

University of Georgia

GRASS HERBICIDES WITH LIBERTY + ATRAZINE			
POST IN FIELD CORN			
Trial ID: CN-03-18		Study Dir.: JOHN RICHBURG	
Location: PONDER FARM		Investigator: Eric P. Prostko	

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

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Unit	Appl Stg	Code	Amt Product to Measure	Rep 1	2	3	4
1	NTC								101	202	304	407
2	LIBERTY ATRAZINE	2.34 4 L	SL	29.0 64.0	oz/a oz/a	EPOST EPOST	B B	22.65 mL/mx 49.99 mL/mx	102	215	307	401
3	LIBERTY ATRAZINE DUAL MAGNUM	2.34 4 L 7.62 EC	SL	29.0 64.0 16.0	oz/a oz/a oz/a	EPOST EPOST EPOST	B B B	22.65 mL/mx 49.99 mL/mx 12.5 mL/mx	103	206	301	412
4	LIBERTY ATRAZINE WARRANT	2.34 4 L 3 ME	SL	29.0 64.0 48.0	oz/a oz/a oz/a	EPOST EPOST EPOST	B B B	22.65 mL/mx 49.99 mL/mx 37.5 mL/mx	104	213	314	408
5	LIBERTY ATRAZINE ZIDUA	2.34 4 L 4.17 SC	SL	29.0 64.0 2.45	oz/a oz/a oz/a	EPOST EPOST EPOST	B B B	22.65 mL/mx 49.99 mL/mx 1.914 mL/mx	105	212	313	406
6	LIBERTY ATRAZINE PROWL H20	2.34 4 L 3.8 SC	SL	29.0 64.0 32.0	oz/a oz/a oz/a	EPOST EPOST EPOST	B B B	22.65 mL/mx 49.99 mL/mx 25.0 mL/mx	106	208	305	415
7	LIBERTY ATRAZINE OUTLOOK	2.34 4 L 6 EC	SL	29.0 64.0 16.0	oz/a oz/a oz/a	EPOST EPOST EPOST	B B B	22.65 mL/mx 49.99 mL/mx 12.5 mL/mx	107	210	308	411
8	LIBERTY ATRAZINE ANTHEM	2.34 4 L 2.15 SC	SL	29.0 64.0 5.0	oz/a oz/a oz/a	EPOST EPOST EPOST	B B B	25.0 mL/mx 49.99 mL/mx 3.906 mL/mx	108	214	311	402
9	RESICORE REVULIN Q ATRAZINE ROUNDUP P-MAX	3.29 51.2 4 L 5.5	SC DG	40.0 4.0 48.0 32.0	oz/a oz/a oz/a oz/a	PRE POST POST POST	A C C C	31.25 mL/mx 2.996 g/mx 37.5 mL/mx 25.0 mL/mx	109	201	309	405
10	EVERPREX RESICORE ATRAZINE ROUNDUP P-MAX	7.62 3.29 4 L 5.5	EC SC	16.0 40.0 48.0 32.0	oz/a oz/a oz/a oz/a	PRE POST POST POST	A C C C	12.5 mL/mx 31.25 mL/mx 37.5 mL/mx 25.0 mL/mx	110	203	315	409
11	ATRAZINE EVERPREX RESICORE ATRAZINE ROUNDUP P-MAX	4 L 7.62 3.29 4 L 5.5	L EC SC	32.0 16.0 40.0 48.0 32.0	oz/a oz/a oz/a oz/a oz/a	PRE PRE POST POST POST	A A C C C	25.0 mL/mx 12.5 mL/mx 31.25 mL/mx 37.5 mL/mx 25.0 mL/mx	111	205	303	410
12	ATRAZINE EVERPREX RESICORE ROUNDUP P-MAX	4 L 7.62 3.29 5.5	L EC SC	32.0 16.0 40.0 32.0	oz/a oz/a oz/a oz/a	PRE PRE POST POST	A A C C	25.0 mL/mx 12.5 mL/mx 31.25 mL/mx 25.0 mL/mx	112	209	312	403
13	ATRAZINE RESICORE ROUNDUP P-MAX	4 L 3.29 5.5	L SC	48.0 40.0 32.0	oz/a oz/a oz/a	EPOST EPOST EPOST	B B B	37.5 mL/mx 31.25 mL/mx 25.0 mL/mx	113	211	302	413
14	ROUNDUP P-MAX ATRAZINE PROWL H20	5.5 4 L 3.8	SL	32.0 64.0 32.0	oz/a oz/a oz/a	EPOST EPOST EPOST	B B B	25.0 mL/mx 49.99 mL/mx 25.0 mL/mx	114	207	306	414
15	NTC								115	204	310	404

Sort Order: Treatment

Trial Comments

ANTHEM = PYROXASULFONE (2.087 LBS/GAL) + FLUTHIACET (0.063 LBS/GAL)

RESICORE = ACETOCHLOR (2.8 LBS) + MESOTRIONE (0.3 LBS) + CLOPYRALID (0.19 LBS)

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

EVERPREX = S-METOLACHLOR

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APRIL 21, 2018 - EPOST - SUNRISE = 6:59 AM

HARVEST MOISTURE: 16.68%
YIELDS ADJUSTED TO 15.5% MOISTURE.

SUMMARY:

- 1) NO SIGNIFICANT CROP INJURY WAS OBSERVED FROM ANY TREATMENT.
- 2) GENERALLY, ALL TREATMENTS PROVIDED EXCELLENT CONTROL OF PALMER AMARANTH (99%).
- 3) PRE APPLICATIONS OF RESICORE, EVERPREX, AND ATRAZINE + EVERPREX PROVIDED FAIR TO GOOD CONTROL OF ANNUAL GRASSES (72-84%). WHEN THESE PRE'S WERE FOLLOWED WITH A POST TREATMENT, CONTROL OF GRASSES WAS IMPROVED TO AT LEAST 93%.
- 4) ADDITIONS OF GRASS HERBICIDES TO LIBERTY + ATRAZINE DID NOT INCREASE WEED CONTROL.
- 5) ANTHEM TANK-MIXED WITH LIBERTY + ATRAZINE CAUSED LEAF SPOTTING AND SPECKLING (DATA NOT REPORTED).
- 6) EPOST APPLICATIONS OF ATRAZINE + RESICORE + ROUNDUP P-MAX WERE COMPARABLE TO ROUNDUP P-MAX + ATRAZINE + PROWL H2O.
- 7) NO SIGNIFICANT YIELD EFFECTS WERE OBSERVED ($P=0.5264$, $CV = 12.12$).

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GRASS HERBICIDES WITH LIBERTY + ATRAZINE
POST IN FIELD CORN
Trial ID: CN-03-18 Study Dir.: JOHN RICHBURG
Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: JOHN RICHBURG **Title:** _____ **Postal Code:** _____
Affiliation: _____
Investigator: Eric P. Prostko **Title:** _____ **Postal Code:** _____
Affiliation: _____
Trial Status: _____ **Initiation Date:** _____ **Country:** _____
City: _____ **State/Prov.:** _____ **Postal Code:** _____
Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N
Objective: _____
Conclusions: _____

CROP AND PEST DESCRIPTION

Weed 1. AMAPA PALMER AMARANTH **2.** AGRASS TXPAN;CRAB;CROW;GOOSE
Crop 1: ZEAMA FIELD CORN **Variety:** PIONEER 1870YHR **Planting Date:** Mar-27-18
Planting Method: MONOSEM **Rate:** 36300 S/A **Depth:** 1.75 IN
Perennial Age: _____ **Row Spacing:** 36 IN **Seed Bed:** _____
Soil Temperature: _____ **Soil Moisture:** OPTIMUM **Emergence Date:** _____

Plot Width, Unit: 6 FT **Plot Length, Unit:** 25 FT **Reps:** 4
Site Type: _____
Tillage Type: CONVENTIONAL **Study Design:** RACOB
Trial Initiation Comments: _____

Previous: Crops **Pesticides** **Year**
1. PEANUT 2017 _____

MAINTENANCE

Field Prep./Maintenance: _____
No. **Date** **Treatment Name** **Form** **Form** **Form** **Rate** **Unit**
1. _____

SOIL DESCRIPTION

Texture: SAND **% OM:** 0.53 **% Sand:** 94 **% Silt:** 4 **% Clay:** 2
pH: 6.3 **CEC:** 2.6 **Soil Name:** FUQUAY **Fertility Level:** GOOD

MOISTURE CONDITIONS

On: Date	Time	Amount	Unit	Type	Interval	Unit
1. Mar-29-18		0.4	IN	SPRINKLER - LATERAL MOVE		
2. Mar-30-18		1.03	IN	RAINFALL		
3. Apr-4-18		0.03	IN	RAINFALL		
4. Apr-5-18		0.5	IN	SPRINKLER - LATERAL MOVE		
5. Apr-7-18		0.36	IN	RAINFALL		
6. Apr-12-18		0.5	IN	SPRINKLER - LATERAL MOVE		
7. Apr-15-18		1.0	IN	RAINFALL		
8. Apr-22-18		0.33	IN	RAINFALL		
9. Apr-23-18		1.18	IN	RAINFALL		
10. May-4-18		0.5	IN	SPRINKLER - LATERAL MOVE		
11. May-7-18		0.5	IN	SPRINKLER - LATERAL MOVE		
12. May-9-18		0.5	IN	SPRINKLER - LATERAL MOVE		

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

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APPLICATION DESCRIPTION									
		A	B	C	D	E	F		
Application Date:	Mar-28-18		Apr-21-18	Apr-27-18					
Time of Day:	7:30 AM		7:34 AM	7:35 AM					
Application Method:	BROADCAST		BROADCAST	BROADCAST					
Application Timing:	PRE		EPOST	POST					
Applic. Placement:	SOIL		FOLIAGE	FOLIAGE					
Air Temp., Unit:	56 F		55 F	56 F					
% Relative Humidity:	84		46	100					
Wind Velocity, Unit:	0 MPH		5 MPH	1 MPH					
Dew Presence (Y/N):	Y		N	Y					
Water Hardness:	--		--	--					
Soil Temp., Unit:	59 F		64 F	63 F					
Soil Moisture:	OPTIMUM		OPTIMUM	OPTIMUM					
% Cloud Cover:	0		50	5					

CROP STAGE AT EACH APPLICATION									
		A	B	C	D	E	F		
Crop 1	Stage: ZEAMA		5-6 LF	7 LF					
	Stage Scale:		V4	V5					
	Height, Unit:		6 IN	7 IN					

WEED STAGE AT EACH APPLICATION									
		A	B	C	D	E	F		
Weed 1	Stage: AMAPA		1-2"						
	Stage Scale:								
	Density, Unit:								
Weed 2	Stage: AGRASS		1-2"	1-2"					
	Stage Scale:								
	Density, Unit:								

APPLICATION EQUIPMENT									
		A	B	C	D	E	F		
Appl. Equipment:	BACKPACK	BACKPACK		BACKPACK					
Operating Pressure:	27	39		41					
Nozzle Type:	AIXR	AIXR		AIXR					
Nozzle Size:	11002	11002		11002					
Nozzle Spacing, Unit:	15	IN 20	IN	20 IN					
Nozzles/Row:	2								
Band Width, Unit:									
Boom Length, Unit:	60	IN 60	IN	60 IN					
Boom Height, Unit:	20	IN 20	IN	20 IN					
Ground Speed, Unit:	3.5	MPH 3.5	MPH	3.5 MPH					
Incorporation Equip.:									
Hours to Incorp.:									
Incorp. Depth, Unit:									
Carrier:	WATER	WATER		WATER					
Spray Volume, Unit:	15	GPA 15	GPA	15 GPA					
Spray pH:									
Propellant:	CO2	CO2		CO2					
Tank Mix (Y/N):									

Trt No	Treatment Application Comment

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GRASS HERBICIDES WITH LIBERTY + ATRAZINE POST IN FIELD CORN													
Trial ID: CN-03-18 Study Dir.: JOHN RICHBURG Location: PONDER FARM Investigator: Eric P. Prostko													
Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							----- ZEAMA CROP - STUNTING PERCENT Apr-10-18	AMAPA ----- CONTROL PERCENT Apr-10-18	AGRASS ----- CONTROL PERCENT Apr-10-18	----- ZEAMA CROP - STUNTING PERCENT Apr-26-18	AMAPA ----- CONTROL PERCENT Apr-26-18	AGRASS ----- CONTROL PERCENT Apr-26-18	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	1	2	3	4	5	6	
1	NTC						0.0 a	0.0 b	0.0 c	0.0 a	0.0 b	0.0 b	
2	LIBERTY ATRAZINE	2.34 4 L	SL	29.0 oz/a 64.0 oz/a	EPOST	B	0.0 a	0.0 b	0.0 c	3.8 a	99.0 a	91.0 a	
3	LIBERTY ATRAZINE DUAL MAGNUM	2.34 4 L 7.62 EC	SL	29.0 oz/a 64.0 oz/a 16.0 oz/a	EPOST	B	0.0 a	0.0 b	0.0 c	6.3 a	99.0 a	95.5 a	
4	LIBERTY ATRAZINE WARRANT	2.34 4 L 3 ME	SL	29.0 oz/a 64.0 oz/a 48.0 oz/a	EPOST	B	0.0 a	0.0 b	0.0 c	10.0 a	99.0 a	94.5 a	
5	LIBERTY ATRAZINE ZIDUA	2.34 4 L 4.17 SC	SL	29.0 oz/a 64.0 oz/a 2.45 oz/a	EPOST	B	0.0 a	0.0 b	0.0 c	7.5 a	99.0 a	96.8 a	
6	LIBERTY ATRAZINE PROWL H20	2.34 4 L 3.8 SC	SL	29.0 oz/a 64.0 oz/a 32.0 oz/a	EPOST	B	0.0 a	0.0 b	0.0 c	0.0 a	99.0 a	94.5 a	
7	LIBERTY ATRAZINE OUTLOOK	2.34 4 L 6 EC	SL	29.0 oz/a 64.0 oz/a 16.0 oz/a	EPOST	B	0.0 a	0.0 b	0.0 c	0.0 a	99.0 a	95.5 a	
8	LIBERTY ATRAZINE ANTHEM	2.34 4 L 2.15 SC	SL	32.0 oz/a 64.0 oz/a 5.0 oz/a	EPOST	B	0.0 a	0.0 b	0.0 c	6.3 a	99.0 a	89.5 a	
9	RESICORE REVULIN Q ATRAZINE ROUNDUP P-MAX	3.29 51.2 DG 4 L 5.5 SL	SC	40.0 oz/a 4.0 oz/a 48.0 oz/a 32.0 oz/a	PRE	A	7.5 a	99.0 a	93.8 a	16.3 a	99.0 a	77.3 a	
10	EVERPREX RESICORE ATRAZINE ROUNDUP P-MAX	7.62 EC 3.29 SC 4 L 5.5 SL	EC	16.0 oz/a 40.0 oz/a 48.0 oz/a 32.0 oz/a	PRE	A	10.0 a	99.0 a	87.5 ab	11.3 a	99.0 a	84.3 a	
11	ATRAZINE EVERPREX RESICORE ATRAZINE ROUNDUP P-MAX	4 L 7.62 EC 3.29 SC 4 L 5.5 SL	L	32.0 oz/a 16.0 oz/a 40.0 oz/a 48.0 oz/a 32.0 oz/a	PRE	A	2.5 a	99.0 a	76.3 b	10.0 a	99.0 a	72.0 a	
12	ATRAZINE EVERPREX RESICORE ROUNDUP P-MAX	4 L 7.62 EC 3.29 SC 5.5 SL	L	32.0 oz/a 16.0 oz/a 40.0 oz/a 32.0 oz/a	PRE	A	5.0 a	99.0 a	90.0 ab	7.5 a	99.0 a	94.5 a	
13	ATRAZINE RESICORE ROUNDUP P-MAX	4 L 3.29 SC 5.5 SL	L	48.0 oz/a 40.0 oz/a 32.0 oz/a	EPOST	B	0.0 a	0.0 b	0.0 c	7.5 a	99.0 a	99.0 a	
14	ROUNDUP P-MAX ATRAZINE PROWL H20	5.5 SL 4 L 3.8 SC	SL	32.0 oz/a 64.0 oz/a 32.0 oz/a	EPOST	B	0.0 a	0.0 b	0.0 c	2.5 a	99.0 a	97.0 a	
15	NTC						0.0 a	0.0 b	0.0 c	0.0 a	0.0 b	0.0 b	
Tukey's HSD P=.10							11.37	.	16.86	16.80	.	27.24	
Standard Deviation							4.86	0.00	7.20	7.18	0.00	11.63	
CV							291.3	0.0	31.08	121.28	0.0	14.77	
Grand Mean							1.67	26.40	23.17	5.92	85.80	78.75	
Levene's F							4.167	0.00	4.025	1.508	0.00	2.646	
Levene's Prob(F)							0.001*	0.00*	0.001*	0.147	0.00*	0.007*	
Replicate F							0.848	0.000	2.154	6.029	0.000	8.372	
Replicate Prob(F)							0.4752	1.0000	0.1078	0.0016	1.0000	0.0002	
Treatment F							1.768	0.000	122.943	1.846	0.000	31.915	
Treatment Prob(F)							0.0776	1.0000	0.0001	0.0632	1.0000	0.0001	

Means followed by same letter or symbol do not significantly differ (P=.10, Tukey's HSD)

Could not calculate Tukey's HSD (% mean diff) for columns 2,5,8 because error mean square = 0.

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							----- ZEAMA CROP - STUNTING PERCENT May-11-18	AMAPA ----- CONTROL PERCENT May-11-18	AGRASS ----- CONTROL PERCENT May-11-18	AMAPA ----- CONTROL PERCENT Jun-12-18	AGRASS ----- CONTROL PERCENT Jun-12-18	----- ZEAMA PLOT - YIELD LBS/PLOT Sep-8-18	----- ZEAMA PLOT - YIELD BU/A Sep-8-18 TY1 - 0
Trt	Treatment	Form	Form	Rate	Grow	Appl	7	8	9	10	11	12	13
No.	Name	Conc	Type	Rate	Unit	Stg							
1	NTC						0.0 a	0.0 b	0.0 b	0.0 b	0.0 c	33.0 a	169 a
2	LIBERTY	2.34	SL	29.0	oz/a	EPOST B	5.0 a	99.0 a	95.5 a	99.0 a	87.3 b	39.5 a	202 a
	ATRAZINE	4 L		64.0	oz/a	EPOST B							
3	LIBERTY	2.34	SL	29.0	oz/a	EPOST B	6.3 a	99.0 a	96.8 a	99.0 a	94.5 ab	37.0 a	189 a
	ATRAZINE	4 L		64.0	oz/a	EPOST B							
	DUAL MAGNUM	7.62	EC	16.0	oz/a	EPOST B							
4	LIBERTY	2.34	SL	29.0	oz/a	EPOST B	7.5 a	99.0 a	95.5 a	99.0 a	94.5 ab	36.0 a	184 a
	ATRAZINE	4 L		64.0	oz/a	EPOST B							
	WARRANT	3 ME		48.0	oz/a	EPOST B							
5	LIBERTY	2.34	SL	29.0	oz/a	EPOST B	5.0 a	99.0 a	97.0 a	99.0 a	94.5 ab	35.5 a	182 a
	ATRAZINE	4 L		64.0	oz/a	EPOST B							
	ZIDUA	4.17	SC	2.45	oz/a	EPOST B							
6	LIBERTY	2.34	SL	29.0	oz/a	EPOST B	0.0 a	99.0 a	99.0 a	99.0 a	96.0 ab	39.3 a	201 a
	ATRAZINE	4 L		64.0	oz/a	EPOST B							
	PROWL H20	3.8	SC	32.0	oz/a	EPOST B							
7	LIBERTY	2.34	SL	29.0	oz/a	EPOST B	5.0 a	99.0 a	99.0 a	99.0 a	93.8 ab	37.8 a	193 a
	ATRAZINE	4 L		64.0	oz/a	EPOST B							
	OUTLOOK	6 EC		16.0	oz/a	EPOST B							
8	LIBERTY	2.34	SL	32.0	oz/a	EPOST B	7.5 a	99.0 a	98.0 a	98.0 a	95.8 ab	36.3 a	185 a
	ATRAZINE	4 L		64.0	oz/a	EPOST B							
	ANTHEM	2.15	SC	5.0	oz/a	EPOST B							
9	RESICORE	3.29	SC	40.0	oz/a	PRE A	15.0 a	99.0 a	98.0 a	99.0 a	93.8 ab	36.5 a	187 a
	REVULIN Q	51.2	DG	4.0	oz/a	POST C							
	ATRAZINE	4 L		48.0	oz/a	POST C							
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST C							
10	EVERPREX	7.62	EC	16.0	oz/a	PRE A	10.0 a	99.0 a	99.0 a	99.0 a	96.0 ab	33.0 a	169 a
	RESICORE	3.29	SC	40.0	oz/a	POST C							
	ATRAZINE	4 L		48.0	oz/a	POST C							
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST C							
11	ATRAZINE	4 L		32.0	oz/a	PRE A	15.0 a	99.0 a	98.0 a	99.0 a	95.0 ab	35.0 a	179 a
	EVERPREX	7.62	EC	16.0	oz/a	PRE A							
	RESICORE	3.29	SC	40.0	oz/a	POST C							
	ATRAZINE	4 L		48.0	oz/a	POST C							
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST C							
12	ATRAZINE	4 L		32.0	oz/a	PRE A	12.5 a	99.0 a	99.0 a	99.0 a	98.0 a	38.0 a	194 a
	EVERPREX	7.62	EC	16.0	oz/a	PRE A							
	RESICORE	3.29	SC	40.0	oz/a	POST C							
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST C							
13	ATRAZINE	4 L		48.0	oz/a	EPOST B	5.0 a	99.0 a	99.0 a	98.0 a	93.8 ab	39.0 a	199 a
	RESICORE	3.29	SC	40.0	oz/a	EPOST B							
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	EPOST B							
14	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	EPOST B	0.0 a	99.0 a	99.0 a	99.0 a	95.8 ab	40.0 a	205 a
	ATRAZINE	4 L		64.0	oz/a	EPOST B							
	PROWL H20	3.8	SC	32.0	oz/a	EPOST B							
15	NTC						0.0 a	0.0 b	0.0 b	0.0 b	0.0 c	37.3 a	190 a
Tukey's HSD P=.10							15.34	.	5.97	1.65	10.61	10.47	53.5
Standard Deviation							6.55	0.00	2.55	0.70	4.53	4.47	22.9
CV							104.82	0.0	3.0	0.82	5.53	12.12	12.12
Grand Mean							6.25	85.80	84.85	85.67	81.90	36.87	188.5
Levene's F							1.74	0.00	0.758	0.00	1.568	0.264	0.264
Levene's Prob(F)							0.081	0.00*	0.706	0.00*	0.126	0.995	0.995
Replicate F							3.039	0.000	6.892	2.154	7.045	8.291	8.291
Replicate Prob(F)							0.0394	1.0000	0.0007	0.1078	0.0006	0.0002	0.0002
Treatment F							2.476	0.000	732.381	9771.539	216.564	0.940	0.940
Treatment Prob(F)							0.0118	1.0000	0.0001	0.0001	0.0001	0.5264	0.5264

Means followed by same letter or symbol do not significantly differ (P=.10, Tukey's HSD)

Could not calculate Tukey's HSD (% mean diff) for columns 2,5,8 because error mean square = 0.

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GRASS HERBICIDES WITH LIBERTY + ATRAZINE POST IN FIELD CORN	
Trial ID: CN-03-18	Study Dir.: JOHN RICHBURG
Location: PONDER FARM	Investigator: Eric P. Prostko
Weed Code	
AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.	
PRM Data Type	
TY1 = 5.113298*[12]	

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GRASS HERBICIDES WITH LIBERTY + ATRAZINE POST IN FIELD CORN												
Trial ID: CN-03-18 Study Dir.: JOHN RICHBURG Location: PONDER FARM Investigator: Eric P. Prostko												
Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							----- ZEAMA CROP - STUNTING PERCENT Apr-10-18	AMAPA ----- CONTROL PERCENT Apr-10-18	AGRASS ----- CONTROL PERCENT Apr-10-18	----- ZEAMA CROP - STUNTING PERCENT Apr-26-18	AMAPA ----- CONTROL PERCENT Apr-26-18	AGRASS ----- CONTROL PERCENT Apr-26-18
Trt Treatment	Form Form	Rate Grow	Appl									
No. Name	Conc Type	Rate Unit	Stg	Code Plot	1	2	3	4	5	6		
1 NTC				101	0.0	0.0	0.0	0.0	0.0	0.0		
				202	0.0	0.0	0.0	0.0	0.0	0.0		
				304	0.0	0.0	0.0	0.0	0.0	0.0		
				407	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		
2 LIBERTY	2.34 SL	29.0 oz/a	EPOST B	102	0.0	0.0	0.0	0.0	99.0	85.0		
ATRAZINE	4 L	64.0 oz/a	EPOST B	215	0.0	0.0	0.0	15.0	99.0	99.0		
				307	0.0	0.0	0.0	0.0	99.0	95.0		
				401	0.0	0.0	0.0	0.0	99.0	85.0		
				Mean =	0.0	0.0	0.0	3.8	99.0	91.0		
3 LIBERTY	2.34 SL	29.0 oz/a	EPOST B	103	0.0	0.0	0.0	0.0	99.0	85.0		
ATRAZINE	4 L	64.0 oz/a	EPOST B	206	0.0	0.0	0.0	15.0	99.0	99.0		
DUAL MAGNUM	7.62 EC	16.0 oz/a	EPOST B	301	0.0	0.0	0.0	10.0	99.0	99.0		
				412	0.0	0.0	0.0	0.0	99.0	99.0		
				Mean =	0.0	0.0	0.0	6.3	99.0	95.5		
4 LIBERTY	2.34 SL	29.0 oz/a	EPOST B	104	0.0	0.0	0.0	0.0	99.0	85.0		
ATRAZINE	4 L	64.0 oz/a	EPOST B	213	0.0	0.0	0.0	15.0	99.0	99.0		
WARRANT	3 ME	48.0 oz/a	EPOST B	314	0.0	0.0	0.0	15.0	99.0	95.0		
				408	0.0	0.0	0.0	10.0	99.0	99.0		
				Mean =	0.0	0.0	0.0	10.0	99.0	94.5		
5 LIBERTY	2.34 SL	29.0 oz/a	EPOST B	105	0.0	0.0	0.0	0.0	99.0	90.0		
ATRAZINE	4 L	64.0 oz/a	EPOST B	212	0.0	0.0	0.0	20.0	99.0	99.0		
ZIDUA	4.17 SC	2.45 oz/a	EPOST B	313	0.0	0.0	0.0	10.0	99.0	99.0		
				406	0.0	0.0	0.0	0.0	99.0	99.0		
				Mean =	0.0	0.0	0.0	7.5	99.0	96.8		
6 LIBERTY	2.34 SL	29.0 oz/a	EPOST B	106	0.0	0.0	0.0	0.0	99.0	85.0		
ATRAZINE	4 L	64.0 oz/a	EPOST B	208	0.0	0.0	0.0	0.0	99.0	95.0		
PROWL H20	3.8 SC	32.0 oz/a	EPOST B	305	0.0	0.0	0.0	0.0	99.0	99.0		
				415	0.0	0.0	0.0	0.0	99.0	99.0		
				Mean =	0.0	0.0	0.0	0.0	99.0	94.5		
7 LIBERTY	2.34 SL	29.0 oz/a	EPOST B	107	0.0	0.0	0.0	0.0	99.0	85.0		
ATRAZINE	4 L	64.0 oz/a	EPOST B	210	0.0	0.0	0.0	0.0	99.0	99.0		
OUTLOOK	6 EC	16.0 oz/a	EPOST B	308	0.0	0.0	0.0	0.0	99.0	99.0		
				411	0.0	0.0	0.0	0.0	99.0	99.0		
				Mean =	0.0	0.0	0.0	0.0	99.0	95.5		
8 LIBERTY	2.34 SL	32.0 oz/a	EPOST B	108	0.0	0.0	0.0	0.0	99.0	75.0		
ATRAZINE	4 L	64.0 oz/a	EPOST B	214	0.0	0.0	0.0	15.0	99.0	99.0		
ANTHEM	2.15 SC	5.0 oz/a	EPOST B	311	0.0	0.0	0.0	10.0	99.0	99.0		
				402	0.0	0.0	0.0	0.0	99.0	85.0		
				Mean =	0.0	0.0	0.0	6.3	99.0	89.5		
9 RESICORE	3.29 SC	40.0 oz/a	PRE A	109	0.0	99.0	90.0	0.0	99.0	40.0		
REVULIN Q	51.2 DG	4.0 oz/a	POST C	201	20.0	99.0	95.0	30.0	99.0	95.0		
ATRAZINE	4 L	48.0 oz/a	POST C	309	10.0	99.0	95.0	20.0	99.0	99.0		
ROUNDUP P-MAX	5.5 SL	32.0 oz/a	POST C	405	0.0	99.0	95.0	15.0	99.0	75.0		
				Mean =	7.5	99.0	93.8	16.3	99.0	77.3		
10 EVERPREX	7.62 EC	16.0 oz/a	PRE A	110	0.0	99.0	65.0	0.0	99.0	40.0		
RESICORE	3.29 SC	40.0 oz/a	POST C	203	20.0	99.0	95.0	25.0	99.0	99.0		
ATRAZINE	4 L	48.0 oz/a	POST C	315	0.0	99.0	95.0	10.0	99.0	99.0		
ROUNDUP P-MAX	5.5 SL	32.0 oz/a	POST C	409	20.0	99.0	95.0	10.0	99.0	99.0		
				Mean =	10.0	99.0	87.5	11.3	99.0	84.3		
11 ATRAZINE	4 L	32.0 oz/a	PRE A	111	0.0	99.0	65.0	0.0	99.0	40.0		
EVERPREX	7.62 EC	16.0 oz/a	PRE A	205	0.0	99.0	95.0	20.0	99.0	99.0		
RESICORE	3.29 SC	40.0 oz/a	POST C	303	0.0	99.0	50.0	20.0	99.0	50.0		
ATRAZINE	4 L	48.0 oz/a	POST C	410	10.0	99.0	95.0	0.0	99.0	99.0		
ROUNDUP P-MAX	5.5 SL	32.0 oz/a	POST C									
				Mean =	2.5	99.0	76.3	10.0	99.0	72.0		

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							----- ZEAMA CROP - STUNTING PERCENT Apr-10-18	AMAPA ----- CONTROL PERCENT Apr-10-18	AGRASS ----- CONTROL PERCENT Apr-10-18	----- ZEAMA CROP - STUNTING PERCENT Apr-26-18	AMAPA ----- CONTROL PERCENT Apr-26-18	AGRASS ----- CONTROL PