0 oz/a	POST	C						
	ATRAZINE	4 L		32.0 oz/a	POST	C						
	AGRIDEX			1.0 % v/v	POST	C						
4	RESICORE	3.29	EC	40.0 oz/a	PRE	A	99.0 a	94.5 ab	0.0 b	7.5 b	0.0 a	1.3 a
	ATRAZINE	4 L		32.0 oz/a	PRE	A						
	RESTRAINT	6.498	EC	30.0 oz/a	POST	C						
	ATRAZINE	4 L		32.0 oz/a	POST	C						
	AGRIDEX			1.0 % v/v	POST	C						
5	RESICORE	3.29	EC	40.0 oz/a	PRE	A	99.0 a	99.0 a	0.0 b	5.0 bc	0.0 a	1.3 a
	ATRAZINE	4 L		32.0 oz/a	PRE	A						
	RESICORE	3.29	EC	40.0 oz/a	POST	C						
	ATRAZINE	4 L		32.0 oz/a	POST	C						
	AGRIDEX			1.0 % v/v	POST	C						
6	RESTRAINT	6.498	EC	36.0 oz/a	PRE	A	99.0 a	99.0 a	0.0 b	0.0 c	0.0 a	1.3 a
	ATRAZINE	4 L		32.0 oz/a	PRE	A						
7	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A	99.0 a	88.5 b	0.0 b	5.0 bc	0.0 a	1.3 a
8	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A	99.0 a	95.5 ab	0.0 b	1.3 bc	0.0 a	0.0 a
	SHIELDDEX	3.33	OD	1.0 oz/a	POST	C						
	ATRAZINE	4 L		32.0 oz/a	POST	C						
	AGRIDEX			1.0 % v/v	POST	C						
	AMSOL			2.0 % v/v	POST	C						
9	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A	99.0 a	87.0 b	0.0 b	6.3 bc	0.0 a	0.0 a
	IMPACT	2.8	SC	0.75 oz/a	POST	C						
	ATRAZINE	4 L		32.0 oz/a	POST	C						
	AGRIDEX			1.0 % v/v	POST	C						
	AMSOL			2.0 % v/v	POST	C						
10	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A	99.0 a	91.0 ab	0.0 b	7.5 b	0.0 a	0.0 a
	LAUDIS	3.5	SC	3.0 oz/a	POST	C						
	ATRAZINE	4 L		32.0 oz/a	POST	C						
	AGRIDEX			1.0 % v/v	POST	C						
	AMSOL			2.0 % v/v	POST	C						
11	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A	99.0 a	99.0 a	0.0 b	3.8 bc	0.0 a	0.0 a
	SHIELDDEX	3.33	OD	1.0 oz/a	POST	C						
	ATRAZINE	4 L		32.0 oz/a	POST	C						
	ROUNDUP POWERMAX	5.5	SL	32.0 oz/a	POST	C						
	AMSOL			2.0 % v/v	POST	C						

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.
 Missing data estimates are included in columns: Average=22,23
 Could not calculate LSD (% mean diff) for columns 7,9,11,13,17,18 because error mean square = 0.
 ^Calculated from residual.

University of Georgia

RESTRAINT AND SHIELDEX FOR WEED CONTROL IN FIELD CORN												
Trial ID: CN-09-21		Study Dir.: JAY TURNER										
Location: PONDER FARM		Investigator: Eric P. Prostko										
Weed Code	Amapa	Agrass	Zeama	Zeama	Zeama	Zeama						
Crop Code	-----	-----	-----	-----	-----	-----						
Part Rated			Leaf -									
Rating Data Type	Control	Control	Burn	Stunting	Chlorosis	Necrosis						
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent						
Rating Date	Apr-20-21	Apr-20-21	Apr-20-21	Apr-29-21	Apr-29-21	Apr-29-21						
ARM Action Codes												
# Subsamples, Dec.												
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code	7	8	9	10	11	12
12	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A	99.0 a	99.0 a	0.0 b	5.0 bc	0.0 a	0.0 a
	SHIELDEX	3.33	OD	1.0 oz/a	POST	C						
	ATRAZINE	4	L	32.0 oz/a	POST	C						
	LIBERTY	2.34	SL	32.0 oz/a	POST	C						
	AGRIDEX			1.0 % v/v	POST	C						
	AMSOL			2.0 % v/v	POST	C						
13	SHIELDEX	3.33	OD	1.0 oz/a	EPOST	B	99.0 a	94.5 ab	0.0 b	5.0 bc	0.0 a	0.0 a
	ATRAZINE	4	L	32.0 oz/a	EPOST	B						
	AGRIDEX			1.0 % v/v	EPOST	B						
	AMSOL			2.0 % v/v	EPOST	B						
14	RESTRAINT	6.498	EC	30.0 oz/a	EPOST	B	99.0 a	99.0 a	15.0 a	15.0 a	0.0 a	2.5 a
	ATRAZINE	4	L	32.0 oz/a	EPOST	B						
	AGRIDEX			1.0 % v/v	EPOST	B						
LSD P=.10							.	9.92	.	6.35	.	2.00
Standard Deviation							0.00	8.32	0.00	5.33	0.00	1.68
CV							0.0	9.63	0.0	101.12	0.0	269.04
Grand Mean							91.93	86.46	1.07	5.27	0.00	0.63
Bartlett's X2^							.	39.168	.	24.75	.	42.212
P(Bartlett's X2)							.	0.00*	.	0.025*	.	0.00*

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.
 Missing data estimates are included in columns: Average=22,23
 Could not calculate LSD (% mean diff) for columns 7,9,11,13,17,18 because error mean square = 0.
 ^Calculated from residual.

University of Georgia

RESTRAINT AND SHIELDDEX FOR WEED CONTROL IN FIELD CORN											
Trial ID: CN-09-21		Study Dir.: JAY TURNER									
Location: PONDER FARM		Investigator: Eric P. Prostko									
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	ARM Action Codes # Subsamples, Dec.	Amapa ----- Control Percent Apr-29-21	Rapra ----- Control Percent Apr-29-21	AGrass ----- Control Percent Apr-29-21	Zeama ----- Stunt Percent May-14-21	Zeama ----- Chlorosis Percent May-14-21
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	13	14	15	16	17
1	NTC						0.0 b	0.0 c	0.0 c	0.0 a	0.0 a
2	RESTRAINT	6.498	EC	36.0 oz/a	PRE	A	99.0 a	97.0 a	99.0 a	1.3 a	0.0 a
	ATRAZINE	4 L		32.0 oz/a	PRE	A					
	SHIELDDEX	3.33	OD	1.0 oz/a	POST	C					
	ATRAZINE	4 L		32.0 oz/a	POST	C					
	AGRIDEX			1.0 % v/v	POST	C					
3	RESTRAINT	6.498	EC	18.0 oz/a	PRE	A	99.0 a	98.0 a	97.0 ab	6.3 a	0.0 a
	ATRAZINE	4 L		32.0 oz/a	PRE	A					
	RESTRAINT	6.498	EC	18.0 oz/a	POST	C					
	ATRAZINE	4 L		32.0 oz/a	POST	C					
	AGRIDEX			1.0 % v/v	POST	C					
4	RESICORE	3.29	EC	40.0 oz/a	PRE	A	99.0 a	98.0 a	98.0 a	5.0 a	0.0 a
	ATRAZINE	4 L		32.0 oz/a	PRE	A					
	RESTRAINT	6.498	EC	30.0 oz/a	POST	C					
	ATRAZINE	4 L		32.0 oz/a	POST	C					
	AGRIDEX			1.0 % v/v	POST	C					
5	RESICORE	3.29	EC	40.0 oz/a	PRE	A	99.0 a	99.0 a	99.0 a	5.0 a	0.0 a
	ATRAZINE	4 L		32.0 oz/a	PRE	A					
	RESICORE	3.29	EC	40.0 oz/a	POST	C					
	ATRAZINE	4 L		32.0 oz/a	POST	C					
	AGRIDEX			1.0 % v/v	POST	C					
6	RESTRAINT	6.498	EC	36.0 oz/a	PRE	A	99.0 a	89.5 b	99.0 a	1.3 a	0.0 a
	ATRAZINE	4 L		32.0 oz/a	PRE	A					
7	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A	99.0 a	98.0 a	94.5 b	2.5 a	0.0 a
8	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A	99.0 a	98.0 a	99.0 a	0.0 a	0.0 a
	SHIELDDEX	3.33	OD	1.0 oz/a	POST	C					
	ATRAZINE	4 L		32.0 oz/a	POST	C					
	AGRIDEX			1.0 % v/v	POST	C					
	AMSOL			2.0 % v/v	POST	C					
9	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A	99.0 a	99.0 a	94.5 b	3.8 a	0.0 a
	IMPACT	2.8	SC	0.75 oz/a	POST	C					
	ATRAZINE	4 L		32.0 oz/a	POST	C					
	AGRIDEX			1.0 % v/v	POST	C					
	AMSOL			2.0 % v/v	POST	C					
10	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A	99.0 a	99.0 a	98.0 a	2.5 a	0.0 a
	LAUDIS	3.5	SC	3.0 oz/a	POST	C					
	ATRAZINE	4 L		32.0 oz/a	POST	C					
	AGRIDEX			1.0 % v/v	POST	C					
	AMSOL			2.0 % v/v	POST	C					
11	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A	99.0 a	98.0 a	99.0 a	0.0 a	0.0 a
	SHIELDDEX	3.33	OD	1.0 oz/a	POST	C					
	ATRAZINE	4 L		32.0 oz/a	POST	C					
	ROUNDUP POWERMAX	5.5	SL	32.0 oz/a	POST	C					
	AMSOL			2.0 % v/v	POST	C					

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.
 Missing data estimates are included in columns: Average=22,23
 Could not calculate LSD (% mean diff) for columns 7,9,11,13,17,18 because error mean square = 0.
 ^Calculated from residual.

