

University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES
 WITH PROWL BUT NO ROUNDUP OR LIBERTY
 Trial ID: CN-02-23 Study Dir.:
 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	Grow Stg	Appl Code	Amt Product to Measure	Diluent	Rep				
									1	2	3	4	
1	NO PRE NO POST							- -	101	211	309	404	
2	NO PRE CALLISTO ATRAZINE PROWL H20 AGRIDEX	4 4 3.8	SC L SC	3.0 64.0 32.0	oz/a oz/a oz/a	POST POST POST POST	B B B B	2.344 mL/mx 50.0 mL/mx 25.0 mL/mx 15.0 mL/mx	- 1407.7 mL	102	209	310	409
3	NO PRE LAUDIS ATRAZINE PROWL H20 AGRIDEX	3.5 4 3.8	SC L SC	3.0 64.0 32.0	oz/a oz/a oz/a	POST POST POST POST	B B B B	2.344 mL/mx 50.0 mL/mx 25.0 mL/mx 15.0 mL/mx	- 1407.7 mL	103	202	304	412
4	NO PRE IMPACT ATRAZINE PROWL H20 AGRIDEX	2.8 4 3.8	SC L SC	1.0 64.0 32.0	oz/a oz/a oz/a	POST POST POST POST	B B B B	0.7812 mL/mx 50.0 mL/mx 25.0 mL/mx 15.0 mL/mx	- 1409.2 mL	104	205	307	408
5	NO PRE SHIELDDEX ATRAZINE PROWL H20 AGRIDEX	3.33 4 3.8	SC L SC	1.0 64.0 32.0	oz/a oz/a oz/a	POST POST POST POST	B B B B	0.7812 mL/mx 50.0 mL/mx 25.0 mL/mx 15.0 mL/mx	- 1409.2 mL	105	208	306	402
6	WARRANT NO POST	3	ME	48.0	oz/a	PRE	A	37.5 mL/mx -	1462.5 mL -	106	201	302	406
7	WARRANT CALLISTO ATRAZINE PROWL H20 AGRIDEX	3 4 4 3.8	ME SC L SC	48.0 3.0 64.0 32.0	oz/a oz/a oz/a oz/a	PRE POST POST POST POST	A B B B B	37.5 mL/mx 2.344 mL/mx 50.0 mL/mx 25.0 mL/mx 15.0 mL/mx	1462.5 mL 1407.7 mL	107	206	312	407
8	WARRANT LAUDIS ATRAZINE PROWL H20 AGRIDEX	3 3.5 4 3.8	ME SC L SC	48.0 3.0 64.0 32.0	oz/a oz/a oz/a oz/a	PRE POST POST POST POST	A B B B B	37.5 mL/mx 2.344 mL/mx 50.0 mL/mx 25.0 mL/mx 15.0 mL/mx	1462.5 mL 1407.7 mL	108	212	305	403
9	WARRANT IMPACT ATRAZINE PROWL H20 AGRIDEX	3 2.8 4 3.8	ME SC L SC	48.0 1.0 64.0 32.0	oz/a oz/a oz/a oz/a	PRE POST POST POST POST	A B B B B	37.5 mL/mx 0.7812 mL/mx 50.0 mL/mx 25.0 mL/mx 15.0 mL/mx	1462.5 mL 1409.2 mL	109	207	311	410
10	WARRANT SHIELDDEX ATRAZINE PROWL H20 AGRIDEX	3 3.33 4 3.8	ME SC L SC	48.0 1.0 64.0 32.0	oz/a oz/a oz/a oz/a	PRE POST POST POST POST	A B B B B	37.5 mL/mx 0.7812 mL/mx 50.0 mL/mx 25.0 mL/mx 15.0 mL/mx	1462.5 mL 1409.2 mL	110	203	301	405
11	NO PRE REVULIN Q ATRAZINE PROWL H20 AGRIDEX	51.2 4 3.8	DG L SC	3.5 64.0 32.0	oz/a oz/a oz/a	POST POST POST POST	B B B B	2.621 g/mx 50.0 mL/mx 25.0 mL/mx 15.0 mL/mx	- 1407.4 mL	111	204	308	401
12	WARRANT REVULIN Q ATRAZINE PROWL H20 AGRIDEX	3 51.2 4 3.8	ME DG L SC	48.0 3.5 64.0 32.0	oz/a oz/a oz/a oz/a	PRE POST POST POST POST	A B B B B	37.5 mL/mx 2.621 g/mx 50.0 mL/mx 25.0 mL/mx 15.0 mL/mx	1462.5 mL 1407.4 mL	112	210	303	411

Sort Order: Replicate 1

University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES
WITH PROWL BUT NO ROUNDUP OR LIBERTY
Trial ID: CN-02-23 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

Trial Comments

REVULIN Q = NICOSULFURON (14.4%) + MESOTRIONE (36.8%)

HARVEST DATE: 09/05/23
HARVEST MOISTURE: 15.45%
YIELDS ADJUSTED TO 15.5%

MISSING YIELD DATA IN PLOTS 101 AND 102 DUE TO LODGING FROM HURRICANE IDALIA (08/30/23)

SUMMARY:

- 1) GENERALLY, PALMER AMARANTH, WILD RADISH, AND ANNUAL GRASS CONTROL WAS BETTER WITH A PRE APPLICATION OF WARRANT VS. NO PRE.
- 2) SHIELDEX + ATRAZINE + PROWL CAUSED MORE CORN BLEACHING THAN THE OTHER HPPD HERBICIDES EARLY IN THE SEASON.
- 3) PALMER AMARANTH AND WILD RADISH CONTROL WAS SIMILAR BETWEEN POST APPLIED CALLISTO, LAUDIS, IMPACT, SHIELDEX, AND REVULIN Q WHEN THEY WERE TANK-MIXED WITH ATRAZINE + PROWL.
- 3) ANNUAL GRASS CONTROL WAS LOWER AND TOTAL WEED COVER AT HARVEST WAS HIGHER WITH POST APPLIED CALLISTO + ATRAZINE + PROWL AND IMPACT + ATRAZINE + PROWL WHEN COMPARED TO SIMILAR TREATMENTS OF LAUDIS, SHIELDEX, OR REVULIN Q.
- 4) FOR CORN YIELD, THERE WAS NO INTERACTION BETWEEN PRE AND POST TREATMENTS (P=0.4436). WHEN AVERGED OVER POST TREATMENTS, YIELDS WERE 3% HIGHER WHEN WARRANT WAS APPLIED PRE VS. NO PRE. WHEN AVERGED OVER PRE TREATMENT, THE FOLLOWING OBSERVATIONS WERE MADE:
 - A) ALL POST TREATMENTS RESULTED IN HIGHER YIELDS THAN THE NTC (237 BU/A VS. 251-267 BU/A)
 - B) PLOTS TREATED WITH LAUDIS + ATRAZINE + PROWL HAD HIGHER YIELDS THAN CALLISTO + ATRAZINE + PROWL AND IMPACT + ATRAZINE + PROWL.
 - C) NO OTHER YIELD DIFFERENCES WERE OBSERVED.

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 Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: _____ 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/CRAB/GOOSE/CROW
4.	LAMAM	HE	NBIT

Crop 1: ZEAMA FIELD CORN Variety: PIONEER 2042VYHR
 Planting Date: Mar-22-23 Planting Method: MONOSEM VACUUM
 Rate: 33880 S/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: FACTOR

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.	PEANUT		2022

MAINTENANCE

Field Prep./Maintenance: 1 TON/A LIME - PREPLANT
 800 LBS/A 5-15-30 PREPLANT
 122-0-0-15 SIDEDRESS ON APRIL 24 AND MAY 3
 AXILO BMZ @ 2 LBS/A (MICRONUTRIENTS) - APRIL 20

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

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SOIL DESCRIPTION

% Sand: 94 % OM: 0.61 Texture: SAND
 % Silt: 4 pH: 6.0 Soil Name: TIFTON
 % Clay: 2 CEC: 2.6 Fert. Level: GOOD

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.	Mar-24-23		0.4	IN	SPRINKLER - LATERAL MOVE		
2.	Mar-25-23		0.4	IN	RAINFALL		
3.	Mar-27-23		0.125	IN	RAINFALL		
4.	Mar-28-23		0.75	IN	RAINFALL		
5.	Apr-3-23		0.83	IN	RAINFALL		
6.	Apr-7-23		0.45	IN	SPRINKLER - LATERAL MOVE		
7.	Apr-8-23		0.42	IN	RAINFALL		
8.	Apr-14-23		0.11	IN	RAINFALL		
9.	Apr-19-23		0.5	IN	SPRINKLER - LATERAL MOVE		
10.	Apr-25-23		0.25	IN	SPRINKLER - LATERAL MOVE		
11.	Apr-27-23		1.0	IN	RAINFALL		
12.	Apr-29-23		0.65	IN	RAINFALL		
13.	May-11-23		0.5	IN	SPRINKLER - LATERAL MOVE		
14.	May-12-23		2.5	IN	RAINFALL		
15.	May-19-23		0.5	IN	SPRINKLER - LATERAL MOVE		
16.	May-20-23		0.1	IN	RAINFALL		
17.	May-22-23		0.75	IN	RAINFALL		

Overall Moisture Conditions: _____
 Closest Weather Station: _____ Distance: _____ Unit: _____

APPLICATION DESCRIPTION

	A	B
Application Date:	Mar-23-23	Apr-15-23
Time of Day:	8:00 AM	800 AM
Application Method:	BROADCAST	BROADCAST
Application Timing:	PRE	POST
Applic. Placement:	SOIL	FOLIAGE
Air Temp., Unit:	56 F	59 F
% Relative Humidity:	94	95
Wind Velocity, Unit:	1 MPH	2 MPH
Dew Presence (Y/N):	N	Y
Water Hardness:	--	--
Soil Temp., Unit:	60 F	60 F
Soil Moisture:	OPTIMUM	OPTIMUM
% Cloud Cover:	5	0

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZEAMA,	ZEAMA,
Stage Scale:		V4
Height, Unit:		6, IN

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

APPLICATION EQUIPMENT		
	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	37	36
Nozzle Type:	AIXR	AIXR
Nozzle Size:	11002	11002
Nozzle Spacing, Unit:	20 IN	20 IN
Nozzles/Row:		
Band Width, Unit:		
Boom Length, Unit:		
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	3.5 MPH	3.5 MPH
Incorporation Equip.:		
Hours to Incorp.:		
Incorp. Depth, Unit:		
Carrier:	WATER	WATER
Spray Volume, Unit:	15 GPA	15 GPA
Spray pH:		
Propellant:	CO2	CO2
Tank Mix (Y/N):		

