

University of Georgia

WEED CONTROL IN FIELD CORN WITHOUT ATRAZINE OR ROUNDUP

Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 Location: PONDER FARM Investigator: Eric P. Prostko

Reps: 3 Plots: 6 by 25 feet
 Mix Size: 1.5 L

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	Appl. Amount	Amt Product to Measure	Diluent	Rep 1	Rep 2	Rep 3	
1	NO PRE NO LIBERTY NO HPPD								- - -	101	205	302	
2	NO PRE NO LIBERTY CALLISTO PROWL H2O INDUCE	4 3.8	SC SC	3.0 32.0	oz/a oz/a	POST POST	B B	15 15	GAL/AC GAL/AC	2.344 25.0	mL/mx mL/mx	1468.9	102 215 318
3	NO PRE NO LIBERTY LAUDIS PROWL H2O INDUCE	3.5 3.8	SC SC	3.0 32.0	oz/a oz/a	POST POST	B B	15 15	GAL/AC GAL/AC	2.344 25.0	mL/mx mL/mx	1468.9	103 216 317
4	NO PRE NO LIBERTY IMPACT PROWL H2O INDUCE	2.8 3.8	SC SC	1.25 32.0	oz/a oz/a	POST POST	B B	15 15	GAL/AC GAL/AC	0.9766 25.0	mL/mx mL/mx	1470.3	104 206 310
5	NO PRE NO LIBERTY SHIELDEX PROWL H2O INDUCE	3.33 3.8	SC SC	1.35 32.0	oz/a oz/a	POST POST	B B	15 15	GAL/AC GAL/AC	1.055 25.0	mL/mx mL/mx	1470.2	105 217 315
6	NO PRE LIBERTY NO HPPD	2.34	SL	32.0	oz/a	POST	B	15	GAL/AC	25.0	mL/mx	1475	106 218 304
7	NO PRE LIBERTY CALLISTO PROWL H2O INDUCE	2.34 4 3.8	SL SC SC	32.0 3.0 32.0	oz/a oz/a oz/a	POST POST POST	B B B	15 15 15	GAL/AC GAL/AC GAL/AC	25.0 2.344 25.0	mL/mx mL/mx mL/mx	1443.9	107 219 314
8	NO PRE LIBERTY LAUDIS PROWL H2O INDUCE	2.34 3.5 3.8	SL SC SC	32.0 3.0 32.0	oz/a oz/a oz/a	POST POST POST	B B B	15 15 15	GAL/AC GAL/AC GAL/AC	25.0 2.344 25.0	mL/mx mL/mx mL/mx	1443.9	108 213 303
9	NO PRE LIBERTY IMPACT PROWL H2O INDUCE	2.34 2.8 3.8	SL SC SC	32.0 1.25 32.0	oz/a oz/a oz/a	POST POST POST	B B B	15 15 15	GAL/AC GAL/AC GAL/AC	25.0 0.9766 25.0	mL/mx mL/mx mL/mx	1445.3	109 210 308
10	NO PRE LIBERTY SHIELDEX PROWL H2O INDUCE	2.34 3.33 3.8	SL SC SC	32.0 1.35 32.0	oz/a oz/a oz/a	POST POST POST	B B B	15 15 15	GAL/AC GAL/AC GAL/AC	25.0 1.055 25.0	mL/mx mL/mx mL/mx	1445.2	110 202 305
11	DUAL II MAGNUM NO LIBERTY NO HPPD	7.64	EC	16.0	oz/a	PRE	A	15	GPA	12.5	mL/mx	1487.5	111 220 301
12	DUAL II MAGNUM NO LIBERTY CALLISTO PROWL H2O INDUCE	7.64 4 3.8	EC SC SC	16.0 3.0 32.0	oz/a oz/a oz/a	PRE POST POST	A B B	15 15 15	GPA GAL/AC GAL/AC	12.5 2.344 25.0	mL/mx mL/mx mL/mx	1487.5	112 209 307

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Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	Appl. Amount	Amt Product to Measure	Diluent	Rep 1	2	3
13	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	15 GPA	12.5 mL/mx	1487.5 mL	113	203	311
	NO LIBERTY							-				
	LAUDIS	3.5	SC	3.0 oz/a	POST	B	15 GAL/AC	2.344 mL/mx	1468.9 mL			
	PROWL H2O	3.8	SC	32.0 oz/a	POST	B	15 GAL/AC	25.0 mL/mx				
	INDUCE			0.25 % v/v	POST	B	15 GAL/AC	3.75 mL/mx				
14	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	15 GPA	12.5 mL/mx	1487.5 mL	114	208	313
	NO LIBERTY							-				
	IMPACT	2.8	SC	1.25 oz/a	POST	B	15 GAL/AC	0.9766 mL/mx	1470.3 mL			
	PROWL H2O	3.8	SC	32.0 oz/a	POST	B	15 GAL/AC	25.0 mL/mx				
	INDUCE			0.25 % v/v	POST	B	15 GAL/AC	3.75 mL/mx				
15	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	15 GPA	12.5 mL/mx	1487.5 mL	115	207	312
	NO LIBERTY							-				
	SHIELDEX	3.33	SC	1.35 oz/a	POST	B	15 GAL/AC	1.055 mL/mx	1470.2 mL			
	PROWL H2O	3.8	SC	32.0 oz/a	POST	B	15 GAL/AC	25.0 mL/mx				
	INDUCE			0.25 % v/v	POST	B	15 GAL/AC	3.75 mL/mx				
16	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	15 GPA	12.5 mL/mx	1487.5 mL	116	211	320
	LIBERTY	2.34	SL	32.0 oz/a	POST	B	15 GAL/AC	25.0 mL/mx	1475 mL			
	NO HPPD							-				
17	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	15 GPA	12.5 mL/mx	1487.5 mL	117	214	309
	LIBERTY	2.34	SL	32.0 oz/a	POST	B	15 GAL/AC	25.0 mL/mx	1443.9 mL			
	CALLISTO	4	SC	3.0 oz/a	POST	B	15 GAL/AC	2.344 mL/mx				
	PROWL H2O	3.8	SC	32.0 oz/a	POST	B	15 GAL/AC	25.0 mL/mx				
	INDUCE			0.25 % v/v	POST	B	15 GAL/AC	3.75 mL/mx				
18	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	15 GPA	12.5 mL/mx	1487.5 mL	118	204	306
	LIBERTY	2.34	SL	32.0 oz/a	POST	B	15 GAL/AC	25.0 mL/mx	1443.9 mL			
	LAUDIS	3.5	SC	3.0 oz/a	POST	B	15 GAL/AC	2.344 mL/mx				
	PROWL H2O	3.8	SC	32.0 oz/a	POST	B	15 GAL/AC	25.0 mL/mx				
	INDUCE			0.25 % v/v	POST	B	15 GAL/AC	3.75 mL/mx				
19	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	15 GPA	12.5 mL/mx	1487.5 mL	119	212	319
	LIBERTY	2.34	SL	32.0 oz/a	POST	B	15 GAL/AC	25.0 mL/mx	1445.3 mL			
	IMPACT	2.8	SC	1.25 oz/a	POST	B	15 GAL/AC	0.9766 mL/mx				
	PROWL H2O	3.8	SC	32.0 oz/a	POST	B	15 GAL/AC	25.0 mL/mx				
	INDUCE			0.25 % v/v	POST	B	15 GAL/AC	3.75 mL/mx				
20	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	15 GPA	12.5 mL/mx	1487.5 mL	120	201	316
	LIBERTY	2.34	SL	32.0 oz/a	POST	B	15 GAL/AC	25.0 mL/mx	1445.2 mL			
	SHIELDEX	3.33	SC	1.35 oz/a	POST	B	15 GAL/AC	1.055 mL/mx				
	PROWL H2O	3.8	SC	32.0 oz/a	POST	B	15 GAL/AC	25.0 mL/mx				
	INDUCE			0.25 % v/v	POST	B	15 GAL/AC	3.75 mL/mx				

Sort Order: Replicate 1

University of Georgia

WEED CONTROL IN FIELD CORN WITHOUT ATRAZINE OR ROUNDUP

Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
Location: PONDER FARM Investigator: Eric P. Prostko

Trial Comments

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

MISSING YIELD DATA IN PLOT 201 DUE TO LODGING FROM HURRICANE IDALIA (08/30/23)

SUMMARY:

- 1) GENERALLY, WEED CONTROL WAS BETTER WHEN DUAL II MAGNUM WAS APPLIED PRE AND WHEN LIBERTY WAS TANK-MIXED WITH POST APPLIED HPPD HERBICIDES + PROWL.
- 2) CALLISTO WAS MORE EFFECTIVE ON WILD RADISH THAN THE OTHER HPPD HERBICIDES.
- 3) LIBERTY ALONE WAS NOT EFFECTIVE ON WILD RADISH.
- 4) ALL TREATMENTS PROVIDED AT LEAST 88% CONTROL OF PALMER AMARANTH WITH NO MAJOR DIFFERENCES BETWEEN HPPD HERBICIDES.
- 5) LAUDIS AND IMPACT WERE MORE EFFECTIVE ON ANNUAL GRASSES THAN CALLISTO OR SHIELDEX.
- 6) ALL TREATMENTS RESULTED IN HIGHER YIELDS THAN THE NTC. NO MAJOR DIFFERENCE IN YIELDS BETWEEN HPPD HERBICIDES WERE OBSERVED EXCEPT FOR THE FOLLOWING:
 - A) LIBERTY + SHIELDEX + PROWL HAD LOWER YIELDS THAN SIMILAR TREATMENTS WITH CALLISTO, LAUDIS, OR IMPACT.

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Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: NICK SHAY **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/CROW/GOOSE/SANDBUR

Crop 1: ZEAMA FIELD CORN **Variety:** PIONEER 2042VYHR
Planting Date: Mar-22-23 **Planting Method:** MONOSEM VACUUM
Rate: 33880 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:** 3
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 - 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	RAINFALL		
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.	Jun-20-23		0.1	IN	RAINFALL		
17.	Jul-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	8:00 AM
Application Method:	BROADCAST	BROADCAST
Application Timing:	PRE	POST
Applic. Placement:	SOIL	FOLIAGE
Air Temp., Unit:	56 F	59 F
% Relative Humidity:	94	92
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:		

APPLICATION EQUIPMENT		
	A	B
Appl. Equipment:	BACKPACK	SAME AS A
Operating Pressure:	37	
Nozzle Type:	AIXR	
Nozzle Size:	11002	
Nozzle Spacing, Unit:		
Nozzles/Row:		
Band Width, Unit:		
Boom Length, Unit:	60 IN	
Boom Height, Unit:	20 IN	
Ground Speed, Unit:	3.5 MPH	
Incorporation Equip.:		
Hours to Incorp.:		
Incorp. Depth, Unit:		
Carrier:	WATER	
Spray Volume, Unit:	15 GPA	
Spray pH:		
Propellant:	CO2	
Tank Mix (Y/N):		

Trt No	Treatment Application Comment

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Weed Code	----	RAPRA	AGRASS	Zeama	Rapra	Amapa	Agrass	Zeama	Zeama	Zeama
Crop Code	ZEAMA	Control	Control	Stunting	Control	Control	Control	Stunting	Chlorosis	Bleaching
Rating Data Type	Stunting	%	%	%	%	%	%	%	%	%
Rating Unit	Apr-4-23	Apr-4-23	Apr-4-23	Apr-12-23	Apr-12-23	Apr-12-23	Apr-12-23	Apr-20-23	Apr-20-23	Apr-20-23
Rating Date	1	2	3	4	5	6	7	8	9	10
TABLE OF R MEANS										
Replicate 1	0.0	10.0	49.5	0.0	2.5	49.5	49.1	3.8	4.5	0.0
Replicate 2	0.0	8.0	49.5	0.0	0.0	49.5	49.5	4.0	4.5	0.0
Replicate 3	0.0	11.8	48.8	0.0	3.0	49.5	48.9	5.3	3.5	0.0
TABLE OF A (PRE) MEANS										
1 NO PRE	0.0 -	0.0 b	0.0 b	0.0 -	0.0 -	0.0 b	0.0 b	5.3 -	5.0 -	0.0 -
2 DUAL II MAGNUM 7.64 EC 16.0 oz/a PRE A	0.0 -	19.8 a	98.5 a	0.0 -	3.7 -	99.0 a	98.3 a	3.3 -	3.3 -	0.0 -
LSD P=.10	.	6.33	1.36	.	5.42	.	1.11	4.21	1.95	.
Standard Deviation	0.00	8.39	1.81	0.00	7.19	0.00	1.47	5.59	2.58	0.00
CV	0.00	84.62	3.67	0.00	392.07	0.00	2.98	129.00	61.97	0.00
TABLE OF B (LIBERTY) MEANS										
1 NO LIBERTY	0.0 -	10.2 -	49.0 -	0.0 -	1.7 -	49.5 -	49.1 -	3.5 -	3.7 -	0.0 -
2 LIBERTY 2.34 SL 32.0 oz/a POST B	0.0 -	9.7 -	49.5 -	0.0 -	2.0 -	49.5 -	49.2 -	5.2 -	4.7 -	0.0 -
LSD P=.10	.	2.23	1.36	.	9.28	.	0.49	2.96	3.37	.
Standard Deviation	0.00	2.96	1.81	0.00	12.32	0.00	0.65	3.93	4.47	0.00
CV	0.00	29.83	3.67	0.00	671.74	0.00	1.31	90.61	107.33	0.00
TABLE OF C (HPPD) MEANS										
1 NO HPPD	0.0 -	11.7 -	49.5 -	0.0 -	2.5 -	49.5 -	49.5 -	0.8 c	0.0 c	0.0 -
2 CALLISTO 4 SC 3.0 oz/a POST B	0.0 -	11.3 -	49.5 -	0.0 -	4.2 -	49.5 -	49.5 -	5.0 ab	5.0 ab	0.0 -
2 PROWL H2O 3.8 SC 32.0 oz/a POST B										
2 INDUCE 0.25 % v/v POST B										
3 LAUDIS 3.5 SC 3.0 oz/a POST B	0.0 -	8.3 -	49.5 -	0.0 -	0.0 -	49.5 -	49.2 -	5.4 ab	7.5 a	0.0 -
3 PROWL H2O 3.8 SC 32.0 oz/a POST B										
3 INDUCE 0.25 % v/v POST B										
4 IMPACT 2.8 SC 1.25 oz/a POST B	0.0 -	8.3 -	48.3 -	0.0 -	0.0 -	49.5 -	48.4 -	2.5 bc	3.3 b	0.0 -
4 PROWL H2O 3.8 SC 32.0 oz/a POST B										
4 INDUCE 0.25 % v/v POST B										
5 SHIELDDEX 3.33 SC 1.35 oz/a POST B	0.0 -	10.0 -	49.5 -	0.0 -	2.5 -	49.5 -	49.2 -	7.9 a	5.0 ab	0.0 -
5 PROWL H2O 3.8 SC 32.0 oz/a POST B										
5 INDUCE 0.25 % v/v POST B										
LSD P=.10	.	5.67	1.37	.	6.65	.	0.90	3.90	3.32	.
Standard Deviation	0.00	7.47	1.81	0.00	8.76	0.00	1.18	5.14	4.38	0.00
CV	0.00	75.35	3.67	0.00	477.60	0.00	2.41	118.70	105.07	0.00
TABLE OF A (PRE) B (LIBERTY) MEANS										
1 NO PRE	0.0 -	0.0 -	0.0 -	0.0 -	0.0 -	0.0 b	0.0 -	4.3 -	4.0 -	0.0 -
1 NO LIBERTY										
2 DUAL II MAGNUM 7.64 EC 16.0 oz/a PRE A	0.0 -	20.3 -	98.1 -	0.0 -	3.3 -	99.0 a	98.1 -	2.7 -	3.3 -	0.0 -
1 NO LIBERTY										
1 NO PRE	0.0 -	0.0 -	0.0 -	0.0 -	0.0 -	0.0 b	0.0 -	6.3 -	6.0 -	0.0 -
2 LIBERTY 2.34 SL 32.0 oz/a POST B										
2 DUAL II MAGNUM 7.64 EC 16.0 oz/a PRE A	0.0 -	19.3 -	99.0 -	0.0 -	4.0 -	99.0 a	98.5 -	4.0 -	3.3 -	0.0 -
2 LIBERTY 2.34 SL 32.0 oz/a POST B										
LSD P=.10	.	3.15	1.93	.	13.13	.	0.69	0.69	4.77	.
Standard Deviation	0.00	2.96	1.81	0.00	12.32	0.00	0.65	0.65	4.47	0.00
CV	0.00	29.83	3.67	0.00	671.74	0.00	1.31	14.90	107.33	0.00
TABLE OF A (PRE) C (HPPD) MEANS										