University of Georgia

RESTRAINT AND SHIELDEX FOR WEED CONTROL IN FIELD CORN											
Trial ID: CN-09-21		Study Dir.: JAY TURNER									
Location: PONDER FARM		Investigator: Eric P. Prostko									
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Amapa ----- Control Percent Apr-29-21	Rapra ----- Control Percent Apr-29-21	AGrass ----- Control Percent Apr-29-21	Zeama ----- Stunt Percent May-14-21	Zeama ----- Chlorosis Percent May-14-21	
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code	13	14	15	16	17
12	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A	99.0 a	99.0 a	99.0 a	2.5 a	0.0 a
	SHIELDEX	3.33	OD	1.0 oz/a	POST	C					
	ATRAZINE	4	L	32.0 oz/a	POST	C					
	LIBERTY	2.34	SL	32.0 oz/a	POST	C					
	AGRIDEX			1.0 % v/v	POST	C					
	AMSOL			2.0 % v/v	POST	C					
13	SHIELDEX	3.33	OD	1.0 oz/a	EPOST	B	99.0 a	99.0 a	95.8 ab	3.8 a	0.0 a
	ATRAZINE	4	L	32.0 oz/a	EPOST	B					
	AGRIDEX			1.0 % v/v	EPOST	B					
	AMSOL			2.0 % v/v	EPOST	B					
14	RESTRAINT	6.498	EC	30.0 oz/a	EPOST	B	99.0 a	99.0 a	99.0 a	8.8 a	0.0 a
	ATRAZINE	4	L	32.0 oz/a	EPOST	B					
	AGRIDEX			1.0 % v/v	EPOST	B					
LSD P=.10							.	5.43	3.32	5.44	.
Standard Deviation							0.00	4.55	2.79	4.57	0.00
CV							0.0	5.02	3.07	150.52	0.0
Grand Mean							91.93	90.75	90.77	3.04	0.00
Bartlett's X2^							.	64.59	32.191	18.976	.
P(Bartlett's X2)							.	0.00*	0.002*	0.124	.

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.
 Missing data estimates are included in columns: Average=22,23
 Could not calculate LSD (% mean diff) for columns 7,9,11,13,17,18 because error mean square = 0.
 ^Calculated from residual.

University of Georgia

RESTRAINT AND SHIELDDEX FOR WEED CONTROL IN FIELD CORN												
Trial ID: CN-09-21		Study Dir.: JAY TURNER										
Location: PONDER FARM		Investigator: Eric P. Prostko										
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Zeama Necrosis Percent May-14-21	Amapa Control Percent May-14-21	Rapra Control Percent May-14-21	Agrass Control Percent May-14-21	----- ZEAMA PLOT - YIELD LBS/PLOT Sep-7-21		
ARM Action Codes # Subsamples, Dec.						18	19	20	21	22		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Grow Stg	Appl Code					
1	NTC							0.0 a	0.0 c	0.0 e	39.0 a	
2	RESTRAINT	6.498	EC	36.0	oz/a	PRE	A	0.0 a	99.0 a	88.5 a	82.5 cd	51.5 a
	ATRAZINE	4	L	32.0	oz/a	PRE	A					
	SHIELDDEX	3.33	OD	1.0	oz/a	POST	C					
	ATRAZINE	4	L	32.0	oz/a	POST	C					
	AGRIDEX			1.0	% v/v	POST	C					
3	RESTRAINT	6.498	EC	18.0	oz/a	PRE	A	0.0 a	99.0 a	88.8 a	87.3 bc	50.0 a
	ATRAZINE	4	L	32.0	oz/a	PRE	A					
	RESTRAINT	6.498	EC	18.0	oz/a	POST	C					
	ATRAZINE	4	L	32.0	oz/a	POST	C					
	AGRIDEX			1.0	% v/v	POST	C					
4	RESICORE	3.29	EC	40.0	oz/a	PRE	A	0.0 a	99.0 a	94.5 a	92.3 abc	46.8 a
	ATRAZINE	4	L	32.0	oz/a	PRE	A					
	RESTRAINT	6.498	EC	30.0	oz/a	POST	C					
	ATRAZINE	4	L	32.0	oz/a	POST	C					
	AGRIDEX			1.0	% v/v	POST	C					
5	RESICORE	3.29	EC	40.0	oz/a	PRE	A	0.0 a	98.0 ab	96.0 a	95.5 ab	51.0 a
	ATRAZINE	4	L	32.0	oz/a	PRE	A					
	RESICORE	3.29	EC	40.0	oz/a	POST	C					
	ATRAZINE	4	L	32.0	oz/a	POST	C					
	AGRIDEX			1.0	% v/v	POST	C					
6	RESTRAINT	6.498	EC	36.0	oz/a	PRE	A	0.0 a	93.0 b	77.0 b	87.3 bc	45.8 a
	ATRAZINE	4	L	32.0	oz/a	PRE	A					
7	BICEP II MAGNUM	5.5	SC	53.0	oz/a	PRE	A	0.0 a	98.0 ab	91.3 a	88.8 abc	53.5 a
8	BICEP II MAGNUM	5.5	SC	53.0	oz/a	PRE	A	0.0 a	97.0 ab	94.8 a	96.0 ab	50.0 a
	SHIELDDEX	3.33	OD	1.0	oz/a	POST	C					
	ATRAZINE	4	L	32.0	oz/a	POST	C					
	AGRIDEX			1.0	% v/v	POST	C					
	AMSOL			2.0	% v/v	POST	C					
9	BICEP II MAGNUM	5.5	SC	53.0	oz/a	PRE	A	0.0 a	97.0 ab	88.8 a	90.8 abc	51.5 a
	IMPACT	2.8	SC	0.75	oz/a	POST	C					
	ATRAZINE	4	L	32.0	oz/a	POST	C					
	AGRIDEX			1.0	% v/v	POST	C					
	AMSOL			2.0	% v/v	POST	C					
10	BICEP II MAGNUM	5.5	SC	53.0	oz/a	PRE	A	0.0 a	98.0 ab	93.8 a	97.0 ab	40.0 a
	LAUDIS	3.5	SC	3.0	oz/a	POST	C					
	ATRAZINE	4	L	32.0	oz/a	POST	C					
	AGRIDEX			1.0	% v/v	POST	C					
	AMSOL			2.0	% v/v	POST	C					
11	BICEP II MAGNUM	5.5	SC	53.0	oz/a	PRE	A	0.0 a	99.0 a	92.3 a	96.0 ab	50.3 a
	SHIELDDEX	3.33	OD	1.0	oz/a	POST	C					
	ATRAZINE	4	L	32.0	oz/a	POST	C					
	ROUNDUP POWERMAX	5.5	SL	32.0	oz/a	POST	C					
	AMSOL			2.0	% v/v	POST	C					

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.
 Missing data estimates are included in columns: Average=22,23
 Could not calculate LSD (% mean diff) for columns 7,9,11,13,17,18 because error mean square = 0.
 ^Calculated from residual.