Trt No	Treatment Application Comment

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Weed Code	----- ZEAMA	RAPRA -----	AGRASS -----	Zeama	Rapra	Amapa	Agrass	Lamam	Zeama	Zeama
Crop Code	STUNTING	Control	Control	Stunting	Control	Control	Control	Control	Stunting	Chlorosis
Part Rated	%	%	%	%	%	%	%	%	%	%
Rating Data Type	Apr-4-23	Apr-4-23	Apr-4-23	Apr-13-23	Apr-13-23	Apr-13-23	Apr-13-23	Apr-13-23	Apr-20-23	Apr-20-23
Rating Unit	1	2	3	4	5	6	7	8	9	10
Rating Date	1	2	3	4	5	6	7	8	9	10
Trt Treatment Form Form Rate Grow Appl	1	2	3	4	5	6	7	8	9	10
No. Name Conc Type Rate Unit Stg Code	1	2	3	4	5	6	7	8	9	10
TABLE OF R MEANS										
Replicate 1	0.0	16.7	49.5	0.0	0.0	49.5	44.2	49.5	5.0	4.6
Replicate 2	0.0	7.5	47.8	0.0	0.0	49.5	46.6	49.5	7.9	2.9
Replicate 3	0.0	6.7	45.0	0.0	0.0	49.5	44.2	49.5	8.3	2.1
Replicate 4	0.0	10.8	37.9	0.0	0.0	49.5	40.8	49.5	3.3	2.1
TABLE OF A (PRE) MEANS										
1 NO PRE	0.0 -	0.4 b	2.7 b	0.0 -	0.0 -	0.0 b	0.0 b	0.0 b	6.0 -	3.1 -
2 WARRANT 3 ME 48.0 oz/a PRE A	0.0 -	20.4 a	87.4 a	0.0 -	0.0 -	99.0 a	87.9 a	99.0 a	6.3 -	2.7 -
LSD P=.10		11.88	17.60				5.56		3.24	0.98
Standard Deviation	0.00	17.48	25.91	0.00	0.00	0.00	8.18	0.00	4.77	1.44
CV	0.00	167.81	57.49	0.00	0.00	0.00	18.62	0.00	77.60	49.49
TABLE OF B (POST) MEANS										
1 NO POST	0.0 -	10.0 -	42.3 -	0.0 -	0.0 -	49.5 -	39.4 -	49.5 -	0.0 c	0.0 -
2 CALLISTO 4 SC 3.0 oz/a POST B	0.0 -	12.5 -	46.8 -	0.0 -	0.0 -	49.5 -	45.6 -	49.5 -	4.4 bc	2.5 -
2 ATRAZINE 4 L 64.0 oz/a POST B										
2 PROWL H20 3.8 SC 32.0 oz/a POST B										
2 AGRIDEX 1.0 % v/v POST B										
3 LAUDIS 3.5 SC 3.0 oz/a POST B	0.0 -	11.3 -	43.0 -	0.0 -	0.0 -	49.5 -	45.5 -	49.5 -	10.0 a	2.5 -
3 ATRAZINE 4 L 64.0 oz/a POST B										
3 PROWL H20 3.8 SC 32.0 oz/a POST B										
3 AGRIDEX 1.0 % v/v POST B										
4 IMPACT 2.8 SC 1.0 oz/a POST B	0.0 -	10.0 -	48.0 -	0.0 -	0.0 -	49.5 -	45.6 -	49.5 -	7.5 ab	5.0 -
4 ATRAZINE 4 L 64.0 oz/a POST B										
4 PROWL H20 3.8 SC 32.0 oz/a POST B										
4 AGRIDEX 1.0 % v/v POST B										
5 SHIELDDEX 3.33 SC 1.0 oz/a POST B	0.0 -	8.8 -	38.6 -	0.0 -	0.0 -	49.5 -	41.9 -	49.5 -	8.1 ab	5.0 -
5 ATRAZINE 4 L 64.0 oz/a POST B										
5 PROWL H20 3.8 SC 32.0 oz/a POST B										
5 AGRIDEX 1.0 % v/v POST B										
6 REVULIN Q 51.2 DG 3.5 oz/a POST B	0.0 -	10.0 -	51.8 -	0.0 -	0.0 -	49.5 -	45.6 -	49.5 -	6.9 ab	2.5 -
6 ATRAZINE 4 L 64.0 oz/a POST B										
6 PROWL H20 3.8 SC 32.0 oz/a POST B										
6 AGRIDEX 1.0 % v/v POST B										
LSD P=.10		5.47	9.09				6.49		5.05	3.92
Standard Deviation	0.00	6.24	10.37	0.00	0.00	0.00	7.40	0.00	5.76	4.47
CV	0.00	59.87	23.02	0.00	0.00	0.00	16.85	0.00	93.70	153.33
TABLE OF A (PRE) B (POST) MEANS										
1 NO PRE	0.0 -	0.0 -	0.0 -	0.0 -	0.0 -	0.0 b	0.0 -	0.0 b	0.0 -	0.0 -
1 NO POST										
2 WARRANT 3 ME 48.0 oz/a PRE A	0.0 -	20.0 -	84.5 -	0.0 -	0.0 -	99.0 a	78.8 -	99.0 a	0.0 -	0.0 -
1 NO POST										
1 NO PRE	0.0 -	0.0 -	0.0 -	0.0 -	0.0 -	0.0 b	0.0 -	0.0 b	3.8 -	2.5 -
2 CALLISTO 4 SC 3.0 oz/a POST B										
2 ATRAZINE 4 L 64.0 oz/a POST B										
2 PROWL H20 3.8 SC 32.0 oz/a POST B										
2 AGRIDEX 1.0 % v/v POST B										

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.

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						-----	RAPRA	AGRASS		Rapra	Amapa	Agrass	Lamam		Zeama	Zeama
						ZEAMA	-----	-----		Zeama					Zeama	Zeama
						STUNTING	Control	Control	Stunting	Control	Control	Control	Control	Control	Stunting	Chlorosis
						%	%	%	%	%	%	%	%	%	%	%
						Apr-4-23	Apr-4-23	Apr-4-23	Apr-13-23	Apr-13-23	Apr-13-23	Apr-13-23	Apr-13-23	Apr-13-23	Apr-20-23	Apr-20-23
Trt	Treatment	Form	Form	Rate	Grow	Appl										
No.	Name	Conc	Type	Rate	Stg	Code	1	2	3	4	5	6	7	8	9	10
2	WARRANT	3 ME		48.0 oz/a	PRE	A	0.0 -	25.0 -	93.5 -	0.0 -	0.0 -	99.0 a	91.3 -	99.0 a	5.0 -	2.5 -
2	CALLISTO	4 SC		3.0 oz/a	POST	B										
2	ATRAZINE	4 L		64.0 oz/a	POST	B										
2	PROWL H20	3.8 SC		32.0 oz/a	POST	B										
2	AGRIDEX			1.0 % v/v	POST	B										
1	NO PRE						0.0 -	0.0 -	0.0 -	0.0 -	0.0 -	0.0 b	0.0 -	0.0 b	10.0 -	2.5 -
3	LAUDIS	3.5 SC		3.0 oz/a	POST	B										
3	ATRAZINE	4 L		64.0 oz/a	POST	B										
3	PROWL H20	3.8 SC		32.0 oz/a	POST	B										
3	AGRIDEX			1.0 % v/v	POST	B										
2	WARRANT	3 ME		48.0 oz/a	PRE	A	0.0 -	22.5 -	86.0 -	0.0 -	0.0 -	99.0 a	91.0 -	99.0 a	10.0 -	2.5 -
3	LAUDIS	3.5 SC		3.0 oz/a	POST	B										
3	ATRAZINE	4 L		64.0 oz/a	POST	B										
3	PROWL H20	3.8 SC		32.0 oz/a	POST	B										
3	AGRIDEX			1.0 % v/v	POST	B										
1	NO PRE						0.0 -	0.0 -	0.0 -	0.0 -	0.0 -	0.0 b	0.0 -	0.0 b	7.5 -	5.0 -
4	IMPACT	2.8 SC		1.0 oz/a	POST	B										
4	ATRAZINE	4 L		64.0 oz/a	POST	B										
4	PROWL H20	3.8 SC		32.0 oz/a	POST	B										
4	AGRIDEX			1.0 % v/v	POST	B										
2	WARRANT	3 ME		48.0 oz/a	PRE	A	0.0 -	20.0 -	96.0 -	0.0 -	0.0 -	99.0 a	91.3 -	99.0 a	7.5 -	5.0 -
4	IMPACT	2.8 SC		1.0 oz/a	POST	B										
4	ATRAZINE	4 L		64.0 oz/a	POST	B										
4	PROWL H20	3.8 SC		32.0 oz/a	POST	B										
4	AGRIDEX			1.0 % v/v	POST	B										
1	NO PRE						0.0 -	0.0 -	0.0 -	0.0 -	0.0 -	0.0 b	0.0 -	0.0 b	7.5 -	6.3 -
5	SHIELDDEX	3.33 SC		1.0 oz/a	POST	B										
5	ATRAZINE	4 L		64.0 oz/a	POST	B										
5	PROWL H20	3.8 SC		32.0 oz/a	POST	B										
5	AGRIDEX			1.0 % v/v	POST	B										
2	WARRANT	3 ME		48.0 oz/a	PRE	A	0.0 -	17.5 -	77.3 -	0.0 -	0.0 -	99.0 a	83.8 -	99.0 a	8.8 -	3.8 -
5	SHIELDDEX	3.33 SC		1.0 oz/a	POST	B										
5	ATRAZINE	4 L		64.0 oz/a	POST	B										
5	PROWL H20	3.8 SC		32.0 oz/a	POST	B										
5	AGRIDEX			1.0 % v/v	POST	B										
1	NO PRE						0.0 -	2.5 -	16.3 -	0.0 -	0.0 -	0.0 b	0.0 -	0.0 b	7.5 -	2.5 -
6	REVULIN Q	51.2 DG		3.5 oz/a	POST	B										
6	ATRAZINE	4 L		64.0 oz/a	POST	B										
6	PROWL H20	3.8 SC		32.0 oz/a	POST	B										
6	AGRIDEX			1.0 % v/v	POST	B										
2	WARRANT	3 ME		48.0 oz/a	PRE	A	0.0 -	17.5 -	87.3 -	0.0 -	0.0 -	99.0 a	91.3 -	99.0 a	6.3 -	2.5 -
6	REVULIN Q	51.2 DG		3.5 oz/a	POST	B										
6	ATRAZINE	4 L		64.0 oz/a	POST	B										
6	PROWL H20	3.8 SC		32.0 oz/a	POST	B										
6	AGRIDEX			1.0 % v/v	POST	B										
LSD P=.10							.	7.56	18.75	.	.	.	9.18	.	6.28	5.83
Standard Deviation							0.00	6.10	15.13	0.00	0.00	0.00	7.40	0.00	5.07	4.70
CV							0.00	58.57	33.58	0.00	0.00	0.00	16.85	0.00	82.42	161.12

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.

University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES WITH PROWL BUT NO ROUNDUP OR LIBERTY																	
Trial ID:		CN-02-23		Study Dir.:													
Location:		PONDER FARM		Investigator:		Eric P. Prostko											
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Zeama	Rapra	Amapa	Agrass	Zeama	Zeama	Amapa	Rapra	Agrass	Amapa	Rapra	
						Bleaching %	Control %	Control %	Control %	Stunting %	Bleaching %	Control %	Control %	Control %	Control %	Control %	
						Apr-20-23	Apr-20-23	Apr-20-23	Apr-20-23	May-2-23	May-2-23	May-2-23	May-2-23	May-2-23	Jun-13-23	Jun-13-23	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Stg	Appl Code	11	12	13	14	15	16	17	18	19	20	21
TABLE OF R MEANS																	
Replicate 1							2.5	78.3	90.8	85.5	5.8	3.8	90.8	86.3	88.7	90.8	80.8
Replicate 2							3.8	79.2	90.8	88.0	5.4	6.7	90.8	84.6	89.4	90.8	79.1
Replicate 3							3.8	79.2	90.8	86.3	7.5	5.8	90.8	84.2	88.2	90.1	80.2
Replicate 4							3.8	79.2	90.8	81.3	2.5	3.8	90.8	85.0	83.4	90.4	79.5
TABLE OF A (PRE) MEANS																	
1 NO PRE							3.1 -	78.8 -	82.5 b	76.3 b	6.9 a	5.2 -	82.5 b	82.5 b	79.6 b	82.5 b	80.1 -
2 WARRANT 3 ME 48.0 oz/a PRE A							3.8 -	79.2 -	99.0 a	94.3 a	3.8 b	4.8 -	99.0 a	87.5 a	95.3 a	98.5 a	79.7 -
LSD P=.10							1.23	0.98	.	2.69	2.58	1.70	.	2.12	5.24	0.75	0.49
Standard Deviation							1.82	1.44	0.00	3.95	3.80	2.50	0.00	3.12	7.71	1.11	0.72
CV							52.84	1.83	0.00	4.64	71.45	50.00	0.00	3.67	8.82	1.22	0.90
TABLE OF B (POST) MEANS																	
1 NO POST							0.0 d	0.0 b	49.5 b	40.6 b	0.0 b	0.0 c	49.5 b	15.0 b	41.9 b	48.5 b	0.0 b
2 CALLISTO 4 SC 3.0 oz/a POST B							3.1 bc	95.0 a	99.0 a	93.5 a	2.5 ab	1.9 c	99.0 a	99.0 a	93.9 a	99.0 a	96.0 a
2 ATRAZINE 4 L 64.0 oz/a POST B																	
2 PROWL H20 3.8 SC 32.0 oz/a POST B																	
2 AGRIDEX 1.0 % v/v POST B																	
3 LAUDIS 3.5 SC 3.0 oz/a POST B							0.6 d	93.8 a	99.0 a	96.8 a	7.5 a	1.3 c	99.0 a	99.0 a	98.0 a	99.0 a	95.5 a
3 ATRAZINE 4 L 64.0 oz/a POST B																	
3 PROWL H20 3.8 SC 32.0 oz/a POST B																	
3 AGRIDEX 1.0 % v/v POST B																	
4 IMPACT 2.8 SC 1.0 oz/a POST B							4.4 b	95.0 a	99.0 a	91.0 a	7.5 a	10.6 b	99.0 a	99.0 a	94.8 a	99.0 a	96.9 a
4 ATRAZINE 4 L 64.0 oz/a POST B																	
4 PROWL H20 3.8 SC 32.0 oz/a POST B																	
4 AGRIDEX 1.0 % v/v POST B																	
5 SHIELDDEX 3.33 SC 1.0 oz/a POST B							10.0 a	95.0 a	99.0 a	96.5 a	6.9 a	14.4 a	99.0 a	99.0 a	97.5 a	98.5 a	95.5 a
5 ATRAZINE 4 L 64.0 oz/a POST B																	
5 PROWL H20 3.8 SC 32.0 oz/a POST B																	
5 AGRIDEX 1.0 % v/v POST B																	
6 REVULIN Q 51.2 DG 3.5 oz/a POST B							2.5 c	95.0 a	99.0 a	93.4 a	7.5 a	1.9 c	99.0 a	99.0 a	98.5 a	99.0 a	95.5 a
6 ATRAZINE 4 L 64.0 oz/a POST B																	
6 PROWL H20 3.8 SC 32.0 oz/a POST B																	
6 AGRIDEX 1.0 % v/v POST B																	
LSD P=.10							1.41	1.27	.	6.50	5.33	2.22	.	2.73	5.88	0.73	1.77
Standard Deviation							1.61	1.44	0.00	7.41	6.08	2.53	0.00	3.12	6.71	0.83	2.02
CV							46.95	1.83	0.00	8.69	114.36	50.55	0.00	3.67	7.67	0.92	2.53
TABLE OF A (PRE) B (POST) MEANS																	
1 NO PRE							0.0 -	0.0 -	0.0 b	0.0 d	0.0 -	0.0 f	0.0 b	0.0 c	0.0 c	0.0 c	0.0 -
1 NO POST																	
2 WARRANT 3 ME 48.0 oz/a PRE A							0.0 -	0.0 -	99.0 a	81.3 c	0.0 -	0.0 f	99.0 a	30.0 b	83.8 b	97.0 b	0.0 -
1 NO PRE							3.8 -	95.0 -	99.0 a	90.0 abc	2.5 -	2.5 de	99.0 a	99.0 a	91.0 ab	99.0 a	96.0 -
2 CALLISTO 4 SC 3.0 oz/a POST B																	
2 ATRAZINE 4 L 64.0 oz/a POST B																	
2 PROWL H20 3.8 SC 32.0 oz/a POST B																	
2 AGRIDEX 1.0 % v/v POST B																	

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.

University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES WITH PROWL BUT NO ROUNDUP OR LIBERTY																	
Trial ID:		CN-02-23		Study Dir.:													
Location:		PONDER FARM		Investigator:		Eric P. Prostko											
Weed Code						Zeama		Rapra		Amapa		Agrass					
Crop Code						Zeama		Zeama		Amapa		Rapra					
Part Rated						Bleaching %		Control %		Control %		Control %					
Rating Data Type						Apr-20-23		Apr-20-23		Apr-20-23		Apr-20-23					
Rating Unit						May-2-23		May-2-23		May-2-23		May-2-23					
Rating Date						Jun-13-23		Jun-13-23		Jun-13-23		Jun-13-23					
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Stg	Appl Code	11	12	13	14	15	16	17	18	19	20	21
2	WARRANT	3 ME		48.0 oz/a	PRE	A	2.5 -	95.0 -	99.0 a	97.0 a	2.5 -	1.3 ef	99.0 a	99.0 a	96.8 a	99.0 a	96.0 -
2	CALLISTO	4 SC		3.0 oz/a	POST	B											
2	ATRAZINE	4 L		64.0 oz/a	POST	B											
2	PROWL H20	3.8 SC		32.0 oz/a	POST	B											
2	AGRIDEX			1.0 % v/v	POST	B											
1	NO PRE						0.0 -	92.5 -	99.0 a	95.5 ab	11.3 -	2.5 de	99.0 a	99.0 a	98.0 a	99.0 a	96.0 -
3	LAUDIS	3.5 SC		3.0 oz/a	POST	B											
3	ATRAZINE	4 L		64.0 oz/a	POST	B											
3	PROWL H20	3.8 SC		32.0 oz/a	POST	B											
3	AGRIDEX			1.0 % v/v	POST	B											
2	WARRANT	3 ME		48.0 oz/a	PRE	A	1.3 -	95.0 -	99.0 a	98.0 a	3.8 -	0.0 f	99.0 a	99.0 a	98.0 a	99.0 a	95.0 -
3	LAUDIS	3.5 SC		3.0 oz/a	POST	B											
3	ATRAZINE	4 L		64.0 oz/a	POST	B											
3	PROWL H20	3.8 SC		32.0 oz/a	POST	B											
3	AGRIDEX			1.0 % v/v	POST	B											
1	NO PRE						3.8 -	95.0 -	99.0 a	86.0 bc	10.0 -	8.8 c	99.0 a	99.0 a	93.5 a	99.0 a	96.8 -
4	IMPACT	2.8 SC		1.0 oz/a	POST	B											
4	ATRAZINE	4 L		64.0 oz/a	POST	B											
4	PROWL H20	3.8 SC		32.0 oz/a	POST	B											
4	AGRIDEX			1.0 % v/v	POST	B											
2	WARRANT	3 ME		48.0 oz/a	PRE	A	5.0 -	95.0 -	99.0 a	96.0 ab	5.0 -	12.5 b	99.0 a	99.0 a	96.0 a	99.0 a	97.0 -
4	IMPACT	2.8 SC		1.0 oz/a	POST	B											
4	ATRAZINE	4 L		64.0 oz/a	POST	B											
4	PROWL H20	3.8 SC		32.0 oz/a	POST	B											
4	AGRIDEX			1.0 % v/v	POST	B											
1	NO PRE						10.0 -	95.0 -	99.0 a	95.0 ab	7.5 -	13.8 ab	99.0 a	99.0 a	97.0 a	99.0 a	96.0 -
5	SHIELDDEX	3.33 SC		1.0 oz/a	POST	B											
5	ATRAZINE	4 L		64.0 oz/a	POST	B											
5	PROWL H20	3.8 SC		32.0 oz/a	POST	B											
5	AGRIDEX			1.0 % v/v	POST	B											
2	WARRANT	3 ME		48.0 oz/a	PRE	A	10.0 -	95.0 -	99.0 a	98.0 a	6.3 -	15.0 a	99.0 a	99.0 a	98.0 a	98.0 ab	95.0 -
5	SHIELDDEX	3.33 SC		1.0 oz/a	POST	B											
5	ATRAZINE	4 L		64.0 oz/a	POST	B											
5	PROWL H20	3.8 SC		32.0 oz/a	POST	B											
5	AGRIDEX			1.0 % v/v	POST	B											
1	NO PRE						1.3 -	95.0 -	99.0 a	91.0 abc	10.0 -	3.8 d	99.0 a	99.0 a	98.0 a	99.0 a	96.0 -
6	REVULIN Q	51.2 DG		3.5 oz/a	POST	B											
6	ATRAZINE	4 L		64.0 oz/a	POST	B											
6	PROWL H20	3.8 SC		32.0 oz/a	POST	B											
6	AGRIDEX			1.0 % v/v	POST	B											
2	WARRANT	3 ME		48.0 oz/a	PRE	A	3.8 -	95.0 -	99.0 a	95.8 ab	5.0 -	0.0 f	99.0 a	99.0 a	99.0 a	99.0 a	95.0 -
6	REVULIN Q	51.2 DG		3.5 oz/a	POST	B											
6	ATRAZINE	4 L		64.0 oz/a	POST	B											
6	PROWL H20	3.8 SC		32.0 oz/a	POST	B											
6	AGRIDEX			1.0 % v/v	POST	B											
LSD P=.10							2.39	1.79	.	10.15	6.63	2.40	.	3.87	9.03	1.03	2.33
Standard Deviation							1.93	1.44	0.00	8.19	5.35	1.94	0.00	3.12	7.28	0.83	1.88
CV							56.07	1.83	0.00	9.60	100.62	38.73	0.00	3.67	8.33	0.92	2.35

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.