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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Weed Code					----	RAPRA	AGRASS		Rapra	Amapa	Agrass	Zeama	Zeama	Zeama			
Crop Code					ZEAMA	-----	----	Zeama	Control	Control	Control	Stunting	Chlorosis	Bleaching			
Rating Data Type					Stunting	Control	Control	Stunting	Control	Control	Control	%	%	%			
Rating Unit					%	%	%	%	%	%	%	%	%	%			
Rating Date					Apr-4-23	Apr-4-23	Apr-4-23	Apr-12-23	Apr-12-23	Apr-12-23	Apr-12-23	Apr-20-23	Apr-20-23	Apr-20-23			
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6	7	8	9	10	
1	NO PRE						0.0 -	0.0 -	0.0 -	0.0 -	0.0 -	0.0 b	0.0 -	0.0 -	0.0 -	0.0 -	
1	NO HPPD																
2	DUAL II MAGNUM	7.64 EC		16.0 oz/a	PRE	A	0.0 -	23.3 -	99.0 -	0.0 -	5.0 -	99.0 a	99.0 -	1.7 -	0.0 -	0.0 -	
1	NO HPPD																
1	NO PRE						0.0 -	0.0 -	0.0 -	0.0 -	0.0 -	0.0 b	0.0 -	5.0 -	3.3 -	0.0 -	
2	CALLISTO	4 SC		3.0 oz/a	POST	B											
2	PROWL H2O	3.8 SC		32.0 oz/a	POST	B											
2	INDUCE			0.25 % v/v	POST	B											
2	DUAL II MAGNUM	7.64 EC		16.0 oz/a	PRE	A	0.0 -	22.5 -	99.0 -	0.0 -	8.3 -	99.0 a	99.0 -	5.0 -	6.7 -	0.0 -	
2	CALLISTO	4 SC		3.0 oz/a	POST	B											
2	PROWL H2O	3.8 SC		32.0 oz/a	POST	B											
2	INDUCE			0.25 % v/v	POST	B											
1	NO PRE						0.0 -	0.0 -	0.0 -	0.0 -	0.0 -	0.0 b	0.0 -	5.8 -	8.3 -	0.0 -	
3	LAUDIS	3.5 SC		3.0 oz/a	POST	B											
3	PROWL H2O	3.8 SC		32.0 oz/a	POST	B											
3	INDUCE			0.25 % v/v	POST	B											
2	DUAL II MAGNUM	7.64 EC		16.0 oz/a	PRE	A	0.0 -	16.7 -	99.0 -	0.0 -	0.0 -	99.0 a	98.3 -	5.0 -	6.7 -	0.0 -	
3	LAUDIS	3.5 SC		3.0 oz/a	POST	B											
3	PROWL H2O	3.8 SC		32.0 oz/a	POST	B											
3	INDUCE			0.25 % v/v	POST	B											
1	NO PRE						0.0 -	0.0 -	0.0 -	0.0 -	0.0 -	0.0 b	0.0 -	5.0 -	5.0 -	0.0 -	
4	IMPACT	2.8 SC		1.25 oz/a	POST	B											
4	PROWL H2O	3.8 SC		32.0 oz/a	POST	B											
4	INDUCE			0.25 % v/v	POST	B											
2	DUAL II MAGNUM	7.64 EC		16.0 oz/a	PRE	A	0.0 -	16.7 -	96.7 -	0.0 -	0.0 -	99.0 a	96.8 -	0.0 -	1.7 -	0.0 -	
4	IMPACT	2.8 SC		1.25 oz/a	POST	B											
4	PROWL H2O	3.8 SC		32.0 oz/a	POST	B											
4	INDUCE			0.25 % v/v	POST	B											
1	NO PRE						0.0 -	0.0 -	0.0 -	0.0 -	0.0 -	0.0 b	0.0 -	10.8 -	8.3 -	0.0 -	
5	SHIELDDEX	3.33 SC		1.35 oz/a	POST	B											
5	PROWL H2O	3.8 SC		32.0 oz/a	POST	B											
5	INDUCE			0.25 % v/v	POST	B											
2	DUAL II MAGNUM	7.64 EC		16.0 oz/a	PRE	A	0.0 -	20.0 -	99.0 -	0.0 -	5.0 -	99.0 a	98.3 -	5.0 -	1.7 -	0.0 -	
5	SHIELDDEX	3.33 SC		1.35 oz/a	POST	B											
5	PROWL H2O	3.8 SC		32.0 oz/a	POST	B											
5	INDUCE			0.25 % v/v	POST	B											
LSD P=.10								8.02	1.94		9.40		1.27	6.00	6.04		
Standard Deviation							0.00	7.47	1.81	0.00	8.76	0.00	1.18	5.59	5.63	0.00	
CV							0.00	75.35	3.67	0.00	477.60	0.00	2.41	129.00	135.06	0.00	
TABLE OF B (LIBERTY) C (HPPD) MEANS																	
1	NO LIBERTY						0.0 -	11.7 -	49.5 -	0.0 -	0.0 -	49.5 -	49.5 -	1.7 -	0.0 -	0.0 -	
1	NO HPPD																
2	LIBERTY	2.34 SL		32.0 oz/a	POST	B	0.0 -	11.7 -	49.5 -	0.0 -	5.0 -	49.5 -	49.5 -	0.0 -	0.0 -	0.0 -	
1	NO HPPD																
1	NO LIBERTY						0.0 -	15.8 -	49.5 -	0.0 -	8.3 -	49.5 -	49.5 -	1.7 -	3.3 -	0.0 -	
2	CALLISTO	4 SC		3.0 oz/a	POST	B											
2	PROWL H2O	3.8 SC		32.0 oz/a	POST	B											
2	INDUCE			0.25 % v/v	POST	B											
2	LIBERTY	2.34 SL		32.0 oz/a	POST	B	0.0 -	6.7 -	49.5 -	0.0 -	0.0 -	49.5 -	49.5 -	8.3 -	6.7 -	0.0 -	
2	CALLISTO	4 SC		3.0 oz/a	POST	B											
2	PROWL H2O	3.8 SC		32.0 oz/a	POST	B											
2	INDUCE			0.25 % 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 WITHOUT ATRAZINE OR ROUNDUP
 Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code				----	RAPRA	AGRASS		Rapra	Amapa	Agrass	Zeama	Zeama	Zeama				
Crop Code				ZEAMA	-----	----	Zeama	Control	Control	Control	Stunting	Chlorosis	Bleaching				
Rating Data Type				Stunting	Control	Control	Stunting	Control	Control	Control	Stunting	Chlorosis	Bleaching				
Rating Unit				%	%	%	%	%	%	%	%	%	%				
Rating Date				Apr-4-23	Apr-4-23	Apr-4-23	Apr-12-23	Apr-12-23	Apr-12-23	Apr-12-23	Apr-12-23	Apr-20-23	Apr-20-23	Apr-20-23			
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6	7	8	9	10	
1	NO LIBERTY						0.0 -	8.3 -	49.5 -	0.0 -	0.0 -	49.5 -	49.5 -	5.0 -	8.3 -	0.0 -	
3	LAUDIS	3.5	SC	3.0 oz/a		POST B											
3	PROWL H2O	3.8	SC	32.0 oz/a		POST B											
3	INDUCE			0.25 % v/v		POST B											
2	LIBERTY	2.34	SL	32.0 oz/a		POST B	0.0 -	8.3 -	49.5 -	0.0 -	0.0 -	49.5 -	48.8 -	5.8 -	6.7 -	0.0 -	
3	LAUDIS	3.5	SC	3.0 oz/a		POST B											
3	PROWL H2O	3.8	SC	32.0 oz/a		POST B											
3	INDUCE			0.25 % v/v		POST B											
1	NO LIBERTY						0.0 -	6.7 -	47.2 -	0.0 -	0.0 -	49.5 -	47.3 -	1.7 -	1.7 -	0.0 -	
4	IMPACT	2.8	SC	1.25 oz/a		POST B											
4	PROWL H2O	3.8	SC	32.0 oz/a		POST B											
4	INDUCE			0.25 % v/v		POST B											
2	LIBERTY	2.34	SL	32.0 oz/a		POST B	0.0 -	10.0 -	49.5 -	0.0 -	0.0 -	49.5 -	49.5 -	3.3 -	5.0 -	0.0 -	
4	IMPACT	2.8	SC	1.25 oz/a		POST B											
4	PROWL H2O	3.8	SC	32.0 oz/a		POST B											
4	INDUCE			0.25 % v/v		POST B											
1	NO LIBERTY						0.0 -	8.3 -	49.5 -	0.0 -	0.0 -	49.5 -	49.5 -	7.5 -	5.0 -	0.0 -	
5	SHIELDDEX	3.33	SC	1.35 oz/a		POST B											
5	PROWL H2O	3.8	SC	32.0 oz/a		POST B											
5	INDUCE			0.25 % v/v		POST B											
2	LIBERTY	2.34	SL	32.0 oz/a		POST B	0.0 -	11.7 -	49.5 -	0.0 -	5.0 -	49.5 -	48.8 -	8.3 -	5.0 -	0.0 -	
5	SHIELDDEX	3.33	SC	1.35 oz/a		POST B											
5	PROWL H2O	3.8	SC	32.0 oz/a		POST B											
5	INDUCE			0.25 % v/v		POST B											
LSD P=.10							.	7.78	1.94	.	7.72	.	1.45	5.88	2.94	.	
Standard Deviation							0.00	7.25	1.81	0.00	7.19	0.00	1.35	5.48	2.74	0.00	0.00
CV							0.00	73.07	3.67	0.00	392.07	0.00	2.75	126.40	65.73	0.00	0.00
TABLE OF A (PRE) B (LIBERTY) C (HPPD) MEANS																	
1	NO PRE						0.0 -	0.0 -	0.0 -	0.0 -	0.0 -	0.0 b	0.0 -	0.0 -	0.0 -	0.0 -	
1	NO LIBERTY																
1	NO HPPD																
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	0.0 -	23.3 -	99.0 -	0.0 -	0.0 -	99.0 a	99.0 -	3.3 -	0.0 -	0.0 -	
1	NO LIBERTY																
1	NO HPPD																
1	NO PRE						0.0 -	0.0 -	0.0 -	0.0 -	0.0 -	0.0 b	0.0 -	0.0 -	0.0 -	0.0 -	
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B											
1	NO HPPD																
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	0.0 -	23.3 -	99.0 -	0.0 -	10.0 -	99.0 a	99.0 -	0.0 -	0.0 -	0.0 -	
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B											
1	NO HPPD																
1	NO PRE						0.0 -	0.0 -	0.0 -	0.0 -	0.0 -	0.0 b	0.0 -	3.3 -	3.3 -	0.0 -	
1	NO LIBERTY																
2	CALLISTO	4	SC	3.0 oz/a	POST	B											
2	PROWL H2O	3.8	SC	32.0 oz/a	POST	B											
2	INDUCE			0.25 % v/v	POST	B											
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	0.0 -	31.7 -	99.0 -	0.0 -	16.7 -	99.0 a	99.0 -	0.0 -	3.3 -	0.0 -	
1	NO LIBERTY																
2	CALLISTO	4	SC	3.0 oz/a	POST	B											
2	PROWL H2O	3.8	SC	32.0 oz/a	POST	B											
2	INDUCE			0.25 % 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 WITHOUT ATRAZINE OR ROUNDUP
 Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 Location: PONDER FARM Investigator: Eric P. Prostko

					-----	RAPRA	AGRASS		Rapra	Amapa	Agrass	Zeama	Zeama	Zeama		
					ZEAMA	Control	Control	Zeama	Control	Control	Control	Stunting	Chlorosis	Bleaching		
					Stunting	%	%	Stunting	%	%	%	%	%	%		
					Apr-4-23	Apr-4-23	Apr-4-23	Apr-12-23	Apr-12-23	Apr-12-23	Apr-12-23	Apr-12-23	Apr-20-23	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
1	NO PRE						0.0 -	0.0 -	0.0 -	0.0 -	0.0 -	0.0 b	0.0 -	6.7 -	3.3 -	0.0 -
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B										
2	CALLISTO	4	SC	3.0 oz/a	POST	B										
2	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
2	INDUCE			0.25 % v/v	POST	B										
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	0.0 -	13.3 -	99.0 -	0.0 -	0.0 -	99.0 a	99.0 -	10.0 -	10.0 -	0.0 -
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B										
2	CALLISTO	4	SC	3.0 oz/a	POST	B										
2	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
2	INDUCE			0.25 % v/v	POST	B										
1	NO PRE						0.0 -	0.0 -	0.0 -	0.0 -	0.0 -	0.0 b	0.0 -	5.0 -	6.7 -	0.0 -
1	NO LIBERTY															
3	LAUDIS	3.5	SC	3.0 oz/a	POST	B										
3	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
3	INDUCE			0.25 % v/v	POST	B										
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	0.0 -	16.7 -	99.0 -	0.0 -	0.0 -	99.0 a	99.0 -	5.0 -	10.0 -	0.0 -
1	NO LIBERTY															
3	LAUDIS	3.5	SC	3.0 oz/a	POST	B										
3	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
3	INDUCE			0.25 % v/v	POST	B										
1	NO PRE						0.0 -	0.0 -	0.0 -	0.0 -	0.0 -	0.0 b	0.0 -	6.7 -	10.0 -	0.0 -
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B										
3	LAUDIS	3.5	SC	3.0 oz/a	POST	B										
3	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
3	INDUCE			0.25 % v/v	POST	B										
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	0.0 -	16.7 -	99.0 -	0.0 -	0.0 -	99.0 a	97.7 -	5.0 -	3.3 -	0.0 -
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B										
3	LAUDIS	3.5	SC	3.0 oz/a	POST	B										
3	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
3	INDUCE			0.25 % v/v	POST	B										
1	NO PRE						0.0 -	0.0 -	0.0 -	0.0 -	0.0 -	0.0 b	0.0 -	3.3 -	3.3 -	0.0 -
1	NO LIBERTY															
4	IMPACT	2.8	SC	1.25 oz/a	POST	B										
4	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
4	INDUCE			0.25 % v/v	POST	B										
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	0.0 -	13.3 -	94.3 -	0.0 -	0.0 -	99.0 a	94.7 -	0.0 -	0.0 -	0.0 -
1	NO LIBERTY															
4	IMPACT	2.8	SC	1.25 oz/a	POST	B										
4	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
4	INDUCE			0.25 % v/v	POST	B										
1	NO PRE						0.0 -	0.0 -	0.0 -	0.0 -	0.0 -	0.0 b	0.0 -	6.7 -	6.7 -	0.0 -
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B										
4	IMPACT	2.8	SC	1.25 oz/a	POST	B										
4	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
4	INDUCE			0.25 % v/v	POST	B										
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	0.0 -	20.0 -	99.0 -	0.0 -	0.0 -	99.0 a	99.0 -	0.0 -	3.3 -	0.0 -
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B										
4	IMPACT	2.8	SC	1.25 oz/a	POST	B										
4	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
4	INDUCE			0.25 % v/v	POST	B										
1	NO PRE						0.0 -	0.0 -	0.0 -	0.0 -	0.0 -	0.0 b	0.0 -	10.0 -	6.7 -	0.0 -
1	NO LIBERTY															
5	SHIELDDEX	3.33	SC	1.35 oz/a	POST	B										
5	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
5	INDUCE			0.25 % 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 WITHOUT ATRAZINE OR ROUNDUP

Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code	-----	RAPRA	AGRASS	Zeama	Rapra	Amapa	Agrass	Zeama	Zeama	Zeama
Crop Code	ZEAMA	-----	-----	Stunting	Control	Control	Control	Stunting	Chlorosis	Bleaching
Rating Data Type	Stunting	Control	Control	Stunting	Control	Control	Control	Stunting	Chlorosis	Bleaching
Rating Unit	%	%	%	%	%	%	%	%	%	%
Rating Date	Apr-4-23	Apr-4-23	Apr-4-23	Apr-12-23	Apr-12-23	Apr-12-23	Apr-12-23	Apr-20-23	Apr-20-23	Apr-20-23
Trt No.	1	2	3	4	5	6	7	8	9	10
Treatment Name	1	2	3	4	5	6	7	8	9	10
2 DUAL II MAGNUM	0.0 -	16.7 -	99.0 -	0.0 -	0.0 -	99.0 a	99.0 -	5.0 -	3.3 -	0.0 -
1 NO LIBERTY										
5 SHIELDDEX										
5 PROWL H20										
5 INDUCE										
1 NO PRE	0.0 -	0.0 -	0.0 -	0.0 -	0.0 -	0.0 b	0.0 -	11.7 -	10.0 -	0.0 -
2 LIBERTY										
5 SHIELDDEX										
5 PROWL H20										
5 INDUCE										
2 DUAL II MAGNUM	0.0 -	23.3 -	99.0 -	0.0 -	10.0 -	99.0 a	97.7 -	5.0 -	0.0 -	0.0 -
2 LIBERTY										
5 SHIELDDEX										
5 PROWL H20										
5 INDUCE										
LSD P=.10		11.00	2.74		10.91		2.06	7.50	5.19	
Standard Deviation	0.00	7.25	1.81	0.00	7.19	0.00	1.35	4.94	3.42	0.00
CV	0.00	73.07	3.67	0.00	392.07	0.00	2.75	113.93	81.98	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.