University of Georgia

RESTRAINT AND SHIELDEX FOR WEED CONTROL IN FIELD CORN						
Trial ID:	CN-09-21	Study Dir.:	JAY TURNER			
Location:	PONDER FARM	Investigator:	Eric P. Prostko			
Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date ARM Action Codes # Subsamples, Dec.						
	Zeama	Amapa	Rapra	Agrass	-----	ZEAMA PLOT - YIELD LBS/PLOT Sep-7-21
	Necrosis Percent May-14-21	Control Percent May-14-21	Control Percent May-14-21	Control Percent May-14-21		
	18	19	20	21	22	
12 BICEP II MAGNUM	5.5 SC	53.0 oz/a	PRE	A		
SHIELDEX	3.33 OD	1.0 oz/a	POST	C		
ATRAZINE	4 L	32.0 oz/a	POST	C		
LIBERTY	2.34 SL	32.0 oz/a	POST	C		
AGRIDEX		1.0 % v/v	POST	C		
AMSOL		2.0 % v/v	POST	C		
13 SHIELDEX	3.33 OD	1.0 oz/a	EPOST	B		
ATRAZINE	4 L	32.0 oz/a	EPOST	B		
AGRIDEX		1.0 % v/v	EPOST	B		
AMSOL		2.0 % v/v	EPOST	B		
14 RESTRAINT	6.498 EC	30.0 oz/a	EPOST	B		
ATRAZINE	4 L	32.0 oz/a	EPOST	B		
AGRIDEX		1.0 % v/v	EPOST	B		
LSD P=.10		.	5.65	9.56	10.81	10.73
Standard Deviation		0.00	4.75	8.03	9.08	9.00
CV		0.0	5.24	9.37	10.74	18.8
Grand Mean		0.00	90.57	85.61	84.48	47.86
Bartlett's X2^		.	64.711	53.135	27.405	27.104
P(Bartlett's X2)		.	0.00*	0.00*	0.011*	0.012*

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.
 Missing data estimates are included in columns: Average=22,23
 Could not calculate LSD (% mean diff) for columns 7,9,11,13,17,18 because error mean square = 0.
 ^Calculated from residual.

University of Georgia

RESTRAINT AND SHIELDDEX FOR WEED CONTROL IN FIELD CORN					
Trial ID:	CN-09-21	Study Dir.:	JAY TURNER		
Location:	PONDER FARM	Investigator:	Eric P. Prostko		

Weed Code						-----
Crop Code						ZEAMA
Part Rated						PLOT -
Rating Data Type						YIELD
Rating Unit						BU/A
Rating Date						Sep-7-21
ARM Action Codes						TY1
# Subsamples, Dec.						- 1
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code
						23
1	NTC					197.9 a
2	RESTRAINT	6.498	EC	36.0 oz/a	PRE	A
	ATRAZINE	4 L		32.0 oz/a	PRE	A
	SHIELDDEX	3.33	OD	1.0 oz/a	POST	C
	ATRAZINE	4 L		32.0 oz/a	POST	C
	AGRIDEX			1.0 % v/v	POST	C
3	RESTRAINT	6.498	EC	18.0 oz/a	PRE	A
	ATRAZINE	4 L		32.0 oz/a	PRE	A
	RESTRAINT	6.498	EC	18.0 oz/a	POST	C
	ATRAZINE	4 L		32.0 oz/a	POST	C
	AGRIDEX			1.0 % v/v	POST	C
4	RESICORE	3.29	EC	40.0 oz/a	PRE	A
	ATRAZINE	4 L		32.0 oz/a	PRE	A
	RESTRAINT	6.498	EC	30.0 oz/a	POST	C
	ATRAZINE	4 L		32.0 oz/a	POST	C
	AGRIDEX			1.0 % v/v	POST	C
5	RESICORE	3.29	EC	40.0 oz/a	PRE	A
	ATRAZINE	4 L		32.0 oz/a	PRE	A
	RESICORE	3.29	EC	40.0 oz/a	POST	C
	ATRAZINE	4 L		32.0 oz/a	POST	C
	AGRIDEX			1.0 % v/v	POST	C
6	RESTRAINT	6.498	EC	36.0 oz/a	PRE	A
	ATRAZINE	4 L		32.0 oz/a	PRE	A
7	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A
8	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A
	SHIELDDEX	3.33	OD	1.0 oz/a	POST	C
	ATRAZINE	4 L		32.0 oz/a	POST	C
	AGRIDEX			1.0 % v/v	POST	C
	AMSOL			2.0 % v/v	POST	C
9	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A
	IMPACT	2.8	SC	0.75 oz/a	POST	C
	ATRAZINE	4 L		32.0 oz/a	POST	C
	AGRIDEX			1.0 % v/v	POST	C
	AMSOL			2.0 % v/v	POST	C
10	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A
	LAUDIS	3.5	SC	3.0 oz/a	POST	C
	ATRAZINE	4 L		32.0 oz/a	POST	C
	AGRIDEX			1.0 % v/v	POST	C
	AMSOL			2.0 % v/v	POST	C
11	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A
	SHIELDDEX	3.33	OD	1.0 oz/a	POST	C
	ATRAZINE	4 L		32.0 oz/a	POST	C
	ROUNDUP POWERMAX	5.5	SL	32.0 oz/a	POST	C
	AMSOL			2.0 % v/v	POST	C

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.
 Missing data estimates are included in columns: Average=22,23
 Could not calculate LSD (% mean diff) for columns 7,9,11,13,17,18 because error mean square = 0.
 ^Calculated from residual.

University of Georgia

RESTRAINT AND SHIELDDEX FOR WEED CONTROL IN FIELD CORN						
Trial ID:	CN-09-21	Study Dir.:	JAY TURNER			
Location:	PONDER FARM	Investigator:	Eric P. Prostko			
Weed Code						-----
Crop Code						ZEAMA
Part Rated						PLOT -
Rating Data Type						YIELD
Rating Unit						BU/A
Rating Date						Sep-7-21
ARM Action Codes						TY1
# Subsamples, Dec.						- 1
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code
12	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A
	SHIELDDEX	3.33	OD	1.0 oz/a	POST	C
	ATRAZINE	4	L	32.0 oz/a	POST	C
	LIBERTY	2.34	SL	32.0 oz/a	POST	C
	AGRIDEX			1.0 % v/v	POST	C
	AMSOL			2.0 % v/v	POST	C
13	SHIELDDEX	3.33	OD	1.0 oz/a	EPOST	B
	ATRAZINE	4	L	32.0 oz/a	EPOST	B
	AGRIDEX			1.0 % v/v	EPOST	B
	AMSOL			2.0 % v/v	EPOST	B
14	RESTRAINT	6.498	EC	30.0 oz/a	EPOST	B
	ATRAZINE	4	L	32.0 oz/a	EPOST	B
	AGRIDEX			1.0 % v/v	EPOST	B
LSD P=.10						54.43
Standard Deviation						45.65
CV						18.8
Grand Mean						242.83
Bartlett's X2^						27.104
P(Bartlett's X2)						0.012*

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.
 Missing data estimates are included in columns: Average=22,23
 Could not calculate LSD (% mean diff) for columns 7,9,11,13,17,18 because error mean square = 0.
 ^Calculated from residual.

University of Georgia

RESTRAINT AND SHIELDDEX FOR WEED CONTROL IN FIELD CORN						
Trial ID:	CN-09-21	Study Dir.:	JAY TURNER			
Location:	PONDER FARM	Investigator:	Eric P. Prostko			
Randomized Complete Block (RCB) AOV For ----- Zeama Plant Stunting Percent Mar-31-21 (Data Column 1)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	55	133.928571				
Replicate	3	30.357143	10.119048	4.804	0.0061	
Treatment	13	21.428571	1.648352	0.783	0.6730	
Error	39	82.142857	2.106227			
Randomized Complete Block (RCB) AOV For Rapra ----- Control Percent Apr-7-21 (Data Column 2)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	55	85741.428571				
Replicate	3	217.000000	72.333333	3.700	0.0195	
Treatment	13	84761.928571	6520.148352	333.490	0.0001	
Error	39	762.500000	19.551282			
Randomized Complete Block (RCB) AOV For Agrass ----- Control Percent Apr-7-21 (Data Column 3)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	55	91018.553571				
Replicate	3	7.482143	2.494048	0.639	0.5946	
Treatment	13	90858.803571	6989.138736	1790.111	0.0001	
Error	39	152.267857	3.904304			
Randomized Complete Block (RCB) AOV For Amapa ----- Control Percent Apr-7-21 (Data Column 4)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	55	92255.428571				
Replicate	3	0.857143	0.285714	1.000	0.4031	
Treatment	13	92243.428571	7095.648352	24834.772	0.0001	
Error	39	11.142857	0.285714			
Randomized Complete Block (RCB) AOV For ----- Zeama Injury Percent Apr-20-21 (Data Column 5)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	55	535.714286				
Replicate	3	21.428571	7.142857	2.167	0.1074	
Treatment	13	385.714286	29.670330	9.000	0.0001	
Error	39	128.571429	3.296703			
Randomized Complete Block (RCB) AOV For Rapra ----- Control Percent Apr-20-21 (Data Column 6)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	55	35563.982143				
Replicate	3	100.339286	33.446429	1.644	0.1949	
Treatment	13	34670.232143	2666.940934	131.093	0.0001	
Error	39	793.410714	20.343864			
Randomized Complete Block (RCB) AOV For Amapa ----- Control Percent Apr-20-21 (Data Column 7)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	55	36403.714286				
Replicate	3	0.000000	0.000000	0.000	1.0000	
Treatment	13	36403.714286	2800.285714	0.000	1.0000	
Error	39	0.000000	0.000000			
Randomized Complete Block (RCB) AOV For Agrass ----- Control Percent Apr-20-21 (Data Column 8)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	55	37547.928571				
Replicate	3	263.500000	87.833333	1.268	0.2988	
Treatment	13	34582.428571	2660.186813	38.396	0.0001	
Error	39	2702.000000	69.282051			
Randomized Complete Block (RCB) AOV For ----- Zeama Leaf Burn Percent Apr-20-21 (Data Column 9)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	55	835.714286				
Replicate	3	0.000000	0.000000	0.000	1.0000	
Treatment	13	835.714286	64.285714	0.000	1.0000	
Error	39	0.000000	0.000000			
Randomized Complete Block (RCB) AOV For ----- Zeama Stunting Percent Apr-29-21 (Data Column 10)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	55	1870.982143				
Replicate	3	37.053571	12.351190	0.435	0.7290	
Treatment	13	727.232143	55.940934	1.971	0.0512	
Error	39	1106.696429	28.376832			