University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES
 WITH PROWL BUT NO ROUNDUP OR LIBERTY
 Trial ID: CN-02-23 Study Dir.:
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code	Agrass	Amapa	Agrass	TOTAL WEED	----- ZEAMA PLOT, - YIELD	----- ZEAMA PLOT, - YIELD
Crop Code	Control %	Control %	Control %	Cover %	LBS/PLOT	BU/A
Part Rated	Jun-13-23	Aug-18-23	Aug-18-23	Aug-18-23	Sep-5-23	Sep-5-23
Rating Data Type						
Rating Unit						
Rating Date						
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Stg	Appl Code
				Unit		
TABLE OF R MEANS						
Replicate 1	72.4	89.8	53.3	48.3	48.0	249
Replicate 2	83.7	90.8	66.7	39.6	49.9	259
Replicate 3	76.3	90.3	50.8	52.9	48.6	252
Replicate 4	68.3	90.8	49.6	54.2	50.2	260
TABLE OF A (PRE) MEANS						
1 NO PRE	66.9 b	82.2 b	45.6 b	58.3 a	48.5 b	252 b
2 WARRANT 3 ME 48.0 oz/a PRE A	83.5 a	98.5 a	64.6 a	39.2 b	49.8 a	259 a
LSD P=.10	6.06	0.39	9.65	14.34	0.69	3.6
Standard Deviation	8.91	0.58	14.21	21.11	1.01	5.2
CV	11.86	0.64	25.79	43.31	2.06	2.1
TABLE OF B (POST) MEANS						
1 NO POST	21.3 d	49.0 c	11.9 c	86.3 a	45.8 d	237 d
2 CALLISTO 4 SC 3.0 oz/a POST B	78.1 bc	99.0 a	48.1 b	54.4 b	49.1 bc	255 bc
2 ATRAZINE 4 L 64.0 oz/a POST B						
2 PROWL H20 3.8 SC 32.0 oz/a POST B						
2 AGRIDEX 1.0 % v/v POST B						
3 LAUDIS 3.5 SC 3.0 oz/a POST B	91.3 ab	98.6 ab	66.3 a	38.1 c	51.4 a	267 a
3 ATRAZINE 4 L 64.0 oz/a POST B						
3 PROWL H20 3.8 SC 32.0 oz/a POST B						
3 AGRIDEX 1.0 % v/v POST B						
4 IMPACT 2.8 SC 1.0 oz/a POST B	75.0 c	99.0 a	52.5 b	49.4 b	48.4 c	251 c
4 ATRAZINE 4 L 64.0 oz/a POST B						
4 PROWL H20 3.8 SC 32.0 oz/a POST B						
4 AGRIDEX 1.0 % v/v POST B						
5 SHIELDDEX 3.33 SC 1.0 oz/a POST B	93.1 a	98.5 ab	73.8 a	33.8 c	49.8 abc	258 abc
5 ATRAZINE 4 L 64.0 oz/a POST B						
5 PROWL H20 3.8 SC 32.0 oz/a POST B						
5 AGRIDEX 1.0 % v/v POST B						
6 REVULIN Q 51.2 DG 3.5 oz/a POST B	92.3 ab	98.1 b	78.1 a	30.6 c	50.6 ab	263 ab
6 ATRAZINE 4 L 64.0 oz/a POST B						
6 PROWL H20 3.8 SC 32.0 oz/a POST B						
6 AGRIDEX 1.0 % v/v POST B						
LSD P=.10	14.91	0.83	12.71	9.24	2.25	11.7
Standard Deviation	17.01	0.95	14.49	10.54	2.56	13.3
CV	22.63	1.05	26.30	21.62	5.22	5.2
TABLE OF A (PRE) B (POST) MEANS						
1 NO PRE	0.0 -	0.0 b	0.0 -	98.8 -	45.0 -	233 -
1 NO POST						
2 WARRANT 3 ME 48.0 oz/a PRE A	42.5 -	98.0 a	23.8 -	73.8 -	46.5 -	241 -
1 NO PRE	72.5 -	99.0 a	32.5 -	65.0 -	48.7 -	253 -
2 CALLISTO 4 SC 3.0 oz/a POST B						
2 ATRAZINE 4 L 64.0 oz/a POST B						
2 PROWL H20 3.8 SC 32.0 oz/a POST B						
2 AGRIDEX 1.0 % v/v POST B						

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.

University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES
 WITH PROWL BUT NO ROUNDUP OR LIBERTY
 Trial ID: CN-02-23 Study Dir.:
 Location: PONDER FARM Investigator: Eric P. Prostko

							Agrass	Amapa	Agrass	TOTAL	-----	-----
							Control	Control	Control	Cover	ZEAMA	ZEAMA
							%	%	%	%	PLOT, -	PLOT, -
							Jun-13-23	Aug-18-23	Aug-18-23	Aug-18-23	YIELD	YIELD
											LBS/PLOT	BU/A
											Sep-5-23	Sep-5-23
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Stg	Appl Code	22	23	24	25	26	27
2	WARRANT	3 ME		48.0 oz/a	PRE	A	83.8 -	99.0 a	63.8 -	43.8 -	49.5 -	257 -
2	CALLISTO	4 SC		3.0 oz/a	POST	B						
2	ATRAZINE	4 L		64.0 oz/a	POST	B						
2	PROWL H20	3.8 SC		32.0 oz/a	POST	B						
2	AGRIDEX			1.0 % v/v	POST	B						
1	NO PRE						87.5 -	98.3 a	53.8 -	47.5 -	51.5 -	267 -
3	LAUDIS	3.5 SC		3.0 oz/a	POST	B						
3	ATRAZINE	4 L		64.0 oz/a	POST	B						
3	PROWL H20	3.8 SC		32.0 oz/a	POST	B						
3	AGRIDEX			1.0 % v/v	POST	B						
2	WARRANT	3 ME		48.0 oz/a	PRE	A	95.0 -	99.0 a	78.8 -	28.8 -	51.3 -	266 -
3	LAUDIS	3.5 SC		3.0 oz/a	POST	B						
3	ATRAZINE	4 L		64.0 oz/a	POST	B						
3	PROWL H20	3.8 SC		32.0 oz/a	POST	B						
3	AGRIDEX			1.0 % v/v	POST	B						
1	NO PRE						61.3 -	99.0 a	35.0 -	66.3 -	47.0 -	244 -
4	IMPACT	2.8 SC		1.0 oz/a	POST	B						
4	ATRAZINE	4 L		64.0 oz/a	POST	B						
4	PROWL H20	3.8 SC		32.0 oz/a	POST	B						
4	AGRIDEX			1.0 % v/v	POST	B						
2	WARRANT	3 ME		48.0 oz/a	PRE	A	88.8 -	99.0 a	70.0 -	32.5 -	49.8 -	258 -
4	IMPACT	2.8 SC		1.0 oz/a	POST	B						
4	ATRAZINE	4 L		64.0 oz/a	POST	B						
4	PROWL H20	3.8 SC		32.0 oz/a	POST	B						
4	AGRIDEX			1.0 % v/v	POST	B						
1	NO PRE						92.5 -	99.0 a	76.3 -	33.8 -	47.5 -	246 -
5	SHIELDDEX	3.33 SC		1.0 oz/a	POST	B						
5	ATRAZINE	4 L		64.0 oz/a	POST	B						
5	PROWL H20	3.8 SC		32.0 oz/a	POST	B						
5	AGRIDEX			1.0 % v/v	POST	B						
2	WARRANT	3 ME		48.0 oz/a	PRE	A	93.8 -	98.0 a	71.3 -	33.8 -	52.0 -	270 -
5	SHIELDDEX	3.33 SC		1.0 oz/a	POST	B						
5	ATRAZINE	4 L		64.0 oz/a	POST	B						
5	PROWL H20	3.8 SC		32.0 oz/a	POST	B						
5	AGRIDEX			1.0 % v/v	POST	B						
1	NO PRE						87.5 -	98.0 a	76.3 -	38.8 -	51.3 -	266 -
6	REVULIN Q	51.2 DG		3.5 oz/a	POST	B						
6	ATRAZINE	4 L		64.0 oz/a	POST	B						
6	PROWL H20	3.8 SC		32.0 oz/a	POST	B						
6	AGRIDEX			1.0 % v/v	POST	B						
2	WARRANT	3 ME		48.0 oz/a	PRE	A	97.0 -	98.3 a	80.0 -	22.5 -	50.0 -	259 -
6	REVULIN Q	51.2 DG		3.5 oz/a	POST	B						
6	ATRAZINE	4 L		64.0 oz/a	POST	B						
6	PROWL H20	3.8 SC		32.0 oz/a	POST	B						
6	AGRIDEX			1.0 % v/v	POST	B						
LSD P=.10							24.28	1.66	20.80	16.94	3.63	18.8
Standard Deviation							19.58	1.34	16.78	13.66	2.90	15.0
CV							26.05	1.48	30.45	28.03	5.90	5.9

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.