University of Georgia

WEED CONTROL IN FIELD CORN WITHOUT ATRAZINE OR ROUNDUP											
Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION											
Location: PONDER FARM Investigator: Eric P. Prostko											
Weed Code	Rapra	Amapa	Agrass	Zeama	Zeama	Amapa	Rapra	Agrass	Amapa	Rapra	
Crop Code	Control	Control	Control	Stunting	Bleaching	Control	Control	Control	Control	Control	
Rating Data Type	%	%	%	%	%	%	%	%	%	%	
Rating Unit	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	
Rating Date	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.	11	12	13	14	15	16	17	18	19	20	
Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code						
TABLE OF R MEANS											
Replicate 1	20.0	93.2	90.8	1.0	1.5	94.1	55.3	91.3	92.5	56.7	
Replicate 2	20.5	94.1	86.4	1.3	1.0	93.9	53.0	93.5	92.7	54.0	
Replicate 3	26.0	94.1	85.2	4.3	1.8	93.9	63.3	92.9	92.2	62.3	
TABLE OF A (PRE) MEANS											
1 NO PRE	23.2 -	88.5 b	76.1 b	2.5 -	1.5 -	88.8 b	53.8 -	87.0 b	86.3 b	53.1 -	
2 DUAL II MAGNUM 7.64 EC 16.0 oz/a PRE A	21.2 -	99.0 a	98.9 a	1.8 -	1.3 -	99.0 a	60.5 -	98.1 a	98.6 a	62.2 -	
LSD P=.10	2.92	1.65	9.73	2.12	2.43	0.39	7.17	0.67	1.03	9.07	
Standard Deviation	3.87	2.19	12.90	2.81	3.23	0.52	9.51	0.89	1.36	12.03	
CV	17.47	2.34	14.75	129.86	227.82	0.55	16.63	0.97	1.47	20.88	
TABLE OF B (LIBERTY) MEANS											
1 NO LIBERTY	21.8 -	88.5 b	79.7 b	2.5 -	1.5 -	89.0 b	55.3 b	87.4 b	87.8 b	57.9 -	
2 LIBERTY 2.34 SL 32.0 oz/a POST B	22.5 -	99.0 a	95.2 a	1.8 -	1.3 -	98.9 a	59.0 a	97.7 a	97.1 a	57.3 -	
LSD P=.10	0.97	1.65	10.28	3.41	2.71	0.67	2.96	0.67	1.57	2.28	
Standard Deviation	1.29	2.19	13.64	4.52	3.59	0.89	3.93	0.89	2.08	3.02	
CV	5.82	2.34	15.60	208.55	253.69	0.95	6.87	0.97	2.25	5.25	
TABLE OF C (HPPD) MEANS											
1 NO HPPD	5.4 d	74.3 b	71.1 c	0.0 -	0.0 b	74.3 c	18.3 c	73.6 c	73.2 c	3.3 d	
2 CALLISTO 4 SC 3.0 oz/a POST B	33.8 a	99.0 a	93.6 a	2.1 -	1.7 a	98.3 b	87.9 a	95.3 b	96.6 b	92.3 a	
2 PROWL H2O 3.8 SC 32.0 oz/a POST B											
2 INDUCE 0.25 % v/v POST B											
3 LAUDIS 3.5 SC 3.0 oz/a POST B	22.9 c	98.3 a	93.0 a	3.3 -	2.1 a	99.0 a	58.8 b	98.3 a	96.6 b	62.9 bc	
3 PROWL H2O 3.8 SC 32.0 oz/a POST B											
3 INDUCE 0.25 % v/v POST B											
4 IMPACT 2.8 SC 1.25 oz/a POST B	22.5 c	98.7 a	94.4 a	1.7 -	1.3 a	99.0 a	61.3 b	97.3 ab	97.3 ab	70.4 b	
4 PROWL H2O 3.8 SC 32.0 oz/a POST B											
4 INDUCE 0.25 % v/v POST B											
5 SHIELDDEX 3.33 SC 1.35 oz/a POST B	26.3 b	98.7 a	85.3 b	3.8 -	2.1 a	99.0 a	59.6 b	98.0 a	98.6 a	59.2 c	
5 PROWL H2O 3.8 SC 32.0 oz/a POST B											
5 INDUCE 0.25 % v/v POST B											
LSD P=.10	2.88	0.81	5.83	3.36	1.18	0.39	8.23	2.38	1.88	10.71	
Standard Deviation	3.79	1.07	7.68	4.43	1.55	0.52	10.83	3.14	2.48	14.11	
CV	17.10	1.14	8.77	204.24	109.26	0.55	18.95	3.40	2.68	24.48	
TABLE OF A (PRE) B (LIBERTY) MEANS											
1 NO PRE	21.7 b	78.1 b	60.7 b	3.3 a	1.7 -	78.9 b	49.3 b	76.5 b	77.2 c	51.2 d	
1 NO LIBERTY											
2 DUAL II MAGNUM 7.64 EC 16.0 oz/a PRE A	22.0 ab	99.0 a	98.7 a	1.7 b	1.3 -	99.0 a	61.3 a	98.2 a	98.5 a	64.7 a	
1 NO LIBERTY											
1 NO PRE	24.7 a	99.0 a	91.5 a	1.7 b	1.3 -	98.7 a	58.3 a	97.4 a	95.4 b	55.0 c	
2 LIBERTY 2.34 SL 32.0 oz/a POST B											
2 DUAL II MAGNUM 7.64 EC 16.0 oz/a PRE A	20.3 b	99.0 a	99.0 a	2.0 b	1.3 -	99.0 a	59.7 a	97.9 a	98.7 a	59.7 b	
2 LIBERTY 2.34 SL 32.0 oz/a POST B											
LSD P=.10	2.75	2.34	13.61	1.19	0.69	0.95	5.38	1.99	1.13	3.23	
Standard Deviation	2.58	2.19	12.76	1.12	0.65	0.89	5.04	1.86	1.06	3.02	
CV	11.65	2.34	14.59	51.60	45.56	0.95	8.82	2.01	1.14	5.25	
TABLE OF A (PRE) C (HPPD) MEANS											

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 WITHOUT ATRAZINE OR ROUNDUP
 Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code					Rapra	Amapa	Agrass	Zeama	Zeama	Amapa	Rapra	Agrass	Amapa	Rapra		
Crop Code					Control	Control	Control	Stunting	Bleaching	Control	Control	Control	Control	Control		
Rating Data Type					%	%	%	%	%	%	%	%	%	%		
Rating Unit					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		
Rating Date					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 Unit	Grow Stg	Appl Code	11	12	13	14	15	16	17	18	19	20
1	NO PRE						9.2 -	49.5 c	43.2 e	0.0 -	0.0 -	49.5 c	15.0 g	48.2 c	47.3 e	6.7 g
1	NO HPPD															
2	DUAL II MAGNUM	7.64 EC		16.0 oz/a	PRE	A	1.7 -	99.0 a	99.0 a	0.0 -	0.0 -	99.0 a	21.7 f	99.0 a	99.0 a	0.0 g
1	NO HPPD															
1	NO PRE						33.3 -	99.0 a	88.2 c	2.5 -	0.8 -	97.7 b	90.0 a	92.3 b	96.2 c	95.5 a
2	CALLISTO	4 SC		3.0 oz/a	POST	B										
2	PROWL H2O	3.8 SC		32.0 oz/a	POST	B										
2	INDUCE			0.25 % v/v	POST	B										
2	DUAL II MAGNUM	7.64 EC		16.0 oz/a	PRE	A	34.2 -	99.0 a	99.0 a	1.7 -	2.5 -	99.0 a	85.8 a	98.3 a	97.0 bc	89.2 ab
2	CALLISTO	4 SC		3.0 oz/a	POST	B										
2	PROWL H2O	3.8 SC		32.0 oz/a	POST	B										
2	INDUCE			0.25 % v/v	POST	B										
1	NO PRE						23.3 -	97.5 b	87.0 c	3.3 -	2.5 -	99.0 a	59.2 c	98.3 a	94.2 d	58.3 e
3	LAUDIS	3.5 SC		3.0 oz/a	POST	B										
3	PROWL H2O	3.8 SC		32.0 oz/a	POST	B										
3	INDUCE			0.25 % v/v	POST	B										
2	DUAL II MAGNUM	7.64 EC		16.0 oz/a	PRE	A	22.5 -	99.0 a	99.0 a	3.3 -	1.7 -	99.0 a	58.3 cd	98.3 a	99.0 a	67.5 de
3	LAUDIS	3.5 SC		3.0 oz/a	POST	B										
3	PROWL H2O	3.8 SC		32.0 oz/a	POST	B										
3	INDUCE			0.25 % v/v	POST	B										
1	NO PRE						22.5 -	98.3 ab	90.5 bc	3.3 -	2.5 -	99.0 a	53.3 de	97.7 a	95.7 cd	59.2 e
4	IMPACT	2.8 SC		1.25 oz/a	POST	B										
4	PROWL H2O	3.8 SC		32.0 oz/a	POST	B										
4	INDUCE			0.25 % v/v	POST	B										
2	DUAL II MAGNUM	7.64 EC		16.0 oz/a	PRE	A	22.5 -	99.0 a	98.3 ab	0.0 -	0.0 -	99.0 a	69.2 b	97.0 a	99.0 a	81.7 bc
4	IMPACT	2.8 SC		1.25 oz/a	POST	B										
4	PROWL H2O	3.8 SC		32.0 oz/a	POST	B										
4	INDUCE			0.25 % v/v	POST	B										
1	NO PRE						27.5 -	98.3 ab	71.5 d	3.3 -	1.7 -	99.0 a	51.7 e	98.3 a	98.2 ab	45.8 f
5	SHIELDDEX	3.33 SC		1.35 oz/a	POST	B										
5	PROWL H2O	3.8 SC		32.0 oz/a	POST	B										
5	INDUCE			0.25 % v/v	POST	B										
2	DUAL II MAGNUM	7.64 EC		16.0 oz/a	PRE	A	25.0 -	99.0 a	99.0 a	4.2 -	2.5 -	99.0 a	67.5 b	97.7 a	99.0 a	72.5 cd
5	SHIELDDEX	3.33 SC		1.35 oz/a	POST	B										
5	PROWL H2O	3.8 SC		32.0 oz/a	POST	B										
5	INDUCE			0.25 % v/v	POST	B										
LSD P=.10							6.88	1.15	8.47	4.97	2.79	0.55	5.06	3.84	1.68	10.12
Standard Deviation							6.41	1.07	7.89	4.63	2.60	0.52	4.71	3.58	1.57	9.43
CV							28.90	1.14	9.02	213.80	183.68	0.55	8.24	3.87	1.69	16.36
TABLE OF B (LIBERTY) C (HPPD) MEANS																
1	NO LIBERTY						0.0 g	49.5 c	49.5 e	0.0 -	0.0 -	49.5 b	5.8 e	49.5 c	49.5 d	0.0 -
1	NO HPPD															
2	LIBERTY	2.34 SL		32.0 oz/a	POST	B	10.8 f	99.0 a	92.7 bc	0.0 -	0.0 -	99.0 a	30.8 d	97.7 a	96.8 bc	6.7 -
1	NO HPPD															
1	NO LIBERTY						37.5 a	99.0 a	92.8 bc	1.7 -	1.7 -	98.3 a	90.8 a	93.0 b	96.2 c	95.5 -
2	CALLISTO	4 SC		3.0 oz/a	POST	B										
2	PROWL H2O	3.8 SC		32.0 oz/a	POST	B										
2	INDUCE			0.25 % v/v	POST	B										
2	LIBERTY	2.34 SL		32.0 oz/a	POST	B	30.0 b	99.0 a	94.3 ab	2.5 -	1.7 -	98.3 a	85.0 a	97.7 a	97.0 bc	89.2 -
2	CALLISTO	4 SC		3.0 oz/a	POST	B										
2	PROWL H2O	3.8 SC		32.0 oz/a	POST	B										
2	INDUCE			0.25 % 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 WITHOUT ATRAZINE OR ROUNDUP
 Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code				Rapra	Amapa	Agrass	Zeama	Zeama	Amapa	Rapra	Agrass	Amapa	Rapra			
Crop Code				Control	Control	Control	Stunting	Bleaching	Control	Control	Control	Control	Control			
Rating Data Type				%	%	%	%	%	%	%	%	%	%			
Rating Unit				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			
Rating Date				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 Rate Unit	Grow Stg	Appl Code	11	12	13	14	15	16	17	18	19	20
1	NO LIBERTY						22.5 de	97.5 b	87.0 c	5.0 -	2.5 -	99.0 a	57.5 bc	99.0 a	97.0 bc	59.2 -
3	LAUDIS	3.5	SC	3.0 oz/a	POST	B										
3	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
3	INDUCE			0.25 % v/v	POST	B										
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B	23.3 cde	99.0 a	99.0 a	1.7 -	1.7 -	99.0 a	60.0 bc	97.7 a	96.2 c	66.7 -
3	LAUDIS	3.5	SC	3.0 oz/a	POST	B										
3	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
3	INDUCE			0.25 % v/v	POST	B										
1	NO LIBERTY						23.3 cde	98.3 ab	93.8 ab	1.7 -	0.8 -	99.0 a	65.8 b	97.7 a	97.7 ab	77.5 -
4	IMPACT	2.8	SC	1.25 oz/a	POST	B										
4	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
4	INDUCE			0.25 % v/v	POST	B										
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B	21.7 e	99.0 a	95.0 ab	1.7 -	1.7 -	99.0 a	56.7 c	97.0 a	97.0 bc	63.3 -
4	IMPACT	2.8	SC	1.25 oz/a	POST	B										
4	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
4	INDUCE			0.25 % v/v	POST	B										
1	NO LIBERTY						25.8 cd	98.3 ab	75.3 d	4.2 -	2.5 -	99.0 a	56.7 c	97.7 a	98.8 a	57.5 -
5	SHIELDDEX	3.33	SC	1.35 oz/a	POST	B										
5	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
5	INDUCE			0.25 % v/v	POST	B										
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B	26.7 bc	99.0 a	95.2 ab	3.3 -	1.7 -	99.0 a	62.5 bc	98.3 a	98.3 a	60.8 -
5	SHIELDDEX	3.33	SC	1.35 oz/a	POST	B										
5	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
5	INDUCE			0.25 % v/v	POST	B										
LSD P=.10				4.04	1.15	6.05	4.60	2.66	0.96	8.44	3.94	1.32	12.77			
Standard Deviation				3.76	1.07	5.63	4.28	2.48	0.89	7.86	3.67	1.23	11.90			
CV				16.98	1.14	6.44	197.62	174.99	0.95	13.75	3.97	1.33	20.64			
TABLE OF A (PRE) B (LIBERTY) C (HPPD) MEANS																
1	NO PRE						0.0 -	0.0 c	0.0 f	0.0 -	0.0 -	0.0 b	0.0 k	0.0 c	0.0 f	0.0 -
1	NO LIBERTY															
1	NO HPPD															
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	0.0 -	99.0 a	99.0 a	0.0 -	0.0 -	99.0 a	11.7 j	99.0 a	99.0 a	0.0 -
1	NO LIBERTY															
1	NO HPPD															
1	NO PRE						18.3 -	99.0 a	86.3 c	0.0 -	0.0 -	99.0 a	30.0 i	96.3 a	94.7 de	13.3 -
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B										
1	NO HPPD															
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	3.3 -	99.0 a	99.0 a	0.0 -	0.0 -	99.0 a	31.7 i	99.0 a	99.0 a	0.0 -
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B										
1	NO HPPD															
1	NO PRE						36.7 -	99.0 a	86.7 c	3.3 -	1.7 -	97.7 a	90.0 a	88.3 b	96.0 cd	96.0 -
1	NO LIBERTY															
2	CALLISTO	4	SC	3.0 oz/a	POST	B										
2	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
2	INDUCE			0.25 % v/v	POST	B										
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	38.3 -	99.0 a	99.0 a	0.0 -	1.7 -	99.0 a	91.7 a	97.7 a	96.3 bcd	95.0 -
1	NO LIBERTY															
2	CALLISTO	4	SC	3.0 oz/a	POST	B										
2	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
2	INDUCE			0.25 % 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 WITHOUT ATRAZINE OR ROUNDUP
 Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code					Rapra	Amapa	Agrass	Zeama	Zeama	Amapa	Rapra	Agrass	Amapa	Rapra		
Crop Code					Control	Control	Control	Stunting	Bleaching	Control	Control	Control	Control	Control		
Rating Data Type					%	%	%	%	%	%	%	%	%	%		
Rating Unit					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		
Rating Date																
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code										
1	NO PRE						30.0 -	99.0 a	89.7 bc	1.7 -	0.0 -	97.7 a	90.0 a	96.3 a	96.3 bcd	95.0 -
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B										
2	CALLISTO	4	SC	3.0 oz/a	POST	B										
2	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
2	INDUCE			0.25 % v/v	POST	B										
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	30.0 -	99.0 a	99.0 a	3.3 -	3.3 -	99.0 a	80.0 b	99.0 a	97.7 abc	83.3 -
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B										
2	CALLISTO	4	SC	3.0 oz/a	POST	B										
2	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
2	INDUCE			0.25 % v/v	POST	B										
1	NO PRE						23.3 -	96.0 b	75.0 d	6.7 -	3.3 -	99.0 a	55.0 g	99.0 a	95.0 de	48.3 -
1	NO LIBERTY															
3	LAUDIS	3.5	SC	3.0 oz/a	POST	B										
3	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
3	INDUCE			0.25 % v/v	POST	B										
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	21.7 -	99.0 a	99.0 a	3.3 -	1.7 -	99.0 a	60.0 ef	99.0 a	99.0 a	70.0 -
1	NO LIBERTY															
3	LAUDIS	3.5	SC	3.0 oz/a	POST	B										
3	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
3	INDUCE			0.25 % v/v	POST	B										
1	NO PRE						23.3 -	99.0 a	99.0 a	0.0 -	1.7 -	99.0 a	63.3 de	97.7 a	93.3 e	68.3 -
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B										
3	LAUDIS	3.5	SC	3.0 oz/a	POST	B										
3	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
3	INDUCE			0.25 % v/v	POST	B										
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	23.3 -	99.0 a	99.0 a	3.3 -	1.7 -	99.0 a	56.7 fg	97.7 a	99.0 a	65.0 -
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B										
3	LAUDIS	3.5	SC	3.0 oz/a	POST	B										
3	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
3	INDUCE			0.25 % v/v	POST	B										
1	NO PRE						21.7 -	97.7 a	90.0 bc	3.3 -	1.7 -	99.0 a	53.3 g	97.7 a	96.3 bcd	66.7 -
1	NO LIBERTY															
4	IMPACT	2.8	SC	1.25 oz/a	POST	B										
4	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
4	INDUCE			0.25 % v/v	POST	B										
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	25.0 -	99.0 a	97.7 ab	0.0 -	0.0 -	99.0 a	78.3 b	97.7 a	99.0 a	88.3 -
1	NO LIBERTY															
4	IMPACT	2.8	SC	1.25 oz/a	POST	B										
4	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
4	INDUCE			0.25 % v/v	POST	B										
1	NO PRE						23.3 -	99.0 a	91.0 abc	3.3 -	3.3 -	99.0 a	53.3 g	97.7 a	95.0 de	51.7 -
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B										
4	IMPACT	2.8	SC	1.25 oz/a	POST	B										
4	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
4	INDUCE			0.25 % v/v	POST	B										
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	20.0 -	99.0 a	99.0 a	0.0 -	0.0 -	99.0 a	60.0 ef	96.3 a	99.0 a	75.0 -
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B										
4	IMPACT	2.8	SC	1.25 oz/a	POST	B										
4	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
4	INDUCE			0.25 % v/v	POST	B										
1	NO PRE						26.7 -	97.7 a	51.7 e	3.3 -	1.7 -	99.0 a	48.3 h	97.7 a	98.7 ab	45.0 -
1	NO LIBERTY															
5	SHIELDDEX	3.33	SC	1.35 oz/a	POST	B										
5	PROWL H2O	3.8	SC	32.0 oz/a	POST	B										
5	INDUCE			0.25 % 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 WITHOUT ATRAZINE OR ROUNDUP

Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code							Rapra	Amapa	Agrass	Zeama	Zeama	Amapa	Rapra	Agrass	Amapa	Rapra		
Crop Code							Control	Control	Control	Stunting	Bleaching	Control	Control	Control	Control	Control	Control	
Rating Data Type							%	%	%	%	%	%	%	%	%	%	%	%
Rating Unit							Apr-20-23	Apr-20-23	Apr-20-23	May-2-23	May-2-23	May-2-23	May-2-23	May-2-23	May-2-23	Jun-13-23	Jun-13-23	Jun-13-23
Rating Date							Apr-20-23	Apr-20-23	Apr-20-23	May-2-23	May-2-23	May-2-23	May-2-23	May-2-23	May-2-23	Jun-13-23	Jun-13-23	Jun-13-23
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg Code	11	12	13	14	15	16	17	18	19	20		
2	DUAL II MAGNUM	7.64	EC	16.0	oz/a	PRE A	25.0 -	99.0 a	99.0 a	5.0 -	3.3 -	99.0 a	65.0 d	97.7 a	99.0 a	70.0 -		
1	NO LIBERTY																	
5	SHIELDDEX	3.33	SC	1.35	oz/a	POST B												
5	PROWL H20	3.8	SC	32.0	oz/a	POST B												
5	INDUCE			0.25	% v/v	POST B												
1	NO PRE						28.3 -	99.0 a	91.3 abc	3.3 -	1.7 -	99.0 a	55.0 g	99.0 a	97.7 abc	46.7 -		
2	LIBERTY	2.34	SL	32.0	oz/a	POST B												
5	SHIELDDEX	3.33	SC	1.35	oz/a	POST B												
5	PROWL H20	3.8	SC	32.0	oz/a	POST B												
5	INDUCE			0.25	% v/v	POST B												
2	DUAL II MAGNUM	7.64	EC	16.0	oz/a	PRE A	25.0 -	99.0 a	99.0 a	3.3 -	1.7 -	99.0 a	70.0 c	97.7 a	99.0 a	75.0 -		
2	LIBERTY	2.34	SL	32.0	oz/a	POST B												
5	SHIELDDEX	3.33	SC	1.35	oz/a	POST B												
5	PROWL H20	3.8	SC	32.0	oz/a	POST B												
5	INDUCE			0.25	% v/v	POST B												
LSD P=.10							7.65	1.63	8.46	5.84	3.43	1.36	4.36	3.55	2.39	15.35		
Standard Deviation							5.04	1.07	5.57	3.85	2.26	0.89	2.87	2.34	1.57	10.11		
CV							22.74	1.14	6.37	177.51	159.48	0.95	5.02	2.53	1.70	17.54		

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 WITHOUT ATRAZINE OR ROUNDUP
 Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code	Amapa	Agrass	TOTAL WEED	----- ZEAMA	----- ZEAMA
Crop Code	Control	Control	Cover	YIELD	YIELD
Rating Data Type	%	%	%	LBS/PLOT	BU/A
Rating Unit	Aug-18-23	Aug-18-23	Aug-18-23	Sep-5-23	Sep-5-23
Rating Date	21	22	23	24	25
TABLE OF R MEANS					
Replicate 1	90.4	65.5	48.3	50.3	261
Replicate 2	88.8	60.0	47.5	47.9	248
Replicate 3	87.1	60.0	49.8	47.3	245
TABLE OF A (PRE) MEANS					
1 NO PRE	83.0 b	50.2 b	56.3 a	48.3 -	251 -
2 DUAL II MAGNUM 7.64 EC 16.0 oz/a PRE A	94.5 a	73.5 a	40.7 b	48.6 -	252 -
LSD P=.10	2.23	6.81	7.17	1.27	6.6
Standard Deviation	2.95	9.04	9.51	1.68	8.7
CV	3.33	14.62	19.61	3.47	3.5
TABLE OF B (LIBERTY) MEANS					
1 NO LIBERTY	83.7 b	57.7 -	52.7 a	48.9 -	254 -
2 LIBERTY 2.34 SL 32.0 oz/a POST B	93.8 a	66.0 -	44.3 b	48.1 -	249 -
LSD P=.10	0.83	16.89	7.65	1.84	9.5
Standard Deviation	1.10	22.40	10.14	2.43	12.6
CV	1.24	36.22	20.92	5.02	5.0
TABLE OF C (HPPD) MEANS					
1 NO HPPD	70.0 c	48.3 c	56.3 -	44.9 b	233 b
2 CALLISTO 4 SC 3.0 oz/a POST B	92.3 b	67.5 a	51.3 -	50.1 a	260 a
2 PROWL H2O 3.8 SC 32.0 oz/a POST B					
2 INDUCE 0.25 % v/v POST B					
3 LAUDIS 3.5 SC 3.0 oz/a POST B	92.3 b	72.5 a	42.9 -	49.2 a	255 a
3 PROWL H2O 3.8 SC 32.0 oz/a POST B					
3 INDUCE 0.25 % v/v POST B					
4 IMPACT 2.8 SC 1.25 oz/a POST B	94.2 ab	63.8 ab	42.5 -	49.8 a	259 a
4 PROWL H2O 3.8 SC 32.0 oz/a POST B					
4 INDUCE 0.25 % v/v POST B					
5 SHIELDDEX 3.33 SC 1.35 oz/a POST B	95.0 a	57.1 bc	49.6 -	48.4 a	251 a
5 PROWL H2O 3.8 SC 32.0 oz/a POST B					
5 INDUCE 0.25 % v/v POST B					
LSD P=.10	1.97	8.87	9.84	2.22	11.5
Standard Deviation	2.59	11.69	12.96	2.93	15.2
CV	2.92	18.90	26.72	6.03	6.0
TABLE OF A (PRE) B (LIBERTY) MEANS					
1 NO PRE	73.2 b	42.7 -	61.7 -	48.3 -	250 -
1 NO LIBERTY					
2 DUAL II MAGNUM 7.64 EC 16.0 oz/a PRE A	94.2 a	72.7 -	43.7 -	49.5 -	257 -
1 NO LIBERTY					
1 NO PRE	92.7 a	57.7 -	51.0 -	48.4 -	251 -
2 LIBERTY 2.34 SL 32.0 oz/a POST B					
2 DUAL II MAGNUM 7.64 EC 16.0 oz/a PRE A	94.8 a	74.3 -	37.7 -	47.8 -	248 -
2 LIBERTY 2.34 SL 32.0 oz/a POST B					
LSD P=.10	2.48	12.23	4.82	3.63	18.8
Standard Deviation	2.33	11.47	4.52	3.40	17.7
CV	2.62	18.56	9.32	7.02	7.0
TABLE OF A (PRE) C (HPPD) MEANS					

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 WITHOUT ATRAZINE OR ROUNDUP
 Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code						Amapa	Agrass	TOTAL	-----	-----	
Crop Code						Control	Control	WEED	ZEAMA	ZEAMA	
Rating Data Type						%	%	Cover	YIELD	YIELD	
Rating Unit						Aug-18-23	Aug-18-23	Aug-18-23	LBS/PLOT	BU/A	
Rating Date						Aug-18-23	Aug-18-23	Aug-18-23	Sep-5-23	Sep-5-23	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	21	22	23	24	25
1	NO PRE						45.0 c	24.2 e	73.3 a	43.7 -	227 -
1	NO HPPD										
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	95.0 a	72.5 a	39.2 c	46.2 -	240 -
1	NO HPPD										
1	NO PRE						89.5 b	60.8 bc	50.0 b	50.2 -	260 -
2	CALLISTO	4	SC	3.0 oz/a	POST	B					
2	PROWL H2O	3.8	SC	32.0 oz/a	POST	B					
2	INDUCE			0.25 % v/v	POST	B					
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	95.0 a	74.2 a	52.5 b	50.0 -	259 -
2	CALLISTO	4	SC	3.0 oz/a	POST	B					
2	PROWL H2O	3.8	SC	32.0 oz/a	POST	B					
2	INDUCE			0.25 % v/v	POST	B					
1	NO PRE						90.3 b	70.0 ab	50.0 b	49.8 -	259 -
3	LAUDIS	3.5	SC	3.0 oz/a	POST	B					
3	PROWL H2O	3.8	SC	32.0 oz/a	POST	B					
3	INDUCE			0.25 % v/v	POST	B					
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	94.2 a	75.0 a	35.8 c	48.5 -	252 -
3	LAUDIS	3.5	SC	3.0 oz/a	POST	B					
3	PROWL H2O	3.8	SC	32.0 oz/a	POST	B					
3	INDUCE			0.25 % v/v	POST	B					
1	NO PRE						94.2 a	55.8 c	50.0 b	50.3 -	261 -
4	IMPACT	2.8	SC	1.25 oz/a	POST	B					
4	PROWL H2O	3.8	SC	32.0 oz/a	POST	B					
4	INDUCE			0.25 % v/v	POST	B					
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	94.2 a	71.7 a	35.0 c	49.3 -	256 -
4	IMPACT	2.8	SC	1.25 oz/a	POST	B					
4	PROWL H2O	3.8	SC	32.0 oz/a	POST	B					
4	INDUCE			0.25 % v/v	POST	B					
1	NO PRE						95.8 a	40.0 d	58.3 b	47.7 -	247 -
5	SHIELDDEX	3.33	SC	1.35 oz/a	POST	B					
5	PROWL H2O	3.8	SC	32.0 oz/a	POST	B					
5	INDUCE			0.25 % v/v	POST	B					
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	94.2 a	74.2 a	40.8 c	49.1 -	255 -
5	SHIELDDEX	3.33	SC	1.35 oz/a	POST	B					
5	PROWL H2O	3.8	SC	32.0 oz/a	POST	B					
5	INDUCE			0.25 % v/v	POST	B					
LSD P=.10						3.22	9.98	8.82	4.37	22.7	
Standard Deviation						3.00	9.29	8.22	4.07	21.1	
CV						3.38	15.03	16.94	8.39	8.4	
TABLE OF B (LIBERTY) C (HPPD) MEANS											
1	NO LIBERTY						47.5 c	38.3 -	65.8 -	42.5 d	221 d
1	NO HPPD										
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B	92.5 ab	58.3 -	46.7 -	47.3 c	246 c
1	NO HPPD										
1	NO LIBERTY						92.0 ab	62.5 -	54.2 -	51.0 ab	265 ab
2	CALLISTO	4	SC	3.0 oz/a	POST	B					
2	PROWL H2O	3.8	SC	32.0 oz/a	POST	B					
2	INDUCE			0.25 % v/v	POST	B					
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B	92.5 ab	72.5 -	48.3 -	49.2 abc	255 abc
2	CALLISTO	4	SC	3.0 oz/a	POST	B					
2	PROWL H2O	3.8	SC	32.0 oz/a	POST	B					
2	INDUCE			0.25 % v/v	POST	B					

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
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University of Georgia

WEED CONTROL IN FIELD CORN WITHOUT ATRAZINE OR ROUNDUP
 Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code					Amapa	Agrass	TOTAL	-----	-----		
Crop Code					Control	Control	WEED	ZEAMA	ZEAMA		
Rating Data Type					%	%	Cover	YIELD	YIELD		
Rating Unit					%	%	%	LBS/PLOT	BU/A		
Rating Date					Aug-18-23	Aug-18-23	Aug-18-23	Sep-5-23	Sep-5-23		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	21	22	23	24	25
1	NO LIBERTY						90.8 b	70.8 -	46.7 -	50.0 abc	259 abc
3	LAUDIS	3.5	SC	3.0 oz/a		POST B					
3	PROWL H2O	3.8	SC	32.0 oz/a		POST B					
3	INDUCE			0.25 % v/v		POST B					
2	LIBERTY	2.34	SL	32.0 oz/a		POST B	93.7 ab	74.2 -	39.2 -	48.3 abc	251 abc
3	LAUDIS	3.5	SC	3.0 oz/a		POST B					
3	PROWL H2O	3.8	SC	32.0 oz/a		POST B					
3	INDUCE			0.25 % v/v		POST B					
1	NO LIBERTY						93.8 ab	65.0 -	45.0 -	51.5 a	267 a
4	IMPACT	2.8	SC	1.25 oz/a		POST B					
4	PROWL H2O	3.8	SC	32.0 oz/a		POST B					
4	INDUCE			0.25 % v/v		POST B					
2	LIBERTY	2.34	SL	32.0 oz/a		POST B	94.5 ab	62.5 -	40.0 -	48.2 bc	250 bc
4	IMPACT	2.8	SC	1.25 oz/a		POST B					
4	PROWL H2O	3.8	SC	32.0 oz/a		POST B					
4	INDUCE			0.25 % v/v		POST B					
1	NO LIBERTY						94.3 ab	51.7 -	51.7 -	49.3 abc	256 abc
5	SHIELDEX	3.33	SC	1.35 oz/a		POST B					
5	PROWL H2O	3.8	SC	32.0 oz/a		POST B					
5	INDUCE			0.25 % v/v		POST B					
2	LIBERTY	2.34	SL	32.0 oz/a		POST B	95.7 a	62.5 -	47.5 -	47.4 c	246 c
5	SHIELDEX	3.33	SC	1.35 oz/a		POST B					
5	PROWL H2O	3.8	SC	32.0 oz/a		POST B					
5	INDUCE			0.25 % v/v		POST B					
LSD P=.10					3.69	13.51	12.19	3.22	16.7		
Standard Deviation					3.44	12.59	11.36	3.00	15.6		
CV					3.87	20.36	23.41	6.19	6.2		
TABLE OF A (PRE) B (LIBERTY) C (HPPD) MEANS											
1	NO PRE						0.0 e	0.0 e	95.0 a	39.0 h	202 h
1	NO LIBERTY										
1	NO HPPD										
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a		PRE A	95.0 a	76.7 a	36.7 hi	46.0 fg	239 fg
1	NO LIBERTY										
1	NO HPPD										
1	NO PRE						90.0 bcd	48.3 bcd	51.7 cde	48.3 b-g	251 b-g
2	LIBERTY	2.34	SL	32.0 oz/a		POST B					
1	NO HPPD										
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a		PRE A	95.0 a	68.3 abc	41.7 fgh	46.3 efg	240 efg
2	LIBERTY	2.34	SL	32.0 oz/a		POST B					
1	NO HPPD										
1	NO PRE						89.0 cd	48.3 bcd	55.0 bc	51.0 ab	265 ab
1	NO LIBERTY										
2	CALLISTO	4	SC	3.0 oz/a		POST B					
2	PROWL H2O	3.8	SC	32.0 oz/a		POST B					
2	INDUCE			0.25 % v/v		POST B					
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a		PRE A	95.0 a	76.7 a	53.3 bcd	51.0 ab	265 ab
1	NO LIBERTY										
2	CALLISTO	4	SC	3.0 oz/a		POST B					
2	PROWL H2O	3.8	SC	32.0 oz/a		POST B					
2	INDUCE			0.25 % v/v		POST B					