University of Georgia

RESTRAINT AND SHIELDX FOR WEED CONTROL IN FIELD CORN						
Trial ID:	CN-09-21	Study Dir.:	JAY TURNER			
Location:	PONDER FARM	Investigator:	Eric P. Prostko			
Randomized Complete Block (RCB) AOV For ----- Zeama Chlorosis Percent Apr-29-21 (Data Column 11)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	55	0.000000000000				
Replicate	3	0.000000000000	0.000000000000	0.000	1.0000	
Treatment	13	0.000000000000	0.000000000000	0.000	1.0000	
Error	39	0.000000000000	0.000000000000			
Randomized Complete Block (RCB) AOV For ----- Zeama Necrosis Percent Apr-29-21 (Data Column 12)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	55	153.125000				
Replicate	3	8.482143	2.827381	1.000	0.4031	
Treatment	13	34.375000	2.644231	0.935	0.5277	
Error	39	110.267857	2.827381			
Randomized Complete Block (RCB) AOV For Amapa ----- Control Percent Apr-29-21 (Data Column 13)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	55	36403.714286				
Replicate	3	0.000000	0.000000	0.000	1.0000	
Treatment	13	36403.714286	2800.285714	0.000	1.0000	
Error	39	0.000000	0.000000			
Randomized Complete Block (RCB) AOV For Rapra ----- Control Percent Apr-29-21 (Data Column 14)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	55	36676.500000				
Replicate	3	77.928571	25.976190	1.252	0.3041	
Treatment	13	35789.500000	2753.038462	132.706	0.0001	
Error	39	809.071429	20.745421			
Randomized Complete Block (RCB) AOV For AGrass ----- Control Percent Apr-29-21 (Data Column 15)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	55	35993.982143				
Replicate	3	53.196429	17.732143	2.278	0.0947	
Treatment	13	35637.232143	2741.325549	352.200	0.0001	
Error	39	303.553571	7.783425			
Randomized Complete Block (RCB) AOV For Zeama Stunt Percent May-14-21 (Data Column 16)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	55	1233.928571				
Replicate	3	73.214286	24.404762	1.169	0.3340	
Treatment	13	346.428571	26.648352	1.276	0.2679	
Error	39	814.285714	20.879121			
Randomized Complete Block (RCB) AOV For Zeama Chlorosis Percent May-14-21 (Data Column 17)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	55	0.000000000000				
Replicate	3	0.000000000000	0.000000000000	0.000	1.0000	
Treatment	13	0.000000000000	0.000000000000	0.000	1.0000	
Error	39	0.000000000000	0.000000000000			
Randomized Complete Block (RCB) AOV For Zeama Necrosis Percent May-14-21 (Data Column 18)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	55	0.000000000000				
Replicate	3	0.000000000000	0.000000000000	0.000	1.0000	
Treatment	13	0.000000000000	0.000000000000	0.000	1.0000	
Error	39	0.000000000000	0.000000000000			
Randomized Complete Block (RCB) AOV For Amapa Control Percent May-14-21 (Data Column 19)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	55	36489.714286				
Replicate	3	53.428571	17.809524	0.791	0.5065	
Treatment	13	35557.714286	2735.208791	121.417	0.0001	
Error	39	878.571429	22.527473			
Randomized Complete Block (RCB) AOV For Rapra Control Percent May-14-21 (Data Column 20)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	
Total	55	35815.357143				
Replicate	3	180.642857	60.214286	0.935	0.4330	
Treatment	13	33122.857143	2547.912088	39.560	0.0001	
Error	39	2511.857143	64.406593			

University of Georgia

RESTRAINT AND SHIELDEX FOR WEED CONTROL IN FIELD CORN			
Trial ID:	CN-09-21	Study Dir.:	JAY TURNER
Location:	PONDER FARM	Investigator:	Eric P. Prostko

Randomized Complete Block (RCB) AOV For Agrass Control Percent May-14-21 (Data Column 21)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	55	37433.982143			
Replicate	3	801.196429	267.065476	3.241	0.0322
Treatment	13	33419.232143	2570.710165	31.198	0.0001
Error	39	3213.553571	82.398810		

Randomized Complete Block (RCB) AOV For ----- ZEAMA PLOT YIELD LBS/PLOT Sep-7-21 (Data Column 22)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	54	4356.857143			
Replicate	3	275.571429	91.857143	1.135	0.3474
Treatment	13	1004.857143	77.296703	0.955	0.5102
Error	38	3076.428571	80.958647		

Randomized Complete Block (RCB) AOV For ----- ZEAMA PLOT YIELD BU/A Sep-7-21 TY1 1 (Data Column 23)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	54	112170.332819			
Replicate	3	7094.779068	2364.926356	1.135	0.3474
Treatment	13	25870.749592	1990.057661	0.955	0.5102
Error	38	79204.804160	2084.336952		

<u>Part Rated</u>					
Plant = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)					
Leaf = LEAF / FOLIAGE					
<u>ARM Action Codes</u>					
TY1 = 5.07402198*[22]					

University of Georgia

RESTRAINT AND SHIELDDEX FOR WEED CONTROL IN FIELD CORN				
Trial ID:	CN-09-21	Study Dir.:	JAY TURNER	
Location:	PONDER FARM	Investigator:	Eric P. Prostko	

Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	ARM Action Codes	# Subsamples, Dec.	----- Zeama Plant - Stunting Percent Mar-31-21	Rapra ----- Control Percent Apr-7-21	Agrass ----- Control Percent Apr-7-21	Amapa ----- Control Percent Apr-7-21	----- Zeama Injury Percent Apr-20-21
Trt	Treatment	Form	Form	Rate	Grow	Appl		1	2	3	4	5
No.	Name	Conc	Type	Rate	Stg	Code	Plot					
1	NTC						101	0.0	0.0	0.0	0.0	0.0
							211	5.0	0.0	0.0	0.0	0.0
							305	0.0	0.0	0.0	0.0	0.0
							402	0.0	0.0	0.0	0.0	0.0
							Mean =	1.3	0.0	0.0	0.0	0.0
2	RESTRAINT	6.498	EC	36.0 oz/a	PRE	A	102	5.0	90.0	99.0	99.0	10.0
	ATRAZINE	4 L		32.0 oz/a	PRE	A	209	0.0	95.0	99.0	99.0	0.0
	SHIELDDEX	3.33	OD	1.0 oz/a	POST	C	308	0.0	95.0	99.0	99.0	0.0
	ATRAZINE	4 L		32.0 oz/a	POST	C	403	0.0	99.0	99.0	99.0	0.0
	AGRIDEX			1.0 % v/v	POST	C						
							Mean =	1.3	94.8	99.0	99.0	2.5
3	RESTRAINT	6.498	EC	18.0 oz/a	PRE	A	103	5.0	90.0	99.0	99.0	0.0
	ATRAZINE	4 L		32.0 oz/a	PRE	A	208	0.0	99.0	99.0	99.0	0.0
	RESTRAINT	6.498	EC	18.0 oz/a	POST	C	302	0.0	95.0	95.0	99.0	0.0
	ATRAZINE	4 L		32.0 oz/a	POST	C	410	0.0	95.0	90.0	99.0	0.0
	AGRIDEX			1.0 % v/v	POST	C						
							Mean =	1.3	94.8	95.8	99.0	0.0
4	RESICORE	3.29	EC	40.0 oz/a	PRE	A	104	5.0	90.0	99.0	99.0	0.0
	ATRAZINE	4 L		32.0 oz/a	PRE	A	205	0.0	99.0	99.0	99.0	0.0
	RESTRAINT	6.498	EC	30.0 oz/a	POST	C	314	0.0	95.0	99.0	99.0	0.0
	ATRAZINE	4 L		32.0 oz/a	POST	C	411	0.0	99.0	99.0	99.0	0.0
	AGRIDEX			1.0 % v/v	POST	C						
							Mean =	1.3	95.8	99.0	99.0	0.0
5	RESICORE	3.29	EC	40.0 oz/a	PRE	A	105	5.0	99.0	99.0	99.0	10.0
	ATRAZINE	4 L		32.0 oz/a	PRE	A	203	0.0	99.0	99.0	99.0	0.0
	RESICORE	3.29	EC	40.0 oz/a	POST	C	309	0.0	99.0	99.0	99.0	0.0
	ATRAZINE	4 L		32.0 oz/a	POST	C	413	0.0	95.0	99.0	99.0	0.0
	AGRIDEX			1.0 % v/v	POST	C						
							Mean =	1.3	98.0	99.0	99.0	2.5
6	RESTRAINT	6.498	EC	36.0 oz/a	PRE	A	106	5.0	99.0	99.0	99.0	0.0
	ATRAZINE	4 L		32.0 oz/a	PRE	A	214	0.0	90.0	99.0	99.0	0.0
							310	0.0	95.0	99.0	99.0	0.0
							406	0.0	99.0	99.0	99.0	0.0
							Mean =	1.3	95.8	99.0	99.0	0.0
7	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A	107	0.0	90.0	99.0	99.0	0.0
							202	0.0	95.0	99.0	99.0	0.0
							307	0.0	99.0	99.0	99.0	0.0
							412	0.0	99.0	99.0	99.0	0.0
							Mean =	0.0	95.8	99.0	99.0	0.0
8	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A	108	0.0	90.0	99.0	99.0	0.0
	SHIELDDEX	3.33	OD	1.0 oz/a	POST	C	213	0.0	85.0	99.0	99.0	0.0
	ATRAZINE	4 L		32.0 oz/a	POST	C	312	0.0	99.0	99.0	99.0	0.0
	AGRIDEX			1.0 % v/v	POST	C	404	0.0	99.0	99.0	99.0	0.0
	AMSOL			2.0 % v/v	POST	C						
							Mean =	0.0	93.3	99.0	99.0	0.0
9	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A	109	0.0	75.0	99.0	99.0	0.0
	IMPACT	2.8	SC	0.75 oz/a	POST	C	201	0.0	90.0	90.0	99.0	0.0
	ATRAZINE	4 L		32.0 oz/a	POST	C	304	0.0	99.0	99.0	99.0	0.0
	AGRIDEX			1.0 % v/v	POST	C	409	0.0	75.0	90.0	95.0	0.0
	AMSOL			2.0 % v/v	POST	C						
							Mean =	0.0	84.8	94.5	98.0	0.0

University of Georgia

RESTRAINT AND SHIELDDEX FOR WEED CONTROL IN FIELD CORN				
Trial ID:	CN-09-21	Study Dir.:	JAY TURNER	
Location:	PONDER FARM	Investigator:	Eric P. Prostko	

Weed Code						----- Zeama Plant - Stunting Percent Mar-31-21	Rapra ----- Control Percent Apr-7-21	Agrass ----- Control Percent Apr-7-21	Amapa ----- Control Percent Apr-7-21	----- Zeama Injury Percent Apr-20-21		
Crop Code												
Part Rated												
Rating Data Type												
Rating Unit												
Rating Date												
ARM Action Codes												
# Subsamples, Dec.												
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	Plot	1	2	3	4	5
10	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A	110	0.0	90.0	95.0	99.0	0.0
	LAUDIS	3.5	SC	3.0 oz/a	POST	C	212	0.0	95.0	99.0	99.0	0.0
	ATRAZINE	4	L	32.0 oz/a	POST	C	306	0.0	99.0	99.0	99.0	0.0
	AGRIDEX			1.0 % v/v	POST	C	401	0.0	95.0	99.0	99.0	0.0
	AMSOL			2.0 % v/v	POST	C						
							Mean =	0.0	94.8	98.0	99.0	0.0
11	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A	111	0.0	95.0	99.0	99.0	0.0
	SHIELDDEX	3.33	OD	1.0 oz/a	POST	C	207	0.0	90.0	99.0	99.0	0.0
	ATRAZINE	4	L	32.0 oz/a	POST	C	313	0.0	99.0	99.0	99.0	0.0
	ROUNDUP POWERMAX	5.5	SL	32.0 oz/a	POST	C	408	0.0	99.0	99.0	99.0	0.0
	AMSOL			2.0 % v/v	POST	C						
							Mean =	0.0	95.8	99.0	99.0	0.0
12	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A	112	0.0	90.0	95.0	99.0	0.0
	SHIELDDEX	3.33	OD	1.0 oz/a	POST	C	204	0.0	99.0	99.0	99.0	0.0
	ATRAZINE	4	L	32.0 oz/a	POST	C	303	0.0	99.0	99.0	99.0	0.0
	LIBERTY	2.34	SL	32.0 oz/a	POST	C	405	0.0	99.0	99.0	99.0	0.0
	AGRIDEX			1.0 % v/v	POST	C						
	AMSOL			2.0 % v/v	POST	C						
							Mean =	0.0	96.8	98.0	99.0	0.0
13	SHIELDDEX	3.33	OD	1.0 oz/a	EPOST	B	113	0.0	0.0	0.0	0.0	0.0
	ATRAZINE	4	L	32.0 oz/a	EPOST	B	210	0.0	0.0	0.0	0.0	0.0
	AGRIDEX			1.0 % v/v	EPOST	B	301	0.0	0.0	0.0	0.0	0.0
	AMSOL			2.0 % v/v	EPOST	B	414	0.0	0.0	0.0	0.0	0.0
							Mean =	0.0	0.0	0.0	0.0	0.0
14	RESTRAINT	6.498	EC	30.0 oz/a	EPOST	B	114	0.0	0.0	0.0	0.0	10.0
	ATRAZINE	4	L	32.0 oz/a	EPOST	B	206	0.0	0.0	0.0	0.0	10.0
	AGRIDEX			1.0 % v/v	EPOST	B	311	0.0	0.0	0.0	0.0	10.0
							407	0.0	0.0	0.0	0.0	10.0
							Mean =	0.0	0.0	0.0	0.0	10.0

University of Georgia

RESTRAINT AND SHIELDEX FOR WEED CONTROL IN FIELD CORN			
Trial ID:	CN-09-21	Study Dir.:	JAY TURNER
Location:	PONDER FARM	Investigator:	Eric P. Prostko

Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date ARM Action Codes # Subsamples, Dec.							Rapra ----- Control Percent Apr-20-21	Amapa ----- Control Percent Apr-20-21	Agrass ----- Control Percent Apr-20-21	----- Zeama Leaf - Burn Percent Apr-20-21	----- Zeama Stunting Percent Apr-29-21
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	Plot	6	7	8	9	10
10 BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A	110	95.0	99.0	95.0	0.0	10.0
LAUDIS	3.5	SC	3.0 oz/a	POST	C	212	99.0	99.0	99.0	0.0	5.0
ATRAZINE	4	L	32.0 oz/a	POST	C	306	90.0	99.0	85.0	0.0	0.0
AGRIDEX			1.0 % v/v	POST	C	401	99.0	99.0	85.0	0.0	15.0
AMSOL			2.0 % v/v	POST	C						
Mean =							95.8	99.0	91.0	0.0	7.5
11 BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A	111	99.0	99.0	99.0	0.0	10.0
SHIELDEX	3.33	OD	1.0 oz/a	POST	C	207	99.0	99.0	99.0	0.0	0.0
ATRAZINE	4	L	32.0 oz/a	POST	C	313	90.0	99.0	99.0	0.0	0.0
ROUNDUP POWERMAX	5.5	SL	32.0 oz/a	POST	C	408	99.0	99.0	99.0	0.0	5.0
AMSOL			2.0 % v/v	POST	C						
Mean =							96.8	99.0	99.0	0.0	3.8
12 BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A	112	95.0	99.0	99.0	0.0	10.0
SHIELDEX	3.33	OD	1.0 oz/a	POST	C	204	99.0	99.0	99.0	0.0	0.0
ATRAZINE	4	L	32.0 oz/a	POST	C	303	99.0	99.0	99.0	0.0	0.0
LIBERTY	2.34	SL	32.0 oz/a	POST	C	405	99.0	99.0	99.0	0.0	10.0
AGRIDEX			1.0 % v/v	POST	C						
AMSOL			2.0 % v/v	POST	C						
Mean =							98.0	99.0	99.0	0.0	5.0
13 SHIELDEX	3.33	OD	1.0 oz/a	EPOST	B	113	99.0	99.0	99.0	0.0	0.0
ATRAZINE	4	L	32.0 oz/a	EPOST	B	210	99.0	99.0	90.0	0.0	5.0
AGRIDEX			1.0 % v/v	EPOST	B	301	99.0	99.0	99.0	0.0	15.0
AMSOL			2.0 % v/v	EPOST	B	414	95.0	99.0	90.0	0.0	0.0
Mean =							98.0	99.0	94.5	0.0	5.0
14 RESTRAINT	6.498	EC	30.0 oz/a	EPOST	B	114	99.0	99.0	99.0	15.0	15.0
ATRAZINE	4	L	32.0 oz/a	EPOST	B	206	99.0	99.0	99.0	15.0	15.0
AGRIDEX			1.0 % v/v	EPOST	B	311	99.0	99.0	99.0	15.0	15.0
						407	99.0	99.0	99.0	15.0	15.0
Mean =							99.0	99.0	99.0	15.0	15.0