University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES
 WITH PROWL BUT NO ROUNDUP OR LIBERTY
 Trial ID: CN-02-23 Study Dir.:
 Location: PONDER FARM Investigator: Eric P. Prostko

COMPLETE FACTORIAL AOV For ----- ZEAMA STUNTING % Apr-4-23 (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	0.000000				
R	3	0.000000	0.000000	0.000	1.0000	
A	1	0.000000	0.000000	0.000	1.0000	
RA	3	0.000000	0.000000			
B	5	0.000000	0.000000	0.000	1.0000	
RB	15	0.000000	0.000000			
AB	5	0.000000	0.000000	0.000	1.0000	
RAB	15	0.000000	0.000000			

COMPLETE FACTORIAL AOV For RAPRA ----- Control % Apr-4-23 (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	7791.666667				
R	3	741.666667	247.222222	6.642	0.0045	
A	1	4800.000000	4800.000000	15.709	0.0287	11.9
RA	3	916.666667	305.555556			
B	5	66.666667	13.333333	0.343	0.8789	5.5
RB	15	583.333333	38.888889			
AB	5	125.000000	25.000000	0.672	0.6511	7.6
RAB	15	558.333333	37.222222			

COMPLETE FACTORIAL AOV For AGRASS ----- Control % Apr-4-23 (Data Column 3)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	95886.812500				
R	3	941.229167	313.743056	1.371	0.2898	
A	1	86106.020833	86106.020833	128.278	0.0015	17.6
RA	3	2013.729167	671.243056			
B	5	878.437500	175.687500	1.633	0.2115	9.1
RB	15	1613.645833	107.576389			
AB	5	900.104167	180.020833	0.786	0.5753	18.8
RAB	15	3433.645833	228.909722			

COMPLETE FACTORIAL AOV For Zeama Stunting % Apr-13-23 (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	0.000000				
R	3	0.000000	0.000000	0.000	1.0000	
A	1	0.000000	0.000000	0.000	1.0000	
RA	3	0.000000	0.000000			
B	5	0.000000	0.000000	0.000	1.0000	
RB	15	0.000000	0.000000			
AB	5	0.000000	0.000000	0.000	1.0000	
RAB	15	0.000000	0.000000			

COMPLETE FACTORIAL AOV For Rapra Control % Apr-13-23 (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	0.000000				
R	3	0.000000	0.000000	0.000	1.0000	
A	1	0.000000	0.000000	0.000	1.0000	
RA	3	0.000000	0.000000			
B	5	0.000000	0.000000	0.000	1.0000	
RB	15	0.000000	0.000000			
AB	5	0.000000	0.000000	0.000	1.0000	
RAB	15	0.000000	0.000000			

COMPLETE FACTORIAL AOV For Amapa Control % Apr-13-23 (Data Column 6)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	117612.000000				
R	3	0.000000	0.000000	0.000	1.0000	
A	1	117612.000000	117612.000000	0.000	1.0000	
RA	3	0.000000	0.000000			
B	5	0.000000	0.000000	0.000	1.0000	
RB	15	0.000000	0.000000			
AB	5	0.000000	0.000000	0.000	1.0000	
RAB	15	0.000000	0.000000			

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.

University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES
 WITH PROWL BUT NO ROUNDUP OR LIBERTY
 Trial ID: CN-02-23 Study Dir.:
 Location: PONDER FARM Investigator: Eric P. Prostko

COMPLETE FACTORIAL AOV For Agrass Control % Apr-13-23 (Data Column 7)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	95286.812500				
R	3	200.895833	66.965278	1.222	0.3361	
A	1	92664.187500	92664.187500	1383.765	0.0001	5.6
RA	3	200.895833	66.965278			
B	5	288.437500	57.687500	1.053	0.4238	6.5
RB	15	821.979167	54.798611			
AB	5	288.437500	57.687500	1.053	0.4238	9.2
RAB	15	821.979167	54.798611			

COMPLETE FACTORIAL AOV For Lamam Control % Apr-13-23 (Data Column 8)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	117612.000000				
R	3	0.000000	0.000000	0.000	1.0000	
A	1	117612.000000	117612.000000	0.000	1.0000	
RA	3	0.000000	0.000000			
B	5	0.000000	0.000000	0.000	1.0000	
RB	15	0.000000	0.000000			
AB	5	0.000000	0.000000	0.000	1.0000	
RAB	15	0.000000	0.000000			

COMPLETE FACTORIAL AOV For Zeama Stunting % Apr-20-23 (Data Column 9)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	1661.979167				
R	3	205.729167	68.576389	2.673	0.0849	
A	1	0.520833	0.520833	0.023	0.8893	3.2
RA	3	68.229167	22.743056			
B	5	496.354167	99.270833	2.994	0.0453	5.0
RB	15	497.395833	33.159722			
AB	5	8.854167	1.770833	0.069	0.9960	6.3
RAB	15	384.895833	25.659722			

COMPLETE FACTORIAL AOV For Zeama Chlorosis % Apr-20-23 (Data Column 10)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	841.666667				
R	3	50.000000	16.666667	0.755	0.5366	
A	1	2.083333	2.083333	1.000	0.3910	1.0
RA	3	6.250000	2.083333			
B	5	141.666667	28.333333	1.417	0.2743	3.9
RB	15	300.000000	20.000000			
AB	5	10.416667	2.083333	0.094	0.9918	5.8
RAB	15	331.250000	22.083333			

COMPLETE FACTORIAL AOV For Zeama Bleaching % Apr-20-23 (Data Column 11)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	657.812500				
R	3	14.062500	4.687500	1.262	0.3230	
A	1	4.687500	4.687500	1.421	0.3189	1.2
RA	3	9.895833	3.298611			
B	5	517.187500	103.437500	39.720	0.0001	1.4
RB	15	39.062500	2.604167			
AB	5	17.187500	3.437500	0.925	0.4917	2.4
RAB	15	55.729167	3.715278			

COMPLETE FACTORIAL AOV For Rapra Control % Apr-20-23 (Data Column 12)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	59947.916667				
R	3	6.250000	2.083333	1.000	0.4199	
A	1	2.083333	2.083333	1.000	0.3910	1.0
RA	3	6.250000	2.083333			
B	5	59860.416667	11972.083333	5746.600	0.0001	1.3
RB	15	31.250000	2.083333			
AB	5	10.416667	2.083333	1.000	0.4509	1.8
RAB	15	31.250000	2.083333			

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University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES WITH PROWL BUT NO ROUNDUP OR LIBERTY			
Trial ID:	CN-02-23	Study Dir.:	
Location:	PONDER FARM	Investigator:	Eric P. Prostko

COMPLETE FACTORIAL AOV For Amapa Control % Apr-20-23 (Data Column 13)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	35937.000000				
R	3	0.000000	0.000000	0.000	1.0000	
A	1	3267.000000	3267.000000	0.000	1.0000	.
RA	3	0.000000	0.000000			
B	5	16335.000000	3267.000000	0.000	1.0000	.
RB	15	0.000000	0.000000			
AB	5	16335.000000	3267.000000	0.000	1.0000	.
RAB	15	0.000000	0.000000			

COMPLETE FACTORIAL AOV For Agrass Control % Apr-20-23 (Data Column 14)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	35081.916667				
R	3	289.583333	96.527778	1.440	0.2705	
A	1	3924.083333	3924.083333	250.918	0.0005	2.7
RA	3	46.916667	15.638889			
B	5	19338.666667	3867.733333	70.351	0.0001	6.5
RB	15	824.666667	54.977778			
AB	5	9652.666667	1930.533333	28.804	0.0001	10.1
RAB	15	1005.333333	67.022222			

COMPLETE FACTORIAL AOV For Zeama Stunting % May-2-23 (Data Column 15)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	1820.312500				
R	3	155.729167	51.909722	1.817	0.1874	
A	1	117.187500	117.187500	8.133	0.0650	2.6
RA	3	43.229167	14.409722			
B	5	423.437500	84.687500	2.294	0.0976	5.3
RB	15	553.645833	36.909722			
AB	5	98.437500	19.687500	0.689	0.6394	6.6
RAB	15	428.645833	28.576389			

COMPLETE FACTORIAL AOV For Zeama Bleaching % May-2-23 (Data Column 16)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	1750.000000				
R	3	79.166667	26.388889	7.037	0.0035	
A	1	2.083333	2.083333	0.333	0.6042	1.7
RA	3	18.750000	6.250000			
B	5	1425.000000	285.000000	44.609	0.0001	2.2
RB	15	95.833333	6.388889			
AB	5	72.916667	14.583333	3.889	0.0185	2.4
RAB	15	56.250000	3.750000			

COMPLETE FACTORIAL AOV For Amapa Control % May-2-23 (Data Column 17)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	35937.000000				
R	3	0.000000	0.000000	0.000	1.0000	
A	1	3267.000000	3267.000000	0.000	1.0000	.
RA	3	0.000000	0.000000			
B	5	16335.000000	3267.000000	0.000	1.0000	.
RB	15	0.000000	0.000000			
AB	5	16335.000000	3267.000000	0.000	1.0000	.
RAB	15	0.000000	0.000000			

COMPLETE FACTORIAL AOV For Rapra Control % May-2-23 (Data Column 18)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	49190.000000				
R	3	29.166667	9.722222	1.000	0.4199	
A	1	300.000000	300.000000	30.857	0.0115	2.1
RA	3	29.166667	9.722222			
B	5	47040.000000	9408.000000	967.680	0.0001	2.7
RB	15	145.833333	9.722222			
AB	5	1500.000000	300.000000	30.857	0.0001	3.9
RAB	15	145.833333	9.722222			

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University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES
 WITH PROWL BUT NO ROUNDUP OR LIBERTY
 Trial ID: CN-02-23 Study Dir.:
 Location: PONDER FARM Investigator: Eric P. Prostko

COMPLETE FACTORIAL AOV For Agrass Control % May-2-23 (Data Column 19)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	36073.666667				
R	3	265.500000	88.500000	1.668	0.2163	
A	1	2945.333333	2945.333333	49.501	0.0059	5.2
RA	3	178.500000	59.500000			
B	5	20048.416667	4009.683333	89.137	0.0001	5.9
RB	15	674.750000	44.983333			
AB	5	11165.416667	2233.083333	42.094	0.0001	9.0
RAB	15	795.750000	53.050000			

COMPLETE FACTORIAL AOV For Amapa Control % Jun-13-23 (Data Column 20)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	35784.000000				
R	3	3.666667	1.222222	1.774	0.1952	
A	1	3072.000000	3072.000000	2513.455	0.0001	0.8
RA	3	3.666667	1.222222			
B	5	16936.000000	3387.200000	4916.903	0.0001	0.7
RB	15	10.333333	0.688889			
AB	5	15748.000000	3149.600000	4572.000	0.0001	1.0
RAB	15	10.333333	0.688889			