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University of Georgia

WEED CONTROL IN FIELD CORN WITHOUT ATRAZINE OR ROUNDUP
 Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code					Amapa	Agrass	TOTAL	-----	-----		
Crop Code					Control	Control	WEED	ZEAMA	ZEAMA		
Rating Data Type					%	%	Cover	YIELD	YIELD		
Rating Unit					%	%	%	LBS/PLOT	BU/A		
Rating Date					Aug-18-23	Aug-18-23	Aug-18-23	Sep-5-23	Sep-5-23		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	21	22	23	24	25
1	NO PRE						90.0 bcd	73.3 a	45.0 d-h	49.3 a-e	256 a-e
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B					
2	CALLISTO	4	SC	3.0 oz/a	POST	B					
2	PROWL H2O	3.8	SC	32.0 oz/a	POST	B					
2	INDUCE			0.25 % v/v	POST	B					
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	95.0 a	71.7 a	51.7 cde	49.0 a-f	254 a-f
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B					
2	CALLISTO	4	SC	3.0 oz/a	POST	B					
2	PROWL H2O	3.8	SC	32.0 oz/a	POST	B					
2	INDUCE			0.25 % v/v	POST	B					
1	NO PRE						88.3 d	68.3 abc	50.0 c-f	49.7 a-d	258 a-d
1	NO LIBERTY										
3	LAUDIS	3.5	SC	3.0 oz/a	POST	B					
3	PROWL H2O	3.8	SC	32.0 oz/a	POST	B					
3	INDUCE			0.25 % v/v	POST	B					
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	93.3 abc	73.3 a	43.3 e-h	50.3 abc	261 abc
1	NO LIBERTY										
3	LAUDIS	3.5	SC	3.0 oz/a	POST	B					
3	PROWL H2O	3.8	SC	32.0 oz/a	POST	B					
3	INDUCE			0.25 % v/v	POST	B					
1	NO PRE						92.3 a-d	71.7 a	50.0 c-f	50.0 abc	259 abc
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B					
3	LAUDIS	3.5	SC	3.0 oz/a	POST	B					
3	PROWL H2O	3.8	SC	32.0 oz/a	POST	B					
3	INDUCE			0.25 % v/v	POST	B					
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	95.0 a	76.7 a	28.3 ij	46.7 d-g	242 d-g
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B					
3	LAUDIS	3.5	SC	3.0 oz/a	POST	B					
3	PROWL H2O	3.8	SC	32.0 oz/a	POST	B					
3	INDUCE			0.25 % v/v	POST	B					
1	NO PRE						93.3 abc	63.3 abc	46.7 c-g	51.7 a	268 a
1	NO LIBERTY										
4	IMPACT	2.8	SC	1.25 oz/a	POST	B					
4	PROWL H2O	3.8	SC	32.0 oz/a	POST	B					
4	INDUCE			0.25 % v/v	POST	B					
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	94.3 ab	66.7 abc	43.3 e-h	51.3 ab	266 ab
1	NO LIBERTY										
4	IMPACT	2.8	SC	1.25 oz/a	POST	B					
4	PROWL H2O	3.8	SC	32.0 oz/a	POST	B					
4	INDUCE			0.25 % v/v	POST	B					
1	NO PRE						95.0 a	48.3 bcd	53.3 bcd	49.0 a-f	254 a-f
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B					
4	IMPACT	2.8	SC	1.25 oz/a	POST	B					
4	PROWL H2O	3.8	SC	32.0 oz/a	POST	B					
4	INDUCE			0.25 % v/v	POST	B					
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	94.0 ab	76.7 a	26.7 j	47.3 c-g	246 c-g
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B					
4	IMPACT	2.8	SC	1.25 oz/a	POST	B					
4	PROWL H2O	3.8	SC	32.0 oz/a	POST	B					
4	INDUCE			0.25 % v/v	POST	B					
1	NO PRE						95.3 a	33.3 d	61.7 b	50.0 abc	259 abc
1	NO LIBERTY										
5	SHIELDDEX	3.33	SC	1.35 oz/a	POST	B					
5	PROWL H2O	3.8	SC	32.0 oz/a	POST	B					
5	INDUCE			0.25 % 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 WITHOUT ATRAZINE OR ROUNDUP

Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code						Amapa	Agrass	TOTAL	-----	-----	
Crop Code						Control	Control	WEED	ZEAMA	ZEAMA	
Rating Data Type						%	%	Cover	YIELD	YIELD	
Rating Unit						%	%	%	LBS/PLOT	BU/A	
Rating Date						Aug-18-23	Aug-18-23	Aug-18-23	Sep-5-23	Sep-5-23	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code	21	22	23	24	25
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	93.3 abc	70.0 ab	41.7 fgh	48.7 a-f	253 a-f
1	NO LIBERTY										
5	SHIELDDEX	3.33	SC	1.35 oz/a	POST	B					
5	PROWL H20	3.8	SC	32.0 oz/a	POST	B					
5	INDUCE			0.25 % v/v	POST	B					
1	NO PRE						96.3 a	46.7 cd	55.0 bc	45.3 g	235 g
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B					
5	SHIELDDEX	3.33	SC	1.35 oz/a	POST	B					
5	PROWL H20	3.8	SC	32.0 oz/a	POST	B					
5	INDUCE			0.25 % v/v	POST	B					
2	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A	95.0 a	78.3 a	40.0 gh	49.5 a-e	257 a-e
2	LIBERTY	2.34	SL	32.0 oz/a	POST	B					
5	SHIELDDEX	3.33	SC	1.35 oz/a	POST	B					
5	PROWL H20	3.8	SC	32.0 oz/a	POST	B					
5	INDUCE			0.25 % v/v	POST	B					
LSD P=.10							4.48	22.56	9.63	3.32	17.2
Standard Deviation							2.95	14.86	6.34	2.15	11.1
CV							3.32	24.03	13.07	4.43	4.4

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 WITHOUT ATRAZINE OR ROUNDUP

Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 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	59	0.000000				
R	2	0.000000	0.000000	0.000	1.0000	
A	1	0.000000	0.000000	0.000	1.0000	
RA	2	0.000000	0.000000			
B	1	0.000000	0.000000	0.000	1.0000	
RB	2	0.000000	0.000000			
AB	1	0.000000	0.000000	0.000	1.0000	
RAB	2	0.000000	0.000000			
C	4	0.000000	0.000000	0.000	1.0000	
RC	8	0.000000	0.000000			
AC	4	0.000000	0.000000	0.000	1.0000	
RAC	8	0.000000	0.000000			
BC	4	0.000000	0.000000	0.000	1.0000	
RBC	8	0.000000	0.000000			
ABC	4	0.000000	0.000000	0.000	1.0000	
RABC	8	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	59	8824.583333				
R	2	140.833333	70.416667	1.341	0.3145	
A	1	5900.416667	5900.416667	83.793	0.0117	6.3
RA	2	140.833333	70.416667			
B	1	3.750000	3.750000	0.429	0.5799	2.2
RB	2	17.500000	8.750000			
AB	1	3.750000	3.750000	0.429	0.5799	3.2
RAB	2	17.500000	8.750000			
C	4	118.333333	29.583333	0.530	0.7178	5.7
RC	8	446.666667	55.833333			
AC	4	118.333333	29.583333	0.530	0.7178	8.0
RAC	8	446.666667	55.833333			
BC	4	315.000000	78.750000	1.500	0.2894	7.8
RBC	8	420.000000	52.500000			
ABC	4	315.000000	78.750000	1.500	0.2894	11.0
RABC	8	420.000000	52.500000			

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	59	145821.733333				
R	2	6.533333	3.266667	1.000	0.4096	
A	1	145632.266667	145632.266667	44581.306	0.0001	1.4
RA	2	6.533333	3.266667			
B	1	3.266667	3.266667	1.000	0.4226	1.4
RB	2	6.533333	3.266667			
AB	1	3.266667	3.266667	1.000	0.4226	1.9
RAB	2	6.533333	3.266667			
C	4	13.066667	3.266667	1.000	0.4609	1.4
RC	8	26.133333	3.266667			
AC	4	13.066667	3.266667	1.000	0.4609	1.9
RAC	8	26.133333	3.266667			
BC	4	13.066667	3.266667	1.000	0.4609	1.9
RBC	8	26.133333	3.266667			
ABC	4	13.066667	3.266667	1.000	0.4609	2.7
RABC	8	26.133333	3.266667			

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 WITHOUT ATRAZINE OR ROUNDUP

Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 Location: PONDER FARM Investigator: Eric P. Prostko

COMPLETE FACTORIAL AOV For Zeama Stunting % Apr-12-23 (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	59	0.000000				
R	2	0.000000	0.000000	0.000	1.0000	
A	1	0.000000	0.000000	0.000	1.0000	.
RA	2	0.000000	0.000000			
B	1	0.000000	0.000000	0.000	1.0000	.
RB	2	0.000000	0.000000			
AB	1	0.000000	0.000000	0.000	1.0000	.
RAB	2	0.000000	0.000000			
C	4	0.000000	0.000000	0.000	1.0000	.
RC	8	0.000000	0.000000			
AC	4	0.000000	0.000000	0.000	1.0000	.
RAC	8	0.000000	0.000000			
BC	4	0.000000	0.000000	0.000	1.0000	.
RBC	8	0.000000	0.000000			
ABC	4	0.000000	0.000000	0.000	1.0000	.
RABC	8	0.000000	0.000000			

COMPLETE FACTORIAL AOV For Rapra Control % Apr-12-23 (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	59	4098.333333				
R	2	103.333333	51.666667	1.000	0.4096	
A	1	201.666667	201.666667	3.903	0.1869	5.4
RA	2	103.333333	51.666667			
B	1	1.666667	1.666667	0.011	0.9261	9.3
RB	2	303.333333	151.666667			
AB	1	1.666667	1.666667	0.011	0.9261	13.1
RAB	2	303.333333	151.666667			
C	4	156.666667	39.166667	0.511	0.7302	6.6
RC	8	613.333333	76.666667			
AC	4	156.666667	39.166667	0.511	0.7302	9.4
RAC	8	613.333333	76.666667			
BC	4	356.666667	89.166667	1.726	0.2369	7.7
RBC	8	413.333333	51.666667			
ABC	4	356.666667	89.166667	1.726	0.2369	10.9
RABC	8	413.333333	51.666667			

COMPLETE FACTORIAL AOV For Amapa Control % Apr-12-23 (Data Column 6)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	59	147015.000000				
R	2	0.000000	0.000000	0.000	1.0000	
A	1	147015.000000	147015.000000	0.000	1.0000	.
RA	2	0.000000	0.000000			
B	1	0.000000	0.000000	0.000	1.0000	.
RB	2	0.000000	0.000000			
AB	1	0.000000	0.000000	0.000	1.0000	.
RAB	2	0.000000	0.000000			
C	4	0.000000	0.000000	0.000	1.0000	.
RC	8	0.000000	0.000000			
AC	4	0.000000	0.000000	0.000	1.0000	.
RAC	8	0.000000	0.000000			
BC	4	0.000000	0.000000	0.000	1.0000	.
RBC	8	0.000000	0.000000			
ABC	4	0.000000	0.000000	0.000	1.0000	.
RABC	8	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 WITHOUT ATRAZINE OR ROUNDUP

Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 Location: PONDER FARM Investigator: Eric P. Prostko

COMPLETE FACTORIAL AOV For Agrass Control % Apr-12-23 (Data Column 7)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	59	145057.650000				
R	2	4.300000	2.150000	1.173	0.3576	
A	1	144943.350000	144943.350000	67415.512	0.0001	1.1
RA	2	4.300000	2.150000			
B	1	0.416667	0.416667	1.000	0.4226	0.5
RB	2	0.833333	0.416667			
AB	1	0.416667	0.416667	1.000	0.4226	0.7
RAB	2	0.833333	0.416667			
C	4	9.400000	2.350000	1.679	0.2469	0.9
RC	8	11.200000	1.400000			
AC	4	9.400000	2.350000	1.679	0.2469	1.3
RAC	8	11.200000	1.400000			
BC	4	16.333333	4.083333	2.227	0.1557	1.5
RBC	8	14.666667	1.833333			
ABC	4	16.333333	4.083333	2.227	0.1557	2.1
RABC	8	14.666667	1.833333			

COMPLETE FACTORIAL AOV For Zeama Stunting % Apr-20-23 (Data Column 8)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	59	1773.333333				
R	2	25.833333	12.916667	0.530	0.6080	
A	1	60.000000	60.000000	1.920	0.3001	4.2
RA	2	62.500000	31.250000			
B	1	41.666667	41.666667	2.703	0.2419	3.0
RB	2	30.833333	15.416667			
AB	1	1.666667	1.666667	4.000	0.1835	0.7
RAB	2	0.833333	0.416667			
C	4	360.833333	90.208333	3.409	0.0658	3.9
RC	8	211.666667	26.458333			
AC	4	127.500000	31.875000	1.020	0.4522	6.0
RAC	8	250.000000	31.250000			
BC	4	112.500000	28.125000	0.938	0.4892	5.9
RBC	8	240.000000	30.000000			
ABC	4	52.500000	13.125000	0.538	0.7123	7.5
RABC	8	195.000000	24.375000			

COMPLETE FACTORIAL AOV For Zeama Chlorosis % Apr-20-23 (Data Column 9)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	59	1458.333333				
R	2	13.333333	6.666667	0.571	0.5862	
A	1	41.666667	41.666667	6.250	0.1296	1.9
RA	2	13.333333	6.666667			
B	1	15.000000	15.000000	0.750	0.4778	3.4
RB	2	40.000000	20.000000			
AB	1	15.000000	15.000000	0.750	0.4778	4.8
RAB	2	40.000000	20.000000			
C	4	366.666667	91.666667	4.783	0.0289	3.3
RC	8	153.333333	19.166667			
AC	4	166.666667	41.666667	1.316	0.3425	6.0
RAC	8	253.333333	31.666667			
BC	4	60.000000	15.000000	2.000	0.1875	2.9
RBC	8	60.000000	7.500000			
ABC	4	126.666667	31.666667	2.714	0.1070	5.2
RABC	8	93.333333	11.666667			

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 WITHOUT ATRAZINE OR ROUNDUP

Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 Location: PONDER FARM Investigator: Eric P. Prostko

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

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	59	0.000000				
R	2	0.000000	0.000000	0.000	1.0000	
A	1	0.000000	0.000000	0.000	1.0000	
RA	2	0.000000	0.000000			
B	1	0.000000	0.000000	0.000	1.0000	
RB	2	0.000000	0.000000			
AB	1	0.000000	0.000000	0.000	1.0000	
RAB	2	0.000000	0.000000			
C	4	0.000000	0.000000	0.000	1.0000	
RC	8	0.000000	0.000000			
AC	4	0.000000	0.000000	0.000	1.0000	
RAC	8	0.000000	0.000000			
BC	4	0.000000	0.000000	0.000	1.0000	
RBC	8	0.000000	0.000000			
ABC	4	0.000000	0.000000	0.000	1.0000	
RABC	8	0.000000	0.000000			