University of Georgia

RESTRAINT AND SHIELDDEX FOR WEED CONTROL IN FIELD CORN					
Trial ID:	CN-09-21	Study Dir.:	JAY TURNER		
Location:	PONDER FARM	Investigator:	Eric P. Prostko		

						----- Zeama	----- Zeama	Amapa -----	Rapra -----	AGrass -----		
						Chlorosis Percent Apr-29-21	Necrosis Percent Apr-29-21	Control Percent Apr-29-21	Control Percent Apr-29-21	Control Percent Apr-29-21		
Trt	Treatment	Form	Form	Rate	Grow	Appl						
No.	Name	Conc	Type	Rate	Stg	Code	Plot	11	12	13	14	15
1	NTC						101	0.0	0.0	0.0	0.0	0.0
							211	0.0	0.0	0.0	0.0	0.0
							305	0.0	0.0	0.0	0.0	0.0
							402	0.0	0.0	0.0	0.0	0.0
							Mean =	0.0	0.0	0.0	0.0	0.0
2	RESTRAINT	6.498	EC	36.0 oz/a	PRE	A	102	0.0	0.0	99.0	95.0	99.0
	ATRAZINE	4	L	32.0 oz/a	PRE	A	209	0.0	0.0	99.0	95.0	99.0
	SHIELDDEX	3.33	OD	1.0 oz/a	POST	C	308	0.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0 oz/a	POST	C	403	0.0	0.0	99.0	99.0	99.0
	AGRIDEX			1.0 % v/v	POST	C						
							Mean =	0.0	0.0	99.0	97.0	99.0
3	RESTRAINT	6.498	EC	18.0 oz/a	PRE	A	103	0.0	0.0	99.0	95.0	95.0
	ATRAZINE	4	L	32.0 oz/a	PRE	A	208	0.0	0.0	99.0	99.0	99.0
	RESTRAINT	6.498	EC	18.0 oz/a	POST	C	302	0.0	5.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0 oz/a	POST	C	410	0.0	0.0	99.0	99.0	95.0
	AGRIDEX			1.0 % v/v	POST	C						
							Mean =	0.0	1.3	99.0	98.0	97.0
4	RESICORE	3.29	EC	40.0 oz/a	PRE	A	104	0.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0 oz/a	PRE	A	205	0.0	5.0	99.0	95.0	95.0
	RESTRAINT	6.498	EC	30.0 oz/a	POST	C	314	0.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0 oz/a	POST	C	411	0.0	0.0	99.0	99.0	99.0
	AGRIDEX			1.0 % v/v	POST	C						
							Mean =	0.0	1.3	99.0	98.0	98.0
5	RESICORE	3.29	EC	40.0 oz/a	PRE	A	105	0.0	5.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0 oz/a	PRE	A	203	0.0	0.0	99.0	99.0	99.0
	RESICORE	3.29	EC	40.0 oz/a	POST	C	309	0.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0 oz/a	POST	C	413	0.0	0.0	99.0	99.0	99.0
	AGRIDEX			1.0 % v/v	POST	C						
							Mean =	0.0	1.3	99.0	99.0	99.0
6	RESTRAINT	6.498	EC	36.0 oz/a	PRE	A	106	0.0	0.0	99.0	95.0	99.0
	ATRAZINE	4	L	32.0 oz/a	PRE	A	214	0.0	5.0	99.0	65.0	99.0
							310	0.0	0.0	99.0	99.0	99.0
							406	0.0	0.0	99.0	99.0	99.0
							Mean =	0.0	1.3	99.0	89.5	99.0
7	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A	107	0.0	5.0	99.0	99.0	99.0
							202	0.0	0.0	99.0	99.0	85.0
							307	0.0	0.0	99.0	99.0	99.0
							412	0.0	0.0	99.0	95.0	95.0
							Mean =	0.0	1.3	99.0	98.0	94.5
8	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A	108	0.0	0.0	99.0	95.0	99.0
	SHIELDDEX	3.33	OD	1.0 oz/a	POST	C	213	0.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0 oz/a	POST	C	312	0.0	0.0	99.0	99.0	99.0
	AGRIDEX			1.0 % v/v	POST	C	404	0.0	0.0	99.0	99.0	99.0
	AMSOL			2.0 % v/v	POST	C						
							Mean =	0.0	0.0	99.0	98.0	99.0
9	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A	109	0.0	0.0	99.0	99.0	99.0
	IMPACT	2.8	SC	0.75 oz/a	POST	C	201	0.0	0.0	99.0	99.0	85.0
	ATRAZINE	4	L	32.0 oz/a	POST	C	304	0.0	0.0	99.0	99.0	99.0
	AGRIDEX			1.0 % v/v	POST	C	409	0.0	0.0	99.0	99.0	95.0
	AMSOL			2.0 % v/v	POST	C						
							Mean =	0.0	0.0	99.0	99.0	94.5

University of Georgia

RESTRAINT AND SHIELDEX FOR WEED CONTROL IN FIELD CORN

Trial ID: CN-09-21 Study Dir.: JAY TURNER
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code							----- Zeama	----- Zeama	Amapa -----	Rapra -----	AGrass -----
Crop Code							Chlorosis Percent	Necrosis Percent	Control Percent	Control Percent	Control Percent
Part Rated							Apr-29-21	Apr-29-21	Apr-29-21	Apr-29-21	Apr-29-21
Rating Data Type											
Rating Unit											
Rating Date											
ARM Action Codes											
# Subsamples, Dec.											
Trt Treatment	Form	Form	Rate	Grow	Appl						
No. Name	Conc	Type	Rate	Stg	Code	Plot	11	12	13	14	15
10 BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A	110	0.0	0.0	99.0	99.0	95.0
LAUDIS	3.5	SC	3.0 oz/a	POST	C	212	0.0	0.0	99.0	99.0	99.0
ATRAZINE	4	L	32.0 oz/a	POST	C	306	0.0	0.0	99.0	99.0	99.0
AGRIDEX			1.0 % v/v	POST	C	401	0.0	0.0	99.0	99.0	99.0
AMSOL			2.0 % v/v	POST	C						
						Mean =	0.0	0.0	99.0	99.0	98.0
11 BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A	111	0.0	0.0	99.0	95.0	99.0
SHIELDEX	3.33	OD	1.0 oz/a	POST	C	207	0.0	0.0	99.0	99.0	99.0
ATRAZINE	4	L	32.0 oz/a	POST	C	313	0.0	0.0	99.0	99.0	99.0
ROUNDUP POWERMAX	5.5	SL	32.0 oz/a	POST	C	408	0.0	0.0	99.0	99.0	99.0
AMSOL			2.0 % v/v	POST	C						
						Mean =	0.0	0.0	99.0	98.0	99.0
12 BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A	112	0.0	0.0	99.0	99.0	99.0
SHIELDEX	3.33	OD	1.0 oz/a	POST	C	204	0.0	0.0	99.0	99.0	99.0
ATRAZINE	4	L	32.0 oz/a	POST	C	303	0.0	0.0	99.0	99.0	99.0
LIBERTY	2.34	SL	32.0 oz/a	POST	C	405	0.0	0.0	99.0	99.0	99.0
AGRIDEX			1.0 % v/v	POST	C						
AMSOL			2.0 % v/v	POST	C						
						Mean =	0.0	0.0	99.0	99.0	99.0
13 SHIELDEX	3.33	OD	1.0 oz/a	EPOST	B	113	0.0	0.0	99.0	99.0	99.0
ATRAZINE	4	L	32.0 oz/a	EPOST	B	210	0.0	0.0	99.0	99.0	95.0
AGRIDEX			1.0 % v/v	EPOST	B	301	0.0	0.0	99.0	99.0	99.0
AMSOL			2.0 % v/v	EPOST	B	414	0.0	0.0	99.0	99.0	90.0
						Mean =	0.0	0.0	99.0	99.0	95.8
14 RESTRAINT	6.498	EC	30.0 oz/a	EPOST	B	114	0.0	5.0	99.0	99.0	99.0
ATRAZINE	4	L	32.0 oz/a	EPOST	B	206	0.0	0.0	99.0	99.0	99.0
AGRIDEX			1.0 % v/v	EPOST	B	311	0.0	5.0	99.0	99.0	99.0
						407	0.0	0.0	99.0	99.0	99.0
						Mean =	0.0	2.5	99.0	99.0	99.0

University of Georgia

RESTRAINT AND SHIELDDEX FOR WEED CONTROL IN FIELD CORN													
Trial ID: CN-09-21		Study Dir.: JAY TURNER											
Location: PONDER FARM		Investigator: Eric P. Prostko											
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	ARM Action Codes	# Subsamples, Dec.	Zeama	Zeama	Zeama	Amapa	Rapra	
								Stunt Percent May-14-21	Chlorosis Percent May-14-21	Necrosis Percent May-14-21	Control Percent May-14-21	Control Percent May-14-21	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot	16	17	18	19	20
	1 NTC							101	0.0	0.0	0.0	0.0	0.0
								211	0.0	0.0	0.0	0.0	0.0
								305	0.0	0.0	0.0	0.0	0.0
								402	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0
	2 RESTRAINT	6.498	EC	36.0	oz/a	PRE	A	102	0.0	0.0	0.0	99.0	90.0
	ATRAZINE	4	L	32.0	oz/a	PRE	A	209	0.0	0.0	0.0	99.0	85.0
	SHIELDDEX	3.33	OD	1.0	oz/a	POST	C	308	5.0	0.0	0.0	99.0	99.0
	ATRAZINE	4	L	32.0	oz/a	POST	C	403	0.0	0.0	0.0	99.0	80.0
	AGRIDEX			1.0	% v/v	POST	C						
								Mean =	1.3	0.0	0.0	99.0	88.5
	3 RESTRAINT	6.498	EC	18.0	oz/a	PRE	A	103	0.0	0.0	0.0	99.0	90.0
	ATRAZINE	4	L	32.0	oz/a	PRE	A	208	5.0	0.0	0.0	99.0	90.0
	RESTRAINT	6.498	EC	18.0	oz/a	POST	C	302	10.0	0.0	0.0	99.0	90.0
	ATRAZINE	4	L	32.0	oz/a	POST	C	410	10.0	0.0	0.0	99.0	85.0
	AGRIDEX			1.0	% v/v	POST	C						
								Mean =	6.3	0.0	0.0	99.0	88.8
	4 RESICORE	3.29	EC	40.0	oz/a	PRE	A	104	0.0	0.0	0.0	99.0	99.0
	ATRAZINE	4	L	32.0	oz/a	PRE	A	205	15.0	0.0	0.0	99.0	90.0
	RESTRAINT	6.498	EC	30.0	oz/a	POST	C	314	5.0	0.0	0.0	99.0	90.0
	ATRAZINE	4	L	32.0	oz/a	POST	C	411	0.0	0.0	0.0	99.0	99.0
	AGRIDEX			1.0	% v/v	POST	C						
								Mean =	5.0	0.0	0.0	99.0	94.5
	5 RESICORE	3.29	EC	40.0	oz/a	PRE	A	105	10.0	0.0	0.0	99.0	95.0
	ATRAZINE	4	L	32.0	oz/a	PRE	A	203	0.0	0.0	0.0	99.0	95.0
	RESICORE	3.29	EC	40.0	oz/a	POST	C	309	5.0	0.0	0.0	95.0	95.0
	ATRAZINE	4	L	32.0	oz/a	POST	C	413	5.0	0.0	0.0	99.0	99.0
	AGRIDEX			1.0	% v/v	POST	C						
								Mean =	5.0	0.0	0.0	98.0	96.0
	6 RESTRAINT	6.498	EC	36.0	oz/a	PRE	A	106	0.0	0.0	0.0	99.0	99.0
	ATRAZINE	4	L	32.0	oz/a	PRE	A	214	5.0	0.0	0.0	75.0	50.0
								310	0.0	0.0	0.0	99.0	60.0
								406	0.0	0.0	0.0	99.0	99.0
								Mean =	1.3	0.0	0.0	93.0	77.0
	7 BICEP II MAGNUM	5.5	SC	53.0	oz/a	PRE	A	107	0.0	0.0	0.0	99.0	90.0
								202	10.0	0.0	0.0	99.0	90.0
								307	0.0	0.0	0.0	99.0	95.0
								412	0.0	0.0	0.0	95.0	90.0
								Mean =	2.5	0.0	0.0	98.0	91.3
	8 BICEP II MAGNUM	5.5	SC	53.0	oz/a	PRE	A	108	0.0	0.0	0.0	99.0	95.0
	SHIELDDEX	3.33	OD	1.0	oz/a	POST	C	213	0.0	0.0	0.0	95.0	90.0
	ATRAZINE	4	L	32.0	oz/a	POST	C	312	0.0	0.0	0.0	95.0	95.0
	AGRIDEX			1.0	% v/v	POST	C	404	0.0	0.0	0.0	99.0	99.0
	AMSOL			2.0	% v/v	POST	C						
								Mean =	0.0	0.0	0.0	97.0	94.8
	9 BICEP II MAGNUM	5.5	SC	53.0	oz/a	PRE	A	109	0.0	0.0	0.0	99.0	85.0
	IMPACT	2.8	SC	0.75	oz/a	POST	C	201	15.0	0.0	0.0	95.0	85.0
	ATRAZINE	4	L	32.0	oz/a	POST	C	304	0.0	0.0	0.0	99.0	95.0
	AGRIDEX			1.0	% v/v	POST	C	409	0.0	0.0	0.0	95.0	90.0
	AMSOL			2.0	% v/v	POST	C						
								Mean =	3.8	0.0	0.0	97.0	88.8

University of Georgia

RESTRAINT AND SHIELDDEX FOR WEED CONTROL IN FIELD CORN				
Trial ID:	CN-09-21	Study Dir.:	JAY TURNER	
Location:	PONDER FARM	Investigator:	Eric P. Prostko	

Weed Code														
Crop Code														
Part Rated														
Rating Data Type														
Rating Unit														
Rating Date														
ARM Action Codes														
# Subsamples, Dec.														
Trt Treatment	Form	Form	Rate	Grow	Appl									
No. Name	Conc	Type	Rate	Unit	Stg	Code	Plot	16	17	18	19	20		
10 BICEP II MAGNUM	5.5	SC	53.0	oz/a	PRE	A	110	0.0	0.0	0.0	99.0	95.0		
LAUDIS	3.5	SC	3.0	oz/a	POST	C	212	0.0	0.0	0.0	99.0	95.0		
ATRAZINE	4	L	32.0	oz/a	POST	C	306	0.0	0.0	0.0	95.0	95.0		
AGRIDEX			1.0	% v/v	POST	C	401	10.0	0.0	0.0	99.0	90.0		
AMSOL			2.0	% v/v	POST	C								
							Mean =	2.5	0.0	0.0	98.0	93.8		
11 BICEP II MAGNUM	5.5	SC	53.0	oz/a	PRE	A	111	0.0	0.0	0.0	99.0	80.0		
SHIELDDEX	3.33	OD	1.0	oz/a	POST	C	207	0.0	0.0	0.0	99.0	95.0		
ATRAZINE	4	L	32.0	oz/a	POST	C	313	0.0	0.0	0.0	99.0	95.0		
ROUNDUP POWERMAX	5.5	SL	32.0	oz/a	POST	C	408	0.0	0.0	0.0	99.0	99.0		
AMSOL			2.0	% v/v	POST	C								
							Mean =	0.0	0.0	0.0	99.0	92.3		
12 BICEP II MAGNUM	5.5	SC	53.0	oz/a	PRE	A	112	0.0	0.0	0.0	99.0	95.0		
SHIELDDEX	3.33	OD	1.0	oz/a	POST	C	204	0.0	0.0	0.0	99.0	95.0		
ATRAZINE	4	L	32.0	oz/a	POST	C	303	0.0	0.0	0.0	99.0	99.0		
LIBERTY	2.34	SL	32.0	oz/a	POST	C	405	10.0	0.0	0.0	99.0	99.0		
AGRIDEX			1.0	% v/v	POST	C								
AMSOL			2.0	% v/v	POST	C								
							Mean =	2.5	0.0	0.0	99.0	97.0		
13 SHIELDDEX	3.33	OD	1.0	oz/a	EPOST	B	113	0.0	0.0	0.0	99.0	95.0		
ATRAZINE	4	L	32.0	oz/a	EPOST	B	210	0.0	0.0	0.0	99.0	99.0		
AGRIDEX			1.0	% v/v	EPOST	B	301	10.0	0.0	0.0	99.0	99.0		
AMSOL			2.0	% v/v	EPOST	B	414	5.0	0.0	0.0	75.0	99.0		
							Mean =	3.8	0.0	0.0	93.0	98.0		
14 RESTRAINT	6.498	EC	30.0	oz/a	EPOST	B	114	10.0	0.0	0.0	99.0	95.0		
ATRAZINE	4	L	32.0	oz/a	EPOST	B	206	15.0	0.0	0.0	99.0	99.0		
AGRIDEX			1.0	% v/v	EPOST	B	311	10.0	0.0	0.0	99.0	99.0		
							407	0.0	0.0	0.0	99.0	99.0		
							Mean =	8.8	0.0	0.0	99.0	98.0		