COMPLETE FACTORIAL AOV For Rapra Control % Jun-13-23 (Data Column 21)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	61434.479167				
R	3	21.229167	7.076389	2.010	0.1559	
A	1	2.520833	2.520833	4.840	0.1152	0.5
RA	3	1.562500	0.520833			
B	5	61291.604167	12258.320833	3007.152	0.0001	1.8
RB	15	61.145833	4.076389			
AB	5	3.604167	0.720833	0.205	0.9554	2.3
RAB	15	52.812500	3.520833			

COMPLETE FACTORIAL AOV For Agrass Control % Jun-13-23 (Data Column 22)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	47850.666667				
R	3	1532.166667	510.722222	1.332	0.3013	
A	1	3300.083333	3300.083333	41.525	0.0076	6.1
RA	3	238.416667	79.472222			
B	5	30310.416667	6062.083333	20.942	0.0001	14.9
RB	15	4342.083333	289.472222			
AB	5	2374.166667	474.833333	1.238	0.3400	24.3
RAB	15	5753.333333	383.555556			

COMPLETE FACTORIAL AOV For Amapa Control % Aug-18-23 (Data Column 23)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	35699.250000				
R	3	8.250000	2.750000	1.542	0.2447	
A	1	3201.333333	3201.333333	9604.000	0.0001	0.4
RA	3	1.000000	0.333333			
B	5	16438.500000	3287.700000	3653.000	0.0001	0.8
RB	15	13.500000	0.900000			
AB	5	16009.916667	3201.983333	1795.505	0.0001	1.7
RAB	15	26.750000	1.783333			

COMPLETE FACTORIAL AOV For Agrass Control % Aug-18-23 (Data Column 24)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	40474.479167				
R	3	2226.562500	742.187500	2.637	0.0877	
A	1	4313.020833	4313.020833	21.361	0.0191	9.7
RA	3	605.729167	201.909722			
B	5	23408.854167	4681.770833	22.283	0.0001	12.7
RB	15	3151.562500	210.104167			
AB	5	2546.354167	509.270833	1.809	0.1715	20.8
RAB	15	4222.395833	281.493056			

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University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES
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 Trial ID: CN-02-23 Study Dir.:
 Location: PONDER FARM Investigator: Eric P. Prostko

COMPLETE FACTORIAL AOV For TOTAL WEED Cover % Aug-18-23 (Data Column 25)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	29875.000000				
R	3	1570.833333	523.611111	2.805	0.0755	
A	1	4408.333333	4408.333333	9.888	0.0515	14.3
RA	3	1337.500000	445.833333			
B	5	16837.500000	3367.500000	30.308	0.0001	9.2
RB	15	1666.666667	111.111111			
AB	5	1254.166667	250.833333	1.344	0.2994	16.9
RAB	15	2800.000000	186.666667			

COMPLETE FACTORIAL AOV For ----- ZEAMA PLOT YIELD LBS/PLOT Sep-5-23 (Data Column 26) Missing values in column 26 results in unbalanced data, Least Squares Analysis is preferred

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	45	472.886574				
R	3	39.951389	13.317130	1.585	0.2407	
A	1	21.780093	21.780093	21.336	0.0191	0.7
RA	3	3.062500	1.020833			
B	5	157.206019	31.441204	4.780	0.0082	2.2
RB	15	98.673611	6.578241			
AB	5	42.983796	8.596759	1.023	0.4436	3.6
RAB	13	109.229167	8.402244			

COMPLETE FACTORIAL AOV For ----- ZEAMA PLOT YIELD BU/A Sep-5-23 (Data Column 27) Missing values in column 27 results in unbalanced data, Least Squares Analysis is preferred

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	45	12731.745850				
R	3	1075.629882	358.543294	1.585	0.2407	
A	1	586.395594	586.395594	21.336	0.0191	4
RA	3	82.453116	27.484372			
B	5	4232.530978	846.506196	4.780	0.0082	12
RB	15	2656.635666	177.109044			
AB	5	1157.272801	231.454560	1.023	0.4436	19
RAB	13	2940.827813	226.217524			

Rating Unit
 % = PERCENT
ARM Action Codes
 TY1 = 5.18878276*[26]

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University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES WITH PROWL BUT NO ROUNDUP OR LIBERTY																		
Trial ID: CN-02-23		Study Dir.:																
Location: PONDER FARM		Investigator: Eric P. Prostko																
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	----- ZEAMA	RAPRA -----	AGRASS -----	Zeama	Rapra	Amapa	Agrass	Lamam	Zeama	Zeama			
						STUNTING %	Control %	Control %	Stunting %	Control %	Control %	Control %	Control %	Stunting %	Chlorosis %			
						Apr-4-23	Apr-4-23	Apr-4-23	Apr-13-23	Apr-13-23	Apr-13-23	Apr-13-23	Apr-13-23	Apr-20-23	Apr-20-23			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	Plot	1	2	3	4	5	6	7	8	9	10
1	NO PRE							101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	NO POST							211	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								309	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								404	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	0.0	0.0	0.0	0.0	0.0
2	NO PRE							102	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CALLISTO	4 SC		3.0 oz/a		POST B		209	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	ATRAZINE	4 L		64.0 oz/a		POST B		310	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	10.0
	PROWL H20	3.8 SC		32.0 oz/a		POST B		409	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	AGRIDEX			1.0 % v/v		POST B		Mean =	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	2.5
3	NO PRE							103	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	10.0
	LAUDIS	3.5 SC		3.0 oz/a		POST B		202	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0
	ATRAZINE	4 L		64.0 oz/a		POST B		304	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0
	PROWL H20	3.8 SC		32.0 oz/a		POST B		412	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	AGRIDEX			1.0 % v/v		POST B		Mean =	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	2.5
4	NO PRE							104	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	10.0
	IMPACT	2.8 SC		1.0 oz/a		POST B		205	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0
	ATRAZINE	4 L		64.0 oz/a		POST B		307	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0
	PROWL H20	3.8 SC		32.0 oz/a		POST B		408	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	AGRIDEX			1.0 % v/v		POST B		Mean =	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	5.0
5	NO PRE							105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0
	SHIELDDEX	3.33 SC		1.0 oz/a		POST B		208	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	10.0
	ATRAZINE	4 L		64.0 oz/a		POST B		306	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.0
	PROWL H20	3.8 SC		32.0 oz/a		POST B		402	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	AGRIDEX			1.0 % v/v		POST B		Mean =	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	6.3
6	WARRANT	3 ME		48.0 oz/a		PRE A		106	0.0	40.0	99.0	0.0	0.0	99.0	85.0	99.0	0.0	0.0
	NO POST							201	0.0	10.0	99.0	0.0	0.0	99.0	90.0	99.0	0.0	0.0
								302	0.0	10.0	90.0	0.0	0.0	99.0	90.0	99.0	0.0	0.0
								406	0.0	20.0	50.0	0.0	0.0	99.0	50.0	99.0	0.0	0.0
								Mean =	0.0	20.0	84.5	0.0	0.0	99.0	78.8	99.0	0.0	0.0
7	WARRANT	3 ME		48.0 oz/a		PRE A		107	0.0	30.0	99.0	0.0	0.0	99.0	85.0	99.0	5.0	10.0
	CALLISTO	4 SC		3.0 oz/a		POST B		206	0.0	10.0	95.0	0.0	0.0	99.0	95.0	99.0	0.0	0.0
	ATRAZINE	4 L		64.0 oz/a		POST B		312	0.0	30.0	95.0	0.0	0.0	99.0	95.0	99.0	10.0	0.0
	PROWL H20	3.8 SC		32.0 oz/a		POST B		407	0.0	30.0	85.0	0.0	0.0	99.0	90.0	99.0	5.0	0.0
	AGRIDEX			1.0 % v/v		POST B		Mean =	0.0	25.0	93.5	0.0	0.0	99.0	91.3	99.0	5.0	2.5
8	WARRANT	3 ME		48.0 oz/a		PRE A		108	0.0	50.0	99.0	0.0	0.0	99.0	90.0	99.0	5.0	0.0
	LAUDIS	3.5 SC		3.0 oz/a		POST B		212	0.0	20.0	95.0	0.0	0.0	99.0	99.0	99.0	10.0	0.0
	ATRAZINE	4 L		64.0 oz/a		POST B		305	0.0	0.0	65.0	0.0	0.0	99.0	80.0	99.0	15.0	0.0
	PROWL H20	3.8 SC		32.0 oz/a		POST B		403	0.0	20.0	85.0	0.0	0.0	99.0	95.0	99.0	10.0	10.0
	AGRIDEX			1.0 % v/v		POST B		Mean =	0.0	22.5	86.0	0.0	0.0	99.0	91.0	99.0	10.0	2.5
9	WARRANT	3 ME		48.0 oz/a		PRE A		109	0.0	30.0	99.0	0.0	0.0	99.0	85.0	99.0	0.0	5.0
	IMPACT	2.8 SC		1.0 oz/a		POST B		207	0.0	20.0	95.0	0.0	0.0	99.0	90.0	99.0	15.0	10.0
	ATRAZINE	4 L		64.0 oz/a		POST B		311	0.0	10.0	95.0	0.0	0.0	99.0	95.0	99.0	5.0	0.0
	PROWL H20	3.8 SC		32.0 oz/a		POST B		410	0.0	20.0	95.0	0.0	0.0	99.0	95.0	99.0	10.0	5.0
	AGRIDEX			1.0 % v/v		POST B		Mean =	0.0	20.0	96.0	0.0	0.0	99.0	91.3	99.0	7.5	5.0