COMPLETE FACTORIAL AOV For Rapra Control % Apr-20-23 (Data Column 11)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	59	7368.333333				
R	2	443.333333	221.666667	8.721	0.0098	
A	1	60.000000	60.000000	4.000	0.1835	2.9
RA	2	30.000000	15.000000			
B	1	6.666667	6.666667	4.000	0.1835	1.0
RB	2	3.333333	1.666667			
AB	1	81.666667	81.666667	12.250	0.0728	2.8
RAB	2	13.333333	6.666667			
C	4	5185.000000	1296.250000	90.174	0.0001	2.9
RC	8	115.000000	14.375000			
AC	4	131.666667	32.916667	0.802	0.5567	6.9
RAC	8	328.333333	41.041667			
BC	4	526.666667	131.666667	9.294	0.0042	4.0
RBC	8	113.333333	14.166667			
ABC	4	126.666667	31.666667	1.246	0.3654	7.7
RABC	8	203.333333	25.416667			

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

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	59	27872.733333				
R	2	9.633333	4.816667	4.188	0.0569	
A	1	1643.266667	1643.266667	341.163	0.0029	1.7
RA	2	9.633333	4.816667			
B	1	1643.266667	1643.266667	341.163	0.0029	1.7
RB	2	9.633333	4.816667			
AB	1	1643.266667	1643.266667	341.163	0.0029	2.3
RAB	2	9.633333	4.816667			
C	4	5716.900000	1429.225000	1242.804	0.0001	0.8
RC	8	9.200000	1.150000			
AC	4	5716.900000	1429.225000	1242.804	0.0001	1.2
RAC	8	9.200000	1.150000			
BC	4	5716.900000	1429.225000	1242.804	0.0001	1.2
RBC	8	9.200000	1.150000			
ABC	4	5716.900000	1429.225000	1242.804	0.0001	1.6
RABC	8	9.200000	1.150000			

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 WITHOUT ATRAZINE OR ROUNDUP

Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 Location: PONDER FARM Investigator: Eric P. Prostko

COMPLETE FACTORIAL AOV For Agrass Control % Apr-20-23 (Data Column 13)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	59	34536.933333				
R	2	347.733333	173.866667	5.603	0.0301	
A	1	7797.600000	7797.600000	46.861	0.0207	9.7
RA	2	332.800000	166.400000			
B	1	3619.266667	3619.266667	19.451	0.0478	10.3
RB	2	372.133333	186.066667			
AB	1	3496.066667	3496.066667	21.466	0.0436	13.6
RAB	2	325.733333	162.866667			
C	4	4675.933333	1168.983333	19.844	0.0003	5.8
RC	8	471.266667	58.908333			
AC	4	4791.400000	1197.850000	19.235	0.0004	8.5
RAC	8	498.200000	62.275000			
BC	4	3593.733333	898.433333	28.312	0.0001	6.0
RBC	8	253.866667	31.733333			
ABC	4	3712.933333	928.233333	29.911	0.0001	8.5
RABC	8	248.266667	31.033333			

COMPLETE FACTORIAL AOV For Zeama Stunting % May-2-23 (Data Column 14)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	59	1018.333333				
R	2	130.833333	65.416667	4.423	0.0509	
A	1	6.666667	6.666667	0.842	0.4557	2.1
RA	2	15.833333	7.916667			
B	1	6.666667	6.666667	0.327	0.6254	3.4
RB	2	40.833333	20.416667			
AB	1	15.000000	15.000000	12.000	0.0742	1.2
RAB	2	2.500000	1.250000			
C	4	105.833333	26.458333	1.351	0.3315	3.4
RC	8	156.666667	19.583333			
AC	4	30.833333	7.708333	0.359	0.8310	5.0
RAC	8	171.666667	21.458333			
BC	4	30.833333	7.708333	0.420	0.7901	4.6
RBC	8	146.666667	18.333333			
ABC	4	39.166667	9.791667	0.662	0.6356	5.8
RABC	8	118.333333	14.791667			

COMPLETE FACTORIAL AOV For Zeama Bleaching % May-2-23 (Data Column 15)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	59	304.583333				
R	2	5.833333	2.916667	0.571	0.5862	
A	1	0.416667	0.416667	0.040	0.8600	2.4
RA	2	20.833333	10.416667			
B	1	0.416667	0.416667	0.032	0.8740	2.7
RB	2	25.833333	12.916667			
AB	1	0.416667	0.416667	1.000	0.4226	0.7
RAB	2	0.833333	0.416667			
C	4	35.833333	8.958333	3.739	0.0532	1.2
RC	8	19.166667	2.395833			
AC	4	30.833333	7.708333	1.138	0.4042	2.8
RAC	8	54.166667	6.770833			
BC	4	5.833333	1.458333	0.237	0.9095	2.7
RBC	8	49.166667	6.145833			
ABC	4	14.166667	3.541667	0.694	0.6168	3.4
RABC	8	40.833333	5.104167			

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 WITHOUT ATRAZINE OR ROUNDUP

Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 Location: PONDER FARM Investigator: Eric P. Prostko

COMPLETE FACTORIAL AOV For Amapa Control % May-2-23 (Data Column 16)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	59	27884.583333				
R	2	0.533333	0.266667	0.333	0.7260	
A	1	1550.416667	1550.416667	5814.063	0.0002	0.4
RA	2	0.533333	0.266667			
B	1	1470.150000	1470.150000	1837.688	0.0005	0.7
RB	2	1.600000	0.800000			
AB	1	1470.150000	1470.150000	1837.688	0.0005	1.0
RAB	2	1.600000	0.800000			
C	4	5805.666667	1451.416667	5442.813	0.0001	0.4
RC	8	2.133333	0.266667			
AC	4	5805.666667	1451.416667	5442.813	0.0001	0.6
RAC	8	2.133333	0.266667			
BC	4	5880.600000	1470.150000	1837.688	0.0001	1.0
RBC	8	6.400000	0.800000			
ABC	4	5880.600000	1470.150000	1837.688	0.0001	1.4
RABC	8	6.400000	0.800000			

COMPLETE FACTORIAL AOV For Rapra Control % May-2-23 (Data Column 17)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	59	37418.333333				
R	2	1160.833333	580.416667	70.532	0.0001	
A	1	666.666667	666.666667	7.373	0.1131	7.2
RA	2	180.833333	90.416667			
B	1	201.666667	201.666667	13.081	0.0687	3.0
RB	2	30.833333	15.416667			
AB	1	426.666667	426.666667	16.787	0.0547	5.4
RAB	2	50.833333	25.416667			
C	4	29743.333333	7435.833333	63.340	0.0001	8.2
RC	8	939.166667	117.395833			
AC	4	1025.000000	256.250000	11.549	0.0021	5.1
RAC	8	177.500000	22.187500			
BC	4	2148.333333	537.083333	8.695	0.0052	8.4
RBC	8	494.166667	61.770833			
ABC	4	106.666667	26.666667	3.241	0.0737	4.4
RABC	8	65.833333	8.229167			

COMPLETE FACTORIAL AOV For Agrass Control % May-2-23 (Data Column 18)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	59	27728.983333				
R	2	51.733333	25.866667	4.732	0.0440	
A	1	1848.150000	1848.150000	2310.188	0.0004	0.7
RA	2	1.600000	0.800000			
B	1	1591.350000	1591.350000	1989.188	0.0005	0.7
RB	2	1.600000	0.800000			
AB	1	1674.816667	1674.816667	483.120	0.0021	2.0
RAB	2	6.933333	3.466667			
C	4	5442.066667	1360.516667	137.890	0.0001	2.4
RC	8	78.933333	9.866667			
AC	4	6014.600000	1503.650000	117.473	0.0001	3.8
RAC	8	102.400000	12.800000			
BC	4	5442.066667	1360.516667	101.028	0.0001	3.9
RBC	8	107.733333	13.466667			
ABC	4	5321.266667	1330.316667	243.351	0.0001	3.5
RABC	8	43.733333	5.466667			

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 WITHOUT ATRAZINE OR ROUNDUP

Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 Location: PONDER FARM Investigator: Eric P. Prostko

COMPLETE FACTORIAL AOV For Amapa Control % Jun-13-23 (Data Column 19)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	59	27296.850000				
R	2	2.100000	1.050000	0.425	0.6677	
A	1	2269.350000	2269.350000	1226.676	0.0008	1.0
RA	2	3.700000	1.850000			
B	1	1278.816667	1278.816667	296.251	0.0034	1.6
RB	2	8.633333	4.316667			
AB	1	1206.016667	1206.016667	1080.015	0.0009	1.1
RAB	2	2.233333	1.116667			
C	4	5609.766667	1402.441667	227.885	0.0001	1.9
RC	8	49.233333	6.154167			
AC	4	5846.566667	1461.641667	595.576	0.0001	1.7
RAC	8	19.633333	2.454167			
BC	4	5448.766667	1362.191667	905.612	0.0001	1.3
RBC	8	12.033333	1.504167			
ABC	4	5520.233333	1380.058333	558.540	0.0001	2.4
RABC	8	19.766667	2.470833			

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

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	59	63357.933333				
R	2	709.633333	354.816667	3.473	0.0821	
A	1	1233.066667	1233.066667	8.515	0.1001	9.1
RA	2	289.633333	144.816667			
B	1	5.400000	5.400000	0.590	0.5227	2.3
RB	2	18.300000	9.150000			
AB	1	290.400000	290.400000	31.738	0.0301	3.2
RAB	2	18.300000	9.150000			
C	4	52155.100000	13038.775000	65.493	0.0001	10.7
RC	8	1592.700000	199.087500			
AC	4	2924.766667	731.191667	8.227	0.0062	10.1
RAC	8	711.033333	88.879167			
BC	4	1052.433333	263.108333	1.859	0.2112	12.8
RBC	8	1132.366667	141.545833			
ABC	4	407.433333	101.858333	0.997	0.4623	15.3
RABC	8	817.366667	102.170833			

COMPLETE FACTORIAL AOV For Amapa Control % Aug-18-23 (Data Column 21)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	59	25595.733333				
R	2	109.033333	54.516667	6.275	0.0230	
A	1	1995.266667	1995.266667	228.902	0.0043	2.2
RA	2	17.433333	8.716667			
B	1	1520.066667	1520.066667	1249.370	0.0008	0.8
RB	2	2.433333	1.216667			
AB	1	1344.266667	1344.266667	248.172	0.0040	2.5
RAB	2	10.833333	5.416667			
C	4	5333.566667	1333.391667	198.890	0.0001	2.0
RC	8	53.633333	6.704167			
AC	4	5647.900000	1411.975000	157.104	0.0001	3.2
RAC	8	71.900000	8.987500			
BC	4	4586.433333	1146.608333	96.999	0.0001	3.7
RBC	8	94.566667	11.820833			
ABC	4	4738.900000	1184.725000	136.371	0.0001	4.5
RABC	8	69.500000	8.687500			

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 WITHOUT ATRAZINE OR ROUNDUP

Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 Location: PONDER FARM Investigator: Eric P. Prostko

COMPLETE FACTORIAL AOV For Agrass Control % Aug-18-23 (Data Column 22)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	59	28248.333333				
R	2	403.333333	201.666667	0.914	0.4392	
A	1	8166.666667	8166.666667	100.000	0.0099	6.8
RA	2	163.333333	81.666667			
B	1	1041.666667	1041.666667	2.076	0.2863	16.9
RB	2	1003.333333	501.666667			
AB	1	666.666667	666.666667	5.063	0.1533	12.2
RAB	2	263.333333	131.666667			
C	4	4252.500000	1063.125000	7.785	0.0073	8.9
RC	8	1092.500000	136.562500			
AC	4	3704.166667	926.041667	10.724	0.0027	10.0
RAC	8	690.833333	86.354167			
BC	4	862.500000	215.625000	1.361	0.3285	13.5
RBC	8	1267.500000	158.437500			
ABC	4	2904.166667	726.041667	3.289	0.0713	22.6
RABC	8	1765.833333	220.729167			

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

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	59	14965.000000				
R	2	52.500000	26.250000	0.653	0.5462	
A	1	3681.666667	3681.666667	40.719	0.0237	7.2
RA	2	180.833333	90.416667			
B	1	1041.666667	1041.666667	10.121	0.0862	7.6
RB	2	205.833333	102.916667			
AB	1	81.666667	81.666667	4.000	0.1835	4.8
RAB	2	40.833333	20.416667			
C	4	1631.666667	407.916667	2.429	0.1328	9.8
RC	8	1343.333333	167.916667			
AC	4	2035.000000	508.750000	7.537	0.0080	8.8
RAC	8	540.000000	67.500000			
BC	4	458.333333	114.583333	0.889	0.5126	12.2
RBC	8	1031.666667	128.958333			
ABC	4	2318.333333	579.583333	14.415	0.0010	9.6
RABC	8	321.666667	40.208333			

COMPLETE FACTORIAL AOV For ----- ZEAMA YIELD LBS/PLOT Sep-5-23 (Data Column 24) Missing values in column 24 results in unbalanced data, Least Squares Analysis is preferred

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	58	917.712500				
R	2	97.825000	48.912500	10.600	0.0076	
A	1	1.204167	1.204167	0.426	0.5811	1.3
RA	2	5.658333	2.829167			
B	1	9.204167	9.204167	1.552	0.3389	1.8
RB	2	11.858333	5.929167			
AB	1	12.604167	12.604167	1.089	0.4063	3.6
RAB	2	23.158333	11.579167			
C	4	210.983333	52.745833	6.163	0.0145	2.2
RC	8	68.466667	8.558333			
AC	4	31.983333	7.995833	0.483	0.7485	4.4
RAC	8	132.466667	16.558333			
BC	4	123.650000	30.912500	3.430	0.0649	3.2
RBC	8	72.100000	9.012500			
ABC	4	84.250000	21.062500	4.565	0.0396	3.3
RABC	7	32.300000	4.614286			

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 WITHOUT ATRAZINE OR ROUNDUP

Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 Location: PONDER FARM Investigator: Eric P. Prostko

COMPLETE FACTORIAL AOV For ----- ZEAMA YIELD BU/A Sep-5-23 (Data Column 25) Missing values in column 25 results in unbalanced data, Least Squares Analysis is preferred

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	58	24708.001778				
R	2	2633.788113	1316.894057	10.600	0.0076	
A	1	32.420341	32.420341	0.426	0.5811	7
RA	2	152.341948	76.170974			
B	1	247.808073	247.808073	1.552	0.3389	10
RB	2	319.267441	159.633720			
AB	1	339.347859	339.347859	1.089	0.4063	19
RAB	2	623.502612	311.751306			
C	4	5680.402713	1420.100678	6.163	0.0145	12
RC	8	1843.360008	230.420001			
AC	4	861.102205	215.275551	0.483	0.7485	23
RAC	8	3566.461866	445.807733			
BC	4	3329.086636	832.271659	3.430	0.0649	17
RBC	8	1941.181937	242.647742			
ABC	4	2268.302055	567.075514	4.565	0.0396	17
RABC	7	869.627969	124.232567			

Rating Unit
 % = PERCENT
ARM Action Codes
 TY1 = 5.18878276*[24]

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 WITHOUT ATRAZINE OR ROUNDUP

Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code						----	RAPRA	AGRASS		Rapra	Amapa	Agrass	Zeama	Zeama			
Crop Code						ZEAMA	----	----	Zeama	Control	Control	Control	Stunting	Chlorosis			
Rating Data Type						Stunting	Control	Control	Stunting	Control	Control	Control	Stunting	Chlorosis			
Rating Unit						%	%	%	%	%	%	%	%	%			
Rating Date						Apr-4-23	Apr-4-23	Apr-4-23	Apr-12-23	Apr-12-23	Apr-12-23	Apr-12-23	Apr-20-23	Apr-20-23			
Trt	Treatment	Form	Form	Rate	Grow	Appl											
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	1	2	3	4	5	6	7	8	9
1	NO PRE							101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	NO LIBERTY							205	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	NO HPPD							302	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
2	NO PRE							102	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	NO LIBERTY							215	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0
	CALLISTO	4 SC		3.0 oz/a		POST B		318	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0
	PROWL H2O	3.8 SC		32.0 oz/a		POST B											
	INDUCE			0.25 % v/v		POST B											
								Mean =	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3
3	NO PRE							103	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	NO LIBERTY							216	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		317	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0
	PROWL H2O	3.8 SC		32.0 oz/a		POST B											
	INDUCE			0.25 % v/v		POST B											
								Mean =	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	6.7
4	NO PRE							104	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0
	NO LIBERTY							206	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	IMPACT	2.8 SC		1.25 oz/a		POST B		310	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PROWL H2O	3.8 SC		32.0 oz/a		POST B											
	INDUCE			0.25 % v/v		POST B											
								Mean =	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3
5	NO PRE							105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0
	NO LIBERTY							217	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0
	SHIELDDEX	3.33 SC		1.35 oz/a		POST B		315	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0
	PROWL H2O	3.8 SC		32.0 oz/a		POST B											
	INDUCE			0.25 % v/v		POST B											
								Mean =	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	6.7
6	NO PRE							106	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	LIBERTY	2.34 SL		32.0 oz/a		POST B		218	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	NO HPPD							304	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
7	NO PRE							107	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0
	LIBERTY	2.34 SL		32.0 oz/a		POST B		219	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0
	CALLISTO	4 SC		3.0 oz/a		POST B		314	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	PROWL H2O	3.8 SC		32.0 oz/a		POST B											
	INDUCE			0.25 % v/v		POST B											
								Mean =	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	3.3
8	NO PRE							108	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0
	LIBERTY	2.34 SL		32.0 oz/a		POST B		213	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0
	LAUDIS	3.5 SC		3.0 oz/a		POST B		303	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0
	PROWL H2O	3.8 SC		32.0 oz/a		POST B											
	INDUCE			0.25 % v/v		POST B											
								Mean =	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	10.0
9	NO PRE							109	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0
	LIBERTY	2.34 SL		32.0 oz/a		POST B		210	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	IMPACT	2.8 SC		1.25 oz/a		POST B		308	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0
	PROWL H2O	3.8 SC		32.0 oz/a		POST B											
	INDUCE			0.25 % v/v		POST B											
								Mean =	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	6.7
10	NO PRE							110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0
	LIBERTY	2.34 SL		32.0 oz/a		POST B		202	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	10.0
	SHIELDDEX	3.33 SC		1.35 oz/a		POST B		305	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0
	PROWL H2O	3.8 SC		32.0 oz/a		POST B											
	INDUCE			0.25 % v/v		POST B											
								Mean =	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	10.0