University of Georgia

RESTRAINT AND SHIELDDEX FOR WEED CONTROL IN FIELD CORN

Trial ID: CN-09-21 Study Dir.: JAY TURNER
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code						Agrass	----- ZEAMA PLOT - YIELD	----- ZEAMA PLOT - YIELD	
Crop Code						Control	LBS/PLOT	BU/A	
Part Rated						Percent	Sep-7-21	Sep-7-21	
Rating Data Type						May-14-21		TY1	
Rating Unit								- 1	
Rating Date									
ARM Action Codes									
# Subsamples, Dec.									
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code Plot	21	22	23
1	NTC					101	0.0	28.0	142.1
						211	0.0	40.0	203.0
						305	0.0	49.0	248.6
						402	0.0	.	.
						Mean =	0.0	39.0	197.9
2	RESTRAINT	6.498	EC	36.0 oz/a	PRE	A 102	95.0	55.0	279.1
	ATRAZINE	4	L	32.0 oz/a	PRE	A 209	85.0	51.0	258.8
	SHIELDDEX	3.33	OD	1.0 oz/a	POST	C 308	85.0	49.0	248.6
	ATRAZINE	4	L	32.0 oz/a	POST	C 403	65.0	51.0	258.8
	AGRIDEX			1.0 % v/v	POST	C			
						Mean =	82.5	51.5	261.3
3	RESTRAINT	6.498	EC	18.0 oz/a	PRE	A 103	99.0	50.0	253.7
	ATRAZINE	4	L	32.0 oz/a	PRE	A 208	90.0	48.0	243.6
	RESTRAINT	6.498	EC	18.0 oz/a	POST	C 302	85.0	56.0	284.1
	ATRAZINE	4	L	32.0 oz/a	POST	C 410	75.0	46.0	233.4
	AGRIDEX			1.0 % v/v	POST	C			
						Mean =	87.3	50.0	253.7
4	RESICORE	3.29	EC	40.0 oz/a	PRE	A 104	99.0	53.0	268.9
	ATRAZINE	4	L	32.0 oz/a	PRE	A 205	85.0	50.0	253.7
	RESTRAINT	6.498	EC	30.0 oz/a	POST	C 314	95.0	34.0	172.5
	ATRAZINE	4	L	32.0 oz/a	POST	C 411	90.0	50.0	253.7
	AGRIDEX			1.0 % v/v	POST	C			
						Mean =	92.3	46.8	237.2
5	RESICORE	3.29	EC	40.0 oz/a	PRE	A 105	99.0	53.0	268.9
	ATRAZINE	4	L	32.0 oz/a	PRE	A 203	99.0	51.0	258.8
	RESICORE	3.29	EC	40.0 oz/a	POST	C 309	99.0	50.0	253.7
	ATRAZINE	4	L	32.0 oz/a	POST	C 413	85.0	50.0	253.7
	AGRIDEX			1.0 % v/v	POST	C			
						Mean =	95.5	51.0	258.8
6	RESTRAINT	6.498	EC	36.0 oz/a	PRE	A 106	99.0	54.0	274.0
	ATRAZINE	4	L	32.0 oz/a	PRE	A 214	95.0	32.0	162.4
						310	60.0	45.0	228.3
						406	95.0	52.0	263.8
						Mean =	87.3	45.8	232.1
7	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A 107	95.0	54.0	274.0
						202	75.0	55.0	279.1
						307	95.0	55.0	279.1
						412	90.0	50.0	253.7
						Mean =	88.8	53.5	271.5
8	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A 108	99.0	49.0	248.6
	SHIELDDEX	3.33	OD	1.0 oz/a	POST	C 213	95.0	48.0	243.6
	ATRAZINE	4	L	32.0 oz/a	POST	C 312	95.0	47.0	238.5
	AGRIDEX			1.0 % v/v	POST	C 404	95.0	56.0	284.1
	AMSOL			2.0 % v/v	POST	C			
						Mean =	96.0	50.0	253.7
9	BICEP II MAGNUM	5.5	SC	53.0 oz/a	PRE	A 109	99.0	51.0	258.8
	IMPACT	2.8	SC	0.75 oz/a	POST	C 201	75.0	50.0	253.7
	ATRAZINE	4	L	32.0 oz/a	POST	C 304	99.0	53.0	268.9
	AGRIDEX			1.0 % v/v	POST	C 409	90.0	52.0	263.8
	AMSOL			2.0 % v/v	POST	C			
						Mean =	90.8	51.5	261.3

University of Georgia

RESTRAINT AND SHIELDDEX FOR WEED CONTROL IN FIELD CORN

Trial ID: CN-09-21 Study Dir.: JAY TURNER
 Location: PONDER FARM Investigator: Eric P. Prostko

	Agrass	----- ZEAMA PLOT - YIELD LBS/PLOT Sep-7-21	----- ZEAMA PLOT - YIELD BU/A Sep-7-21 TY1 - 1												
Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date ARM Action Codes # Subsamples, Dec.															
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Trt No.</th> <th style="width: 15%;">Treatment Name</th> <th style="width: 10%;">Form Conc</th> <th style="width: 10%;">Form Type</th> <th style="width: 10%;">Rate</th> <th style="width: 10%;">Rate Unit</th> <th style="width: 10%;">Grow Stg</th> <th style="width: 10%;">Appl Code</th> <th style="width: 10%;">Plot</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> </table>	Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot				21	22	23
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot							
10	BICEP II MAGNUM	5.5	SC	53.0	oz/a	PRE	A	110	99.0	5.0	25.4				
	LAUDIS	3.5	SC	3.0	oz/a	POST	C	212	95.0	47.0	238.5				
	ATRAZINE	4	L	32.0	oz/a	POST	C	306	99.0	53.0	268.9				
	AGRIDEX			1.0	% v/v	POST	C	401	95.0	55.0	279.1				
	AMSOL			2.0	% v/v	POST	C								
	Mean =								97.0	40.0	203.0				
11	BICEP II MAGNUM	5.5	SC	53.0	oz/a	PRE	A	111	95.0	43.0	218.2				
	SHIELDDEX	3.33	OD	1.0	oz/a	POST	C	207	99.0	56.0	284.1				
	ATRAZINE	4	L	32.0	oz/a	POST	C	313	95.0	49.0	248.6				
	ROUNDUP POWERMAX	5.5	SL	32.0	oz/a	POST	C	408	95.0	53.0	268.9				
	AMSOL			2.0	% v/v	POST	C								
	Mean =								96.0	50.3	255.0				
12	BICEP II MAGNUM	5.5	SC	53.0	oz/a	PRE	A	112	99.0	43.0	218.2				
	SHIELDDEX	3.33	OD	1.0	oz/a	POST	C	204	99.0	55.0	279.1				
	ATRAZINE	4	L	32.0	oz/a	POST	C	303	99.0	52.0	263.8				
	LIBERTY	2.34	SL	32.0	oz/a	POST	C	405	99.0	50.0	253.7				
	AGRIDEX			1.0	% v/v	POST	C								
	AMSOL			2.0	% v/v	POST	C								
	Mean =								99.0	50.0	253.7				
13	SHIELDDEX	3.33	OD	1.0	oz/a	EPOST	B	113	90.0	47.0	238.5				
	ATRAZINE	4	L	32.0	oz/a	EPOST	B	210	50.0	43.0	218.2				
	AGRIDEX			1.0	% v/v	EPOST	B	301	90.0	55.0	279.1				
	AMSOL			2.0	% v/v	EPOST	B	414	60.0	30.0	152.2				
	Mean =								72.5	43.8	222.0				
14	RESTRAINT	6.498	EC	30.0	oz/a	EPOST	B	114	99.0	33.0	167.4				
	ATRAZINE	4	L	32.0	oz/a	EPOST	B	206	99.0	49.0	248.6				
	AGRIDEX			1.0	% v/v	EPOST	B	311	95.0	50.0	253.7				
								407	99.0	56.0	284.1				
	Mean =								98.0	47.0	238.5				

University of Georgia

RESTRAINT AND SHIELDEX FOR WEED CONTROL IN FIELD CORN

Trial ID: CN-09-21 Study Dir.: JAY TURNER
Location: PONDER FARM Investigator: Eric P. Prostko

Part Rated

Plant = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)

Leaf = LEAF / FOLIAGE

ARM Action Codes

TY1 = 5.07402198*[22]