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WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES WITH PROWL BUT NO ROUNDUP OR LIBERTY																		
Trial ID:		CN-02-23		Study Dir.:														
Location:		PONDER FARM		Investigator:		Eric P. Prostko												
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	----- ZEAMA	RAPRA -----	AGRASS -----	Zeama	Rapra	Amapa	Agrass	Lamam	Zeama	Zeama			
						STUNTING %	Control %	Control %	Stunting %	Control %	Control %	Control %	Control %	Stunting %	Chlorosis %			
						Apr-4-23	Apr-4-23	Apr-4-23	Apr-13-23	Apr-13-23	Apr-13-23	Apr-13-23	Apr-13-23	Apr-20-23	Apr-20-23			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	Plot	1	2	3	4	5	6	7	8	9	10
10	WARRANT	3 ME		48.0 oz/a	PRE	A		110	0.0	20.0	99.0	0.0	0.0	99.0	90.0	99.0	5.0	10.0
	SHIELDDEX	3.33 SC		1.0 oz/a	POST	B		203	0.0	20.0	95.0	0.0	0.0	99.0	95.0	99.0	15.0	0.0
	ATRAZINE	4 L		64.0 oz/a	POST	B		301	0.0	10.0	65.0	0.0	0.0	99.0	85.0	99.0	10.0	5.0
	PROWL H20	3.8 SC		32.0 oz/a	POST	B		405	0.0	20.0	50.0	0.0	0.0	99.0	65.0	99.0	5.0	0.0
	AGRIDEX			1.0 % v/v	POST	B												
								Mean =	0.0	17.5	77.3	0.0	0.0	99.0	83.8	99.0	8.8	3.8
11	NO PRE							111	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	REVULIN Q	51.2 DG		3.5 oz/a	POST	B		204	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	0.0
	ATRAZINE	4 L		64.0 oz/a	POST	B		308	0.0	10.0	65.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0
	PROWL H20	3.8 SC		32.0 oz/a	POST	B		401	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0
	AGRIDEX			1.0 % v/v	POST	B												
								Mean =	0.0	2.5	16.3	0.0	0.0	0.0	0.0	0.0	7.5	2.5
12	WARRANT	3 ME		48.0 oz/a	PRE	A		112	0.0	30.0	99.0	0.0	0.0	99.0	95.0	99.0	5.0	0.0
	REVULIN Q	51.2 DG		3.5 oz/a	POST	B		210	0.0	10.0	95.0	0.0	0.0	99.0	90.0	99.0	10.0	5.0
	ATRAZINE	4 L		64.0 oz/a	POST	B		303	0.0	10.0	65.0	0.0	0.0	99.0	85.0	99.0	10.0	5.0
	PROWL H20	3.8 SC		32.0 oz/a	POST	B		411	0.0	20.0	90.0	0.0	0.0	99.0	95.0	99.0	0.0	0.0
	AGRIDEX			1.0 % v/v	POST	B												
								Mean =	0.0	17.5	87.3	0.0	0.0	99.0	91.3	99.0	6.3	2.5

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WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES WITH PROWL BUT NO ROUNDUP OR LIBERTY																		
Trial ID: CN-02-23			Study Dir.: Location: PONDER FARM Investigator: Eric P. Prostko															
Weed Code			Zeama		Rapra		Amapa		Agrass		Amapa							
Crop Code			Zeama		Rapra		Amapa		Agrass		Amapa							
Part Rated			Bleaching %		Control %		Control %		Control %		Control %							
Rating Data Type			Apr-20-23		Apr-20-23		Apr-20-23		Apr-20-23		May-2-23							
Rating Unit			Apr-20-23		Apr-20-23		Apr-20-23		Apr-20-23		May-2-23							
Rating Date			Apr-20-23		Apr-20-23		Apr-20-23		Apr-20-23		May-2-23							
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	Plot	11	12	13	14	15	16	17	18	19	20
1	NO PRE							101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	NO POST							211	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								309	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								404	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	0.0	0.0	0.0	0.0	0.0
2	NO PRE							102	0.0	95.0	99.0	90.0	0.0	0.0	99.0	99.0	95.0	99.0
	CALLISTO	4 SC		3.0 oz/a		POST B		209	5.0	95.0	99.0	95.0	0.0	5.0	99.0	99.0	99.0	99.0
	ATRAZINE	4 L		64.0 oz/a		POST B		310	5.0	95.0	99.0	85.0	10.0	5.0	99.0	99.0	80.0	99.0
	PROWL H20	3.8 SC		32.0 oz/a		POST B		409	5.0	95.0	99.0	90.0	0.0	0.0	99.0	99.0	90.0	99.0
	AGRIDEX			1.0 % v/v		POST B		Mean =	3.8	95.0	99.0	90.0	2.5	2.5	99.0	99.0	91.0	99.0
3	NO PRE							103	0.0	85.0	99.0	85.0	20.0	5.0	99.0	99.0	95.0	99.0
	LAUDIS	3.5 SC		3.0 oz/a		POST B		202	0.0	95.0	99.0	99.0	0.0	0.0	99.0	99.0	99.0	99.0
	ATRAZINE	4 L		64.0 oz/a		POST B		304	0.0	95.0	99.0	99.0	20.0	5.0	99.0	99.0	99.0	99.0
	PROWL H20	3.8 SC		32.0 oz/a		POST B		412	0.0	95.0	99.0	99.0	5.0	0.0	99.0	99.0	99.0	99.0
	AGRIDEX			1.0 % v/v		POST B		Mean =	0.0	92.5	99.0	95.5	11.3	2.5	99.0	99.0	98.0	99.0
4	NO PRE							104	0.0	95.0	99.0	80.0	20.0	5.0	99.0	99.0	90.0	99.0
	IMPACT	2.8 SC		1.0 oz/a		POST B		205	5.0	95.0	99.0	90.0	5.0	15.0	99.0	99.0	95.0	99.0
	ATRAZINE	4 L		64.0 oz/a		POST B		307	5.0	95.0	99.0	99.0	10.0	10.0	99.0	99.0	99.0	99.0
	PROWL H20	3.8 SC		32.0 oz/a		POST B		408	5.0	95.0	99.0	75.0	5.0	5.0	99.0	99.0	90.0	99.0
	AGRIDEX			1.0 % v/v		POST B		Mean =	3.8	95.0	99.0	86.0	10.0	8.8	99.0	99.0	93.5	99.0
5	NO PRE							105	10.0	95.0	99.0	95.0	10.0	10.0	99.0	99.0	99.0	99.0
	SHIELDX	3.33 SC		1.0 oz/a		POST B		208	10.0	95.0	99.0	95.0	10.0	15.0	99.0	99.0	95.0	99.0
	ATRAZINE	4 L		64.0 oz/a		POST B		306	10.0	95.0	99.0	95.0	10.0	15.0	99.0	99.0	95.0	99.0
	PROWL H20	3.8 SC		32.0 oz/a		POST B		402	10.0	95.0	99.0	95.0	0.0	15.0	99.0	99.0	99.0	99.0
	AGRIDEX			1.0 % v/v		POST B		Mean =	10.0	95.0	99.0	95.0	7.5	13.8	99.0	99.0	97.0	99.0
6	WARRANT	3 ME		48.0 oz/a		PRE A		106	0.0	0.0	99.0	90.0	0.0	0.0	99.0	45.0	95.0	99.0
	NO POST							201	0.0	0.0	99.0	95.0	0.0	0.0	99.0	25.0	95.0	99.0
								302	0.0	0.0	99.0	90.0	0.0	0.0	99.0	20.0	95.0	99.0
								406	0.0	0.0	99.0	50.0	0.0	0.0	99.0	30.0	50.0	95.0
								Mean =	0.0	0.0	99.0	81.3	0.0	0.0	99.0	30.0	83.8	97.0
7	WARRANT	3 ME		48.0 oz/a		PRE A		107	0.0	95.0	99.0	95.0	5.0	0.0	99.0	99.0	99.0	99.0
	CALLISTO	4 SC		3.0 oz/a		POST B		206	0.0	95.0	99.0	99.0	0.0	5.0	99.0	99.0	99.0	99.0
	ATRAZINE	4 L		64.0 oz/a		POST B		312	5.0	95.0	99.0	99.0	5.0	0.0	99.0	99.0	99.0	99.0
	PROWL H20	3.8 SC		32.0 oz/a		POST B		407	5.0	95.0	99.0	95.0	0.0	0.0	99.0	99.0	90.0	99.0
	AGRIDEX			1.0 % v/v		POST B		Mean =	2.5	95.0	99.0	97.0	2.5	1.3	99.0	99.0	96.8	99.0
8	WARRANT	3 ME		48.0 oz/a		PRE A		108	0.0	95.0	99.0	99.0	5.0	0.0	99.0	99.0	99.0	99.0
	LAUDIS	3.5 SC		3.0 oz/a		POST B		212	5.0	95.0	99.0	99.0	0.0	0.0	99.0	99.0	99.0	99.0
	ATRAZINE	4 L		64.0 oz/a		POST B		305	0.0	95.0	99.0	95.0	10.0	0.0	99.0	99.0	99.0	99.0
	PROWL H20	3.8 SC		32.0 oz/a		POST B		403	0.0	95.0	99.0	99.0	0.0	0.0	99.0	99.0	95.0	99.0
	AGRIDEX			1.0 % v/v		POST B		Mean =	1.3	95.0	99.0	98.0	3.8	0.0	99.0	99.0	98.0	99.0
9	WARRANT	3 ME		48.0 oz/a		PRE A		109	5.0	95.0	99.0	95.0	0.0	10.0	99.0	99.0	95.0	99.0
	IMPACT	2.8 SC		1.0 oz/a		POST B		207	5.0	95.0	99.0	95.0	10.0	15.0	99.0	99.0	95.0	99.0
	ATRAZINE	4 L		64.0 oz/a		POST B		311	5.0	95.0	99.0	99.0	0.0	15.0	99.0	99.0	95.0	99.0
	PROWL H20	3.8 SC		32.0 oz/a		POST B		410	5.0	95.0	99.0	95.0	10.0	10.0	99.0	99.0	99.0	99.0
	AGRIDEX			1.0 % v/v		POST B		Mean =	5.0	95.0	99.0	96.0	5.0	12.5	99.0	99.0	96.0	99.0

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WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES WITH PROWL BUT NO ROUNDUP OR LIBERTY Trial ID: CN-02-23 Study Dir.: Location: PONDER FARM Investigator: Eric P. Prostko																
Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date							Zeama	Rapra	Amapa	Agrass	Zeama	Zeama	Amapa	Rapra	Agrass	Amapa
							Bleaching %	Control %	Control %	Control %	Stunting %	Bleaching %	Control %	Control %	Control %	Control %
							Apr-20-23	Apr-20-23	Apr-20-23	Apr-20-23	May-2-23	May-2-23	May-2-23	May-2-23	May-2-23	Jun-13-23
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg Code Plot	11	12	13	14	15	16	17	18	19	20
10	WARRANT	3 ME		48.0 oz/a	PRE	A 110	10.0	95.0	99.0	99.0	5.0	15.0	99.0	99.0	99.0	99.0
	SHIELDDEX	3.33 SC		1.0 oz/a	POST	B 203	10.0	95.0	99.0	99.0	15.0	15.0	99.0	99.0	99.0	99.0
	ATRAZINE	4 L		64.0 oz/a	POST	B 301	10.0	95.0	99.0	95.0	5.0	15.0	99.0	99.0	99.0	95.0
	PROWL H20	3.8 SC		32.0 oz/a	POST	B 405	10.0	95.0	99.0	99.0	0.0	15.0	99.0	99.0	95.0	99.0
	AGRIDEX			1.0 % v/v	POST	B										
						Mean =	10.0	95.0	99.0	98.0	6.3	15.0	99.0	99.0	98.0	98.0
11	NO PRE					111	0.0	95.0	99.0	99.0	0.0	0.0	99.0	99.0	99.0	99.0
	REVULIN Q	51.2 DG		3.5 oz/a	POST	B 204	0.0	95.0	99.0	95.0	20.0	10.0	99.0	99.0	99.0	99.0
	ATRAZINE	4 L		64.0 oz/a	POST	B 308	5.0	95.0	99.0	90.0	10.0	5.0	99.0	99.0	99.0	99.0
	PROWL H20	3.8 SC		32.0 oz/a	POST	B 401	0.0	95.0	99.0	80.0	10.0	0.0	99.0	99.0	95.0	99.0
	AGRIDEX			1.0 % v/v	POST	B										
						Mean =	1.3	95.0	99.0	91.0	10.0	3.8	99.0	99.0	98.0	99.0
12	WARRANT	3 ME		48.0 oz/a	PRE	A 112	5.0	95.0	99.0	99.0	5.0	0.0	99.0	99.0	99.0	99.0
	REVULIN Q	51.2 DG		3.5 oz/a	POST	B 210	5.0	95.0	99.0	95.0	5.0	0.0	99.0	99.0	99.0	99.0
	ATRAZINE	4 L		64.0 oz/a	POST	B 303	0.0	95.0	99.0	90.0	10.0	0.0	99.0	99.0	99.0	99.0
	PROWL H20	3.8 SC		32.0 oz/a	POST	B 411	5.0	95.0	99.0	99.0	0.0	0.0	99.0	99.0	99.0	99.0
	AGRIDEX			1.0 % v/v	POST	B										
						Mean =	3.8	95.0	99.0	95.8	5.0	0.0	99.0	99.0	99.0	99.0

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WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES
 WITH PROWL BUT NO ROUNDUP OR LIBERTY
 Trial ID: CN-02-23 Study Dir.:
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code						Rapra	Agrass	Amapa	Agrass	TOTAL WEED	----- ZEAMA PLOT, - YIELD	----- ZEAMA PLOT, - YIELD		
Crop Code						Control %	Control %	Control %	Control %	Cover %	LBS/PLOT	BU/A		
Part Rated						Jun-13-23	Jun-13-23	Aug-18-23	Aug-18-23	Aug-18-23	Sep-5-23	Sep-5-23		
Rating Data Type														
Rating Unit														
Rating Date														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Stg	Appl Code	Plot	21	22	23	24	25	26	27
1	NO PRE						101	0.0	0.0	0.0	0.0	100.0	.	.
	NO POST						211	0.0	0.0	0.0	0.0	100.0	48.0	249
							309	0.0	0.0	0.0	0.0	100.0	40.0	208
							404	0.0	0.0	0.0	0.0	95.0	47.0	244
							Mean =	0.0	0.0	0.0	0.0	98.8	45.0	233
2	NO PRE						102	95.0	85.0	99.0	50.0	60.0	.	.
	CALLISTO	4 SC		3.0 oz/a		POST B	209	95.0	90.0	99.0	60.0	50.0	48.0	249
	ATRAZINE	4 L		64.0 oz/a		POST B	310	99.0	50.0	99.0	0.0	85.0	49.0	254
	PROWL H20	3.8 SC		32.0 oz/a		POST B	409	95.0	65.0	99.0	20.0	65.0	49.0	254
	AGRINDEX			1.0 % v/v		POST B	Mean =	96.0	72.5	99.0	32.5	65.0	48.7	253
3	NO PRE						103	99.0	90.0	99.0	30.0	65.0	52.0	270
	LAUDIS	3.5 SC		3.0 oz/a		POST B	202	95.0	90.0	99.0	60.0	45.0	53.0	275
	ATRAZINE	4 L		64.0 oz/a		POST B	304	95.0	75.0	96.0	60.0	40.0	53.0	275
	PROWL H20	3.8 SC		32.0 oz/a		POST B	412	95.0	95.0	99.0	65.0	40.0	48.0	249
	AGRINDEX			1.0 % v/v		POST B	Mean =	96.0	87.5	98.3	53.8	47.5	51.5	267
4	NO PRE						104	99.0	20.0	99.0	10.0	85.0	45.0	233
	IMPACT	2.8 SC		1.0 oz/a		POST B	205	90.0	65.0	99.0	50.0	60.0	51.0	265
	ATRAZINE	4 L		64.0 oz/a		POST B	307	99.0	95.0	99.0	50.0	55.0	48.0	249
	PROWL H20	3.8 SC		32.0 oz/a		POST B	408	99.0	65.0	99.0	30.0	65.0	44.0	228
	AGRINDEX			1.0 % v/v		POST B	Mean =	96.8	61.3	99.0	35.0	66.3	47.0	244
5	NO PRE						105	99.0	90.0	99.0	60.0	50.0	47.0	244
	SHIELDX	3.33 SC		1.0 oz/a		POST B	208	95.0	95.0	99.0	75.0	30.0	45.0	233
	ATRAZINE	4 L		64.0 oz/a		POST B	306	95.0	95.0	99.0	85.0	25.0	45.0	233
	PROWL H20	3.8 SC		32.0 oz/a		POST B	402	95.0	90.0	99.0	85.0	30.0	53.0	275
	AGRINDEX			1.0 % v/v		POST B	Mean =	96.0	92.5	99.0	76.3	33.8	47.5	246
6	WARRANT	3 ME		48.0 oz/a		PRE A	106	0.0	10.0	95.0	20.0	70.0	42.0	218
	NO POST						201	0.0	95.0	99.0	55.0	50.0	49.0	254
							302	0.0	65.0	99.0	20.0	75.0	48.0	249
							406	0.0	0.0	99.0	0.0	100.0	47.0	244
							Mean =	0.0	42.5	98.0	23.8	73.8	46.5	241
7	WARRANT	3 ME		48.0 oz/a		PRE A	107	99.0	95.0	99.0	65.0	40.0	49.0	254
	CALLISTO	4 SC		3.0 oz/a		POST B	206	95.0	95.0	99.0	90.0	20.0	50.0	259
	ATRAZINE	4 L		64.0 oz/a		POST B	312	95.0	80.0	99.0	60.0	50.0	48.0	249
	PROWL H20	3.8 SC		32.0 oz/a		POST B	407	95.0	65.0	99.0	40.0	65.0	51.0	265
	AGRINDEX			1.0 % v/v		POST B	Mean =	96.0	83.8	99.0	63.8	43.8	49.5	257
8	WARRANT	3 ME		48.0 oz/a		PRE A	108	95.0	95.0	99.0	90.0	10.0	52.0	270
	LAUDIS	3.5 SC		3.0 oz/a		POST B	212	95.0	95.0	99.0	90.0	15.0	53.0	275
	ATRAZINE	4 L		64.0 oz/a		POST B	305	95.0	95.0	99.0	60.0	50.0	49.0	254
	PROWL H20	3.8 SC		32.0 oz/a		POST B	403	95.0	95.0	99.0	75.0	40.0	51.0	265
	AGRINDEX			1.0 % v/v		POST B	Mean =	95.0	95.0	99.0	78.8	28.8	51.3	266
9	WARRANT	3 ME		48.0 oz/a		PRE A	109	99.0	95.0	99.0	65.0	35.0	50.0	259
	IMPACT	2.8 SC		1.0 oz/a		POST B	207	95.0	90.0	99.0	75.0	30.0	50.0	259
	ATRAZINE	4 L		64.0 oz/a		POST B	311	99.0	75.0	99.0	60.0	45.0	48.0	249
	PROWL H20	3.8 SC		32.0 oz/a		POST B	410	95.0	95.0	99.0	80.0	20.0	51.0	265
	AGRINDEX			1.0 % v/v		POST B	Mean =	97.0	88.8	99.0	70.0	32.5	49.8	258

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WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES
 WITH PROWL BUT NO ROUNDUP OR LIBERTY
 Trial ID: CN-02-23 Study Dir.:
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code							Rapra	Agrass	Amapa	Agrass	TOTAL WEED	-----	-----
Crop Code							Control %	Control %	Control %	Control %	Cover %	ZEAMA PLOT, -	ZEAMA PLOT, -
Part Rated							Jun-13-23	Jun-13-23	Aug-18-23	Aug-18-23	Aug-18-23	YIELD LBS/PLOT	YIELD BU/A
Rating Data Type							Jun-13-23	Jun-13-23	Aug-18-23	Aug-18-23	Aug-18-23	Sep-5-23	Sep-5-23
Rating Unit													
Rating Date													
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Stg	Appl Code Plot	21	22	23	24	25	26	27
10	WARRANT	3 ME		48.0 oz/a	PRE	A 110	95.0	95.0	95.0	75.0	25.0	49.0	254
	SHIELDDEX	3.33 SC		1.0 oz/a	POST	B 203	95.0	95.0	99.0	95.0	15.0	52.0	270
	ATRAZINE	4 L		64.0 oz/a	POST	B 301	95.0	95.0	99.0	65.0	45.0	52.0	270
	PROWL H20	3.8 SC		32.0 oz/a	POST	B 405	95.0	90.0	99.0	50.0	50.0	55.0	285
	AGRIDEX			1.0 % v/v	POST	B							
						Mean =	95.0	93.8	98.0	71.3	33.8	52.0	270
11	NO PRE					111	95.0	95.0	95.0	85.0	25.0	47.0	244
	REVULIN Q	51.2 DG		3.5 oz/a	POST	B 204	99.0	95.0	99.0	85.0	35.0	52.0	270
	ATRAZINE	4 L		64.0 oz/a	POST	B 308	95.0	95.0	99.0	75.0	35.0	50.0	259
	PROWL H20	3.8 SC		32.0 oz/a	POST	B 401	95.0	65.0	99.0	60.0	60.0	56.0	291
	AGRIDEX			1.0 % v/v	POST	B							
						Mean =	96.0	87.5	98.0	76.3	38.8	51.3	266
12	WARRANT	3 ME		48.0 oz/a	PRE	A 112	95.0	99.0	99.0	90.0	15.0	49.0	254
	REVULIN Q	51.2 DG		3.5 oz/a	POST	B 210	95.0	99.0	99.0	65.0	25.0	48.0	249
	ATRAZINE	4 L		64.0 oz/a	POST	B 303	95.0	95.0	96.0	75.0	30.0	53.0	275
	PROWL H20	3.8 SC		32.0 oz/a	POST	B 411	95.0	95.0	99.0	90.0	20.0	50.0	259
	AGRIDEX			1.0 % v/v	POST	B							
						Mean =	95.0	97.0	98.3	80.0	22.5	50.0	259

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WITH PROWL BUT NO ROUNDUP OR LIBERTY
Trial ID: CN-02-23 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

Rating Unit
% = PERCENT
ARM Action Codes
TY1 = 5.18878276*[26]