University of Georgia

WEED CONTROL IN FIELD CORN WITHOUT ATRAZINE OR ROUNDUP
 Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 Location: PONDER FARM Investigator: Eric P. Prostko

							----- ZEAMA Stunting % Apr-4-23	RAPRA ----- Control % Apr-4-23	AGRASS ----- Control % Apr-4-23	Zeama Stunting % Apr-12-23	Rapra Control % Apr-12-23	Amapa Control % Apr-12-23	Agrass Control % Apr-12-23	Zeama Stunting % Apr-20-23	Zeama Chlorosis % Apr-20-23
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code Plot	1	2	3	4	5	6	7	8	9
11	DUAL II MAGNUM	7.64 EC		16.0 oz/a	PRE A	111	0.0	30.0	99.0	0.0	0.0	99.0	99.0	0.0	0.0
	NO LIBERTY					220	0.0	20.0	99.0	0.0	0.0	99.0	99.0	10.0	0.0
	NO HPPD					301	0.0	20.0	99.0	0.0	0.0	99.0	99.0	0.0	0.0
						Mean =	0.0	23.3	99.0	0.0	0.0	99.0	99.0	3.3	0.0
12	DUAL II MAGNUM	7.64 EC		16.0 oz/a	PRE A	112	0.0	50.0	99.0	0.0	50.0	99.0	99.0	0.0	10.0
	NO LIBERTY					209	0.0	20.0	99.0	0.0	0.0	99.0	99.0	0.0	0.0
	CALLISTO	4 SC		3.0 oz/a	POST B	307	0.0	25.0	99.0	0.0	0.0	99.0	99.0	0.0	0.0
	PROWL H2O	3.8 SC		32.0 oz/a	POST B										
	INDUCE			0.25 % v/v	POST B										
						Mean =	0.0	31.7	99.0	0.0	16.7	99.0	99.0	0.0	3.3
13	DUAL II MAGNUM	7.64 EC		16.0 oz/a	PRE A	113	0.0	10.0	99.0	0.0	0.0	99.0	99.0	0.0	10.0
	NO LIBERTY					203	0.0	10.0	99.0	0.0	0.0	99.0	99.0	0.0	10.0
	LAUDIS	3.5 SC		3.0 oz/a	POST B	311	0.0	30.0	99.0	0.0	0.0	99.0	99.0	15.0	10.0
	PROWL H2O	3.8 SC		32.0 oz/a	POST B										
	INDUCE			0.25 % v/v	POST B										
						Mean =	0.0	16.7	99.0	0.0	0.0	99.0	99.0	5.0	10.0
14	DUAL II MAGNUM	7.64 EC		16.0 oz/a	PRE A	114	0.0	10.0	99.0	0.0	0.0	99.0	95.0	0.0	0.0
	NO LIBERTY					208	0.0	20.0	99.0	0.0	0.0	99.0	99.0	0.0	0.0
	IMPACT	2.8 SC		1.25 oz/a	POST B	313	0.0	10.0	85.0	0.0	0.0	99.0	90.0	0.0	0.0
	PROWL H2O	3.8 SC		32.0 oz/a	POST B										
	INDUCE			0.25 % v/v	POST B										
						Mean =	0.0	13.3	94.3	0.0	0.0	99.0	94.7	0.0	0.0
15	DUAL II MAGNUM	7.64 EC		16.0 oz/a	PRE A	115	0.0	10.0	99.0	0.0	0.0	99.0	99.0	0.0	10.0
	NO LIBERTY					207	0.0	10.0	99.0	0.0	0.0	99.0	99.0	5.0	0.0
	SHIELDDEX	3.33 SC		1.35 oz/a	POST B	312	0.0	30.0	99.0	0.0	0.0	99.0	99.0	10.0	0.0
	PROWL H2O	3.8 SC		32.0 oz/a	POST B										
	INDUCE			0.25 % v/v	POST B										
						Mean =	0.0	16.7	99.0	0.0	0.0	99.0	99.0	5.0	3.3
16	DUAL II MAGNUM	7.64 EC		16.0 oz/a	PRE A	116	0.0	30.0	99.0	0.0	0.0	99.0	99.0	0.0	0.0
	LIBERTY	2.34 SL		32.0 oz/a	POST B	211	0.0	10.0	99.0	0.0	0.0	99.0	99.0	0.0	0.0
	NO HPPD					320	0.0	30.0	99.0	0.0	30.0	99.0	99.0	0.0	0.0
						Mean =	0.0	23.3	99.0	0.0	10.0	99.0	99.0	0.0	0.0
17	DUAL II MAGNUM	7.64 EC		16.0 oz/a	PRE A	117	0.0	10.0	99.0	0.0	0.0	99.0	99.0	10.0	10.0
	LIBERTY	2.34 SL		32.0 oz/a	POST B	214	0.0	20.0	99.0	0.0	0.0	99.0	99.0	15.0	10.0
	CALLISTO	4 SC		3.0 oz/a	POST B	309	0.0	10.0	99.0	0.0	0.0	99.0	99.0	5.0	10.0
	PROWL H2O	3.8 SC		32.0 oz/a	POST B										
	INDUCE			0.25 % v/v	POST B										
						Mean =	0.0	13.3	99.0	0.0	0.0	99.0	99.0	10.0	10.0
18	DUAL II MAGNUM	7.64 EC		16.0 oz/a	PRE A	118	0.0	10.0	99.0	0.0	0.0	99.0	95.0	0.0	0.0
	LIBERTY	2.34 SL		32.0 oz/a	POST B	204	0.0	20.0	99.0	0.0	0.0	99.0	99.0	0.0	0.0
	LAUDIS	3.5 SC		3.0 oz/a	POST B	306	0.0	20.0	99.0	0.0	0.0	99.0	99.0	15.0	10.0
	PROWL H2O	3.8 SC		32.0 oz/a	POST B										
	INDUCE			0.25 % v/v	POST B										
						Mean =	0.0	16.7	99.0	0.0	0.0	99.0	97.7	5.0	3.3
19	DUAL II MAGNUM	7.64 EC		16.0 oz/a	PRE A	119	0.0	10.0	99.0	0.0	0.0	99.0	99.0	0.0	0.0
	LIBERTY	2.34 SL		32.0 oz/a	POST B	212	0.0	20.0	99.0	0.0	0.0	99.0	99.0	0.0	10.0
	IMPACT	2.8 SC		1.25 oz/a	POST B	319	0.0	30.0	99.0	0.0	0.0	99.0	99.0	0.0	0.0
	PROWL H2O	3.8 SC		32.0 oz/a	POST B										
	INDUCE			0.25 % v/v	POST B										
						Mean =	0.0	20.0	99.0	0.0	0.0	99.0	99.0	0.0	3.3
20	DUAL II MAGNUM	7.64 EC		16.0 oz/a	PRE A	120	0.0	30.0	99.0	0.0	0.0	99.0	99.0	5.0	0.0
	LIBERTY	2.34 SL		32.0 oz/a	POST B	201	0.0	10.0	99.0	0.0	0.0	99.0	99.0	0.0	0.0
	SHIELDDEX	3.33 SC		1.35 oz/a	POST B	316	0.0	30.0	99.0	0.0	30.0	99.0	95.0	10.0	0.0
	PROWL H2O	3.8 SC		32.0 oz/a	POST B										
	INDUCE			0.25 % v/v	POST B										
						Mean =	0.0	23.3	99.0	0.0	10.0	99.0	97.7	5.0	0.0

University of Georgia

WEED CONTROL IN FIELD CORN WITHOUT ATRAZINE OR ROUNDUP

Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code						Zeama	Rapra	Amapa	Agrass	Zeama	Zeama	Amapa	Rapra	Agrass	
Crop Code						Bleaching	Control	Control	Control	Stunting	Bleaching	Control	Control	Control	
Rating Data Type						%	%	%	%	%	%	%	%	%	
Rating Unit						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	
Rating Date															
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code Plot	10	11	12	13	14	15	16	17	18
1	NO PRE					101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	NO LIBERTY					205	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	NO HPPD					302	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
2	NO PRE					102	0.0	30.0	99.0	85.0	0.0	5.0	99.0	85.0	75.0
	NO LIBERTY					215	0.0	30.0	99.0	90.0	0.0	0.0	99.0	90.0	95.0
	CALLISTO	4 SC		3.0 oz/a	POST B	318	0.0	50.0	99.0	85.0	10.0	0.0	95.0	95.0	95.0
	PROWL H2O	3.8 SC		32.0 oz/a	POST B										
	INDUCE			0.25 % v/v	POST B										
Mean =						0.0	36.7	99.0	86.7	3.3	1.7	97.7	90.0	88.3	
3	NO PRE					103	0.0	20.0	90.0	90.0	5.0	5.0	99.0	50.0	99.0
	NO LIBERTY					216	0.0	20.0	99.0	50.0	5.0	5.0	99.0	50.0	99.0
	LAUDIS	3.5 SC		3.0 oz/a	POST B	317	0.0	30.0	99.0	85.0	10.0	0.0	99.0	65.0	99.0
	PROWL H2O	3.8 SC		32.0 oz/a	POST B										
	INDUCE			0.25 % v/v	POST B										
Mean =						0.0	23.3	96.0	75.0	6.7	3.3	99.0	55.0	99.0	
4	NO PRE					104	0.0	20.0	95.0	95.0	10.0	5.0	99.0	40.0	99.0
	NO LIBERTY					206	0.0	20.0	99.0	85.0	0.0	0.0	99.0	60.0	95.0
	IMPACT	2.8 SC		1.25 oz/a	POST B	310	0.0	25.0	99.0	90.0	0.0	0.0	99.0	60.0	99.0
	PROWL H2O	3.8 SC		32.0 oz/a	POST B										
	INDUCE			0.25 % v/v	POST B										
Mean =						0.0	21.7	97.7	90.0	3.3	1.7	99.0	53.3	97.7	
5	NO PRE					105	0.0	20.0	95.0	65.0	0.0	0.0	99.0	40.0	99.0
	NO LIBERTY					217	0.0	30.0	99.0	40.0	0.0	0.0	99.0	40.0	99.0
	SHIELDDEX	3.33 SC		1.35 oz/a	POST B	315	0.0	30.0	99.0	50.0	10.0	5.0	99.0	65.0	95.0
	PROWL H2O	3.8 SC		32.0 oz/a	POST B										
	INDUCE			0.25 % v/v	POST B										
Mean =						0.0	26.7	97.7	51.7	3.3	1.7	99.0	48.3	97.7	
6	NO PRE					106	0.0	20.0	99.0	99.0	0.0	0.0	99.0	30.0	95.0
	LIBERTY	2.34 SL		32.0 oz/a	POST B	218	0.0	20.0	99.0	95.0	0.0	0.0	99.0	20.0	95.0
	NO HPPD					304	0.0	15.0	99.0	65.0	0.0	0.0	99.0	40.0	99.0
	Mean =						0.0	18.3	99.0	86.3	0.0	0.0	99.0	30.0	96.3
7	NO PRE					107	0.0	20.0	99.0	95.0	5.0	0.0	99.0	90.0	95.0
	LIBERTY	2.34 SL		32.0 oz/a	POST B	219	0.0	30.0	99.0	99.0	0.0	0.0	95.0	90.0	99.0
	CALLISTO	4 SC		3.0 oz/a	POST B	314	0.0	40.0	99.0	75.0	0.0	0.0	99.0	90.0	95.0
	PROWL H2O	3.8 SC		32.0 oz/a	POST B										
	INDUCE			0.25 % v/v	POST B										
Mean =						0.0	30.0	99.0	89.7	1.7	0.0	97.7	90.0	96.3	
8	NO PRE					108	0.0	20.0	99.0	99.0	0.0	5.0	99.0	60.0	99.0
	LIBERTY	2.34 SL		32.0 oz/a	POST B	213	0.0	30.0	99.0	99.0	0.0	0.0	99.0	65.0	99.0
	LAUDIS	3.5 SC		3.0 oz/a	POST B	303	0.0	20.0	99.0	99.0	0.0	0.0	99.0	65.0	95.0
	PROWL H2O	3.8 SC		32.0 oz/a	POST B										
	INDUCE			0.25 % v/v	POST B										
Mean =						0.0	23.3	99.0	99.0	0.0	1.7	99.0	63.3	97.7	
9	NO PRE					109	0.0	20.0	99.0	99.0	0.0	0.0	99.0	50.0	95.0
	LIBERTY	2.34 SL		32.0 oz/a	POST B	210	0.0	15.0	99.0	99.0	0.0	5.0	99.0	50.0	99.0
	IMPACT	2.8 SC		1.25 oz/a	POST B	308	0.0	35.0	99.0	75.0	10.0	5.0	99.0	60.0	99.0
	PROWL H2O	3.8 SC		32.0 oz/a	POST B										
	INDUCE			0.25 % v/v	POST B										
Mean =						0.0	23.3	99.0	91.0	3.3	3.3	99.0	53.3	97.7	
10	NO PRE					110	0.0	30.0	99.0	99.0	0.0	0.0	99.0	50.0	99.0
	LIBERTY	2.34 SL		32.0 oz/a	POST B	202	0.0	25.0	99.0	85.0	10.0	5.0	99.0	40.0	99.0
	SHIELDDEX	3.33 SC		1.35 oz/a	POST B	305	0.0	30.0	99.0	90.0	0.0	0.0	99.0	75.0	99.0
	PROWL H2O	3.8 SC		32.0 oz/a	POST B										
	INDUCE			0.25 % v/v	POST B										
Mean =						0.0	28.3	99.0	91.3	3.3	1.7	99.0	55.0	99.0	

University of Georgia

WEED CONTROL IN FIELD CORN WITHOUT ATRAZINE OR ROUNDUP

Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code							Zeama	Rapra	Amapa	Agrass	Zeama	Zeama	Amapa	Rapra	Agrass	
Crop Code							Bleaching	Control	Control	Control	Stunting	Bleaching	Control	Control	Control	
Rating Data Type							%	%	%	%	%	%	%	%	%	%
Rating Unit							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	May-2-23
Rating Date																
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Stg	Appl Code Plot	10	11	12	13	14	15	16	17	18	
11	DUAL II MAGNUM	7.64	EC	16.0	oz/a	PRE A 111	0.0	0.0	99.0	99.0	0.0	0.0	99.0	10.0	99.0	
	NO LIBERTY					220	0.0	0.0	99.0	99.0	0.0	0.0	99.0	10.0	99.0	
	NO HPPD					301	0.0	0.0	99.0	99.0	0.0	0.0	99.0	15.0	99.0	
						Mean =	0.0	0.0	99.0	99.0	0.0	0.0	99.0	11.7	99.0	
12	DUAL II MAGNUM	7.64	EC	16.0	oz/a	PRE A 112	0.0	40.0	99.0	99.0	0.0	5.0	99.0	90.0	95.0	
	NO LIBERTY					209	0.0	35.0	99.0	99.0	0.0	0.0	99.0	90.0	99.0	
	CALLISTO	4	SC	3.0	oz/a	POST B 307	0.0	40.0	99.0	99.0	0.0	0.0	99.0	95.0	99.0	
	PROWL H2O	3.8	SC	32.0	oz/a	POST B										
	INDUCE			0.25	% v/v	POST B										
						Mean =	0.0	38.3	99.0	99.0	0.0	1.7	99.0	91.7	97.7	
13	DUAL II MAGNUM	7.64	EC	16.0	oz/a	PRE A 113	0.0	20.0	99.0	99.0	0.0	0.0	99.0	65.0	99.0	
	NO LIBERTY					203	0.0	20.0	99.0	99.0	0.0	0.0	99.0	50.0	99.0	
	LAUDIS	3.5	SC	3.0	oz/a	POST B 311	0.0	25.0	99.0	99.0	10.0	5.0	99.0	65.0	99.0	
	PROWL H2O	3.8	SC	32.0	oz/a	POST B										
	INDUCE			0.25	% v/v	POST B										
						Mean =	0.0	21.7	99.0	99.0	3.3	1.7	99.0	60.0	99.0	
14	DUAL II MAGNUM	7.64	EC	16.0	oz/a	PRE A 114	0.0	20.0	99.0	99.0	0.0	0.0	99.0	80.0	99.0	
	NO LIBERTY					208	0.0	25.0	99.0	95.0	0.0	0.0	99.0	75.0	99.0	
	IMPACT	2.8	SC	1.25	oz/a	POST B 313	0.0	30.0	99.0	99.0	0.0	0.0	99.0	80.0	95.0	
	PROWL H2O	3.8	SC	32.0	oz/a	POST B										
	INDUCE			0.25	% v/v	POST B										
						Mean =	0.0	25.0	99.0	97.7	0.0	0.0	99.0	78.3	97.7	
15	DUAL II MAGNUM	7.64	EC	16.0	oz/a	PRE A 115	0.0	25.0	99.0	99.0	0.0	5.0	99.0	65.0	95.0	
	NO LIBERTY					207	0.0	20.0	99.0	99.0	0.0	0.0	99.0	55.0	99.0	
	SHIELDDEX	3.33	SC	1.35	oz/a	POST B 312	0.0	30.0	99.0	99.0	15.0	5.0	99.0	75.0	99.0	
	PROWL H2O	3.8	SC	32.0	oz/a	POST B										
	INDUCE			0.25	% v/v	POST B										
						Mean =	0.0	25.0	99.0	99.0	5.0	3.3	99.0	65.0	97.7	
16	DUAL II MAGNUM	7.64	EC	16.0	oz/a	PRE A 116	0.0	0.0	99.0	99.0	0.0	0.0	99.0	30.0	99.0	
	LIBERTY	2.34	SL	32.0	oz/a	POST B 211	0.0	0.0	99.0	99.0	0.0	0.0	99.0	20.0	99.0	
	NO HPPD					320	0.0	10.0	99.0	99.0	0.0	0.0	99.0	45.0	99.0	
						Mean =	0.0	3.3	99.0	99.0	0.0	0.0	99.0	31.7	99.0	
17	DUAL II MAGNUM	7.64	EC	16.0	oz/a	PRE A 117	0.0	30.0	99.0	99.0	0.0	0.0	99.0	85.0	99.0	
	LIBERTY	2.34	SL	32.0	oz/a	POST B 214	0.0	30.0	99.0	99.0	10.0	5.0	99.0	85.0	99.0	
	CALLISTO	4	SC	3.0	oz/a	POST B 309	0.0	30.0	99.0	99.0	0.0	5.0	99.0	70.0	99.0	
	PROWL H2O	3.8	SC	32.0	oz/a	POST B										
	INDUCE			0.25	% v/v	POST B										
						Mean =	0.0	30.0	99.0	99.0	3.3	3.3	99.0	80.0	99.0	
18	DUAL II MAGNUM	7.64	EC	16.0	oz/a	PRE A 118	0.0	20.0	99.0	99.0	0.0	0.0	99.0	60.0	95.0	
	LIBERTY	2.34	SL	32.0	oz/a	POST B 204	0.0	20.0	99.0	99.0	0.0	0.0	99.0	55.0	99.0	
	LAUDIS	3.5	SC	3.0	oz/a	POST B 306	0.0	30.0	99.0	99.0	10.0	5.0	99.0	55.0	99.0	
	PROWL H2O	3.8	SC	32.0	oz/a	POST B										
	INDUCE			0.25	% v/v	POST B										
						Mean =	0.0	23.3	99.0	99.0	3.3	1.7	99.0	56.7	97.7	
19	DUAL II MAGNUM	7.64	EC	16.0	oz/a	PRE A 119	0.0	20.0	99.0	99.0	0.0	0.0	99.0	60.0	95.0	
	LIBERTY	2.34	SL	32.0	oz/a	POST B 212	0.0	20.0	99.0	99.0	0.0	0.0	99.0	55.0	99.0	
	IMPACT	2.8	SC	1.25	oz/a	POST B 319	0.0	20.0	99.0	99.0	0.0	0.0	99.0	65.0	95.0	
	PROWL H2O	3.8	SC	32.0	oz/a	POST B										
	INDUCE			0.25	% v/v	POST B										
						Mean =	0.0	20.0	99.0	99.0	0.0	0.0	99.0	60.0	96.3	
20	DUAL II MAGNUM	7.64	EC	16.0	oz/a	PRE A 120	0.0	25.0	99.0	99.0	0.0	0.0	99.0	65.0	95.0	
	LIBERTY	2.34	SL	32.0	oz/a	POST B 201	0.0	20.0	99.0	99.0	0.0	0.0	99.0	60.0	99.0	
	SHIELDDEX	3.33	SC	1.35	oz/a	POST B 316	0.0	30.0	99.0	99.0	10.0	5.0	99.0	85.0	99.0	
	PROWL H2O	3.8	SC	32.0	oz/a	POST B										
	INDUCE			0.25	% v/v	POST B										
						Mean =	0.0	25.0	99.0	99.0	3.3	1.7	99.0	70.0	97.7	

University of Georgia

WEED CONTROL IN FIELD CORN WITHOUT ATRAZINE OR ROUNDUP

Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code						Amapa	Rapra	Amapa	Agrass	TOTAL WEED	-----	-----	
Crop Code						Control	Control	Control	Control	Cover	ZEAMA	ZEAMA	
Rating Data Type						%	%	%	%	%	YIELD	YIELD	
Rating Unit						Jun-13-23	Jun-13-23	Aug-18-23	Aug-18-23	Aug-18-23	LBS/PLOT	BU/A	
Rating Date											Sep-5-23	Sep-5-23	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code Plot	19	20	21	22	23	24	25
1	NO PRE					101	0.0	0.0	0.0	0.0	90.0	35.0	182
	NO LIBERTY					205	0.0	0.0	0.0	0.0	95.0	39.0	202
	NO HPPD					302	0.0	0.0	0.0	0.0	100.0	43.0	223
	Mean =						0.0	0.0	0.0	0.0	95.0	39.0	202
2	NO PRE					102	98.0	98.0	92.0	50.0	60.0	57.0	296
	NO LIBERTY					215	95.0	95.0	85.0	30.0	65.0	48.0	249
	CALLISTO	4 SC		3.0 oz/a	POST B	318	95.0	95.0	90.0	65.0	40.0	48.0	249
	PROWL H2O	3.8 SC		32.0 oz/a	POST B								
INDUCE			0.25 % v/v	POST B									
Mean =						96.0	96.0	89.0	48.3	55.0	51.0	265	
3	NO PRE					103	95.0	50.0	95.0	80.0	50.0	52.0	270
	NO LIBERTY					216	95.0	30.0	85.0	65.0	40.0	47.0	244
	LAUDIS	3.5 SC		3.0 oz/a	POST B	317	95.0	65.0	85.0	60.0	60.0	50.0	259
	PROWL H2O	3.8 SC		32.0 oz/a	POST B								
INDUCE			0.25 % v/v	POST B									
Mean =						95.0	48.3	88.3	68.3	50.0	49.7	258	
4	NO PRE					104	95.0	50.0	95.0	75.0	40.0	51.0	265
	NO LIBERTY					206	95.0	85.0	95.0	65.0	40.0	53.0	275
	IMPACT	2.8 SC		1.25 oz/a	POST B	310	99.0	65.0	90.0	50.0	60.0	51.0	265
	PROWL H2O	3.8 SC		32.0 oz/a	POST B								
INDUCE			0.25 % v/v	POST B									
Mean =						96.3	66.7	93.3	63.3	46.7	51.7	268	
5	NO PRE					105	98.0	50.0	95.0	50.0	50.0	52.0	270
	NO LIBERTY					217	99.0	20.0	99.0	20.0	75.0	49.0	254
	SHIELDDEX	3.33 SC		1.35 oz/a	POST B	315	99.0	65.0	92.0	30.0	60.0	49.0	254
	PROWL H2O	3.8 SC		32.0 oz/a	POST B								
INDUCE			0.25 % v/v	POST B									
Mean =						98.7	45.0	95.3	33.3	61.7	50.0	259	
6	NO PRE					106	95.0	20.0	95.0	65.0	40.0	45.0	233
	LIBERTY	2.34 SL		32.0 oz/a	POST B	218	99.0	0.0	95.0	50.0	50.0	50.0	259
	NO HPPD					304	90.0	20.0	80.0	30.0	65.0	50.0	259
	Mean =						94.7	13.3	90.0	48.3	51.7	48.3	251
7	NO PRE					107	99.0	95.0	95.0	85.0	35.0	53.0	275
	LIBERTY	2.34 SL		32.0 oz/a	POST B	219	95.0	95.0	85.0	75.0	50.0	51.0	265
	CALLISTO	4 SC		3.0 oz/a	POST B	314	95.0	95.0	90.0	60.0	50.0	44.0	228
	PROWL H2O	3.8 SC		32.0 oz/a	POST B								
INDUCE			0.25 % v/v	POST B									
Mean =						96.3	95.0	90.0	73.3	45.0	49.3	256	
8	NO PRE					108	90.0	60.0	92.0	65.0	50.0	53.0	275
	LIBERTY	2.34 SL		32.0 oz/a	POST B	213	95.0	80.0	95.0	65.0	45.0	50.0	259
	LAUDIS	3.5 SC		3.0 oz/a	POST B	303	95.0	65.0	90.0	85.0	55.0	47.0	244
	PROWL H2O	3.8 SC		32.0 oz/a	POST B								
INDUCE			0.25 % v/v	POST B									
Mean =						93.3	68.3	92.3	71.7	50.0	50.0	259	
9	NO PRE					109	95.0	50.0	95.0	30.0	65.0	54.0	280
	LIBERTY	2.34 SL		32.0 oz/a	POST B	210	95.0	40.0	95.0	60.0	50.0	50.0	259
	IMPACT	2.8 SC		1.25 oz/a	POST B	308	95.0	65.0	95.0	55.0	45.0	43.0	223
	PROWL H2O	3.8 SC		32.0 oz/a	POST B								
INDUCE			0.25 % v/v	POST B									
Mean =						95.0	51.7	95.0	48.3	53.3	49.0	254	
10	NO PRE					110	95.0	55.0	99.0	50.0	60.0	53.0	275
	LIBERTY	2.34 SL		32.0 oz/a	POST B	202	99.0	20.0	95.0	30.0	65.0	40.0	208
	SHIELDDEX	3.33 SC		1.35 oz/a	POST B	305	99.0	65.0	95.0	60.0	40.0	43.0	223
	PROWL H2O	3.8 SC		32.0 oz/a	POST B								
INDUCE			0.25 % v/v	POST B									
Mean =						97.7	46.7	96.3	46.7	55.0	45.3	235	

University of Georgia

WEED CONTROL IN FIELD CORN WITHOUT ATRAZINE OR ROUNDUP

Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
 Location: PONDER FARM Investigator: Eric P. Prostko

							Amapa	Rapra	Amapa	Agrass	TOTAL WEED	-----	-----
							Control	Control	Control	Control	Cover	ZEAMA	ZEAMA
							%	%	%	%	%	YIELD	YIELD
							Jun-13-23	Jun-13-23	Aug-18-23	Aug-18-23	Aug-18-23	LBS/PLOT	BU/A
							19	20	21	22	23	24	25
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code Plot							
11	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A 111	99.0	0.0	95.0	85.0	35.0	50.0	259
	NO LIBERTY					220	99.0	0.0	95.0	75.0	35.0	45.0	233
	NO HPPD					301	99.0	0.0	95.0	70.0	40.0	43.0	223
						Mean =	99.0	0.0	95.0	76.7	36.7	46.0	239
12	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A 112	99.0	95.0	95.0	90.0	50.0	53.0	275
	NO LIBERTY					209	95.0	95.0	95.0	75.0	55.0	53.0	275
	CALLISTO	4	SC	3.0 oz/a	POST	B 307	95.0	95.0	95.0	65.0	55.0	47.0	244
	PROWL H2O	3.8	SC	32.0 oz/a	POST	B							
	INDUCE			0.25 % v/v	POST	B							
						Mean =	96.3	95.0	95.0	76.7	53.3	51.0	265
13	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A 113	99.0	65.0	95.0	90.0	45.0	53.0	275
	NO LIBERTY					203	99.0	65.0	95.0	70.0	40.0	47.0	244
	LAUDIS	3.5	SC	3.0 oz/a	POST	B 311	99.0	80.0	90.0	60.0	45.0	51.0	265
	PROWL H2O	3.8	SC	32.0 oz/a	POST	B							
	INDUCE			0.25 % v/v	POST	B							
						Mean =	99.0	70.0	93.3	73.3	43.3	50.3	261
14	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A 114	99.0	90.0	99.0	65.0	50.0	50.0	259
	NO LIBERTY					208	99.0	90.0	92.0	75.0	30.0	51.0	265
	IMPACT	2.8	SC	1.25 oz/a	POST	B 313	99.0	85.0	92.0	60.0	50.0	53.0	275
	PROWL H2O	3.8	SC	32.0 oz/a	POST	B							
	INDUCE			0.25 % v/v	POST	B							
						Mean =	99.0	88.3	94.3	66.7	43.3	51.3	266
15	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A 115	99.0	65.0	95.0	85.0	30.0	49.0	254
	NO LIBERTY					207	99.0	70.0	95.0	65.0	45.0	49.0	254
	SHIELDDEX	3.33	SC	1.35 oz/a	POST	B 312	99.0	75.0	90.0	60.0	50.0	48.0	249
	PROWL H2O	3.8	SC	32.0 oz/a	POST	B							
	INDUCE			0.25 % v/v	POST	B							
						Mean =	99.0	70.0	93.3	70.0	41.7	48.7	253
16	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A 116	99.0	0.0	95.0	75.0	40.0	47.0	244
	LIBERTY	2.34	SL	32.0 oz/a	POST	B 211	99.0	0.0	95.0	65.0	45.0	46.0	239
	NO HPPD					320	99.0	0.0	95.0	65.0	40.0	46.0	239
						Mean =	99.0	0.0	95.0	68.3	41.7	46.3	240
17	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A 117	99.0	95.0	95.0	65.0	50.0	49.0	254
	LIBERTY	2.34	SL	32.0 oz/a	POST	B 214	99.0	85.0	95.0	60.0	45.0	48.0	249
	CALLISTO	4	SC	3.0 oz/a	POST	B 309	95.0	70.0	95.0	90.0	60.0	50.0	259
	PROWL H2O	3.8	SC	32.0 oz/a	POST	B							
	INDUCE			0.25 % v/v	POST	B							
						Mean =	97.7	83.3	95.0	71.7	51.7	49.0	254
18	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A 118	99.0	65.0	95.0	65.0	45.0	49.0	254
	LIBERTY	2.34	SL	32.0 oz/a	POST	B 204	99.0	65.0	95.0	80.0	15.0	47.0	244
	LAUDIS	3.5	SC	3.0 oz/a	POST	B 306	99.0	65.0	95.0	85.0	25.0	44.0	228
	PROWL H2O	3.8	SC	32.0 oz/a	POST	B							
	INDUCE			0.25 % v/v	POST	B							
						Mean =	99.0	65.0	95.0	76.7	28.3	46.7	242
19	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A 119	99.0	65.0	95.0	65.0	40.0	50.0	259
	LIBERTY	2.34	SL	32.0 oz/a	POST	B 212	99.0	75.0	95.0	80.0	20.0	45.0	233
	IMPACT	2.8	SC	1.25 oz/a	POST	B 319	99.0	85.0	92.0	85.0	20.0	47.0	244
	PROWL H2O	3.8	SC	32.0 oz/a	POST	B							
	INDUCE			0.25 % v/v	POST	B							
						Mean =	99.0	75.0	94.0	76.7	26.7	47.3	246
20	DUAL II MAGNUM	7.64	EC	16.0 oz/a	PRE	A 120	99.0	65.0	95.0	75.0	40.0	50.0	259
	LIBERTY	2.34	SL	32.0 oz/a	POST	B 201	99.0	70.0	95.0	95.0	45.0	.	.
	SHIELDDEX	3.33	SC	1.35 oz/a	POST	B 316	99.0	90.0	95.0	65.0	35.0	49.0	254
	PROWL H2O	3.8	SC	32.0 oz/a	POST	B							
	INDUCE			0.25 % v/v	POST	B							
						Mean =	99.0	75.0	95.0	78.3	40.0	49.5	257

University of Georgia

WEED CONTROL IN FIELD CORN WITHOUT ATRAZINE OR ROUNDUP

Trial ID: CN-01-23 Study Dir.: N. SHAY/GA CORN COMMISSION
Location: PONDER FARM Investigator: Eric P. Prostko

Rating Unit
% = PERCENT
ARM Action Codes
TY1 = 5.18878276*[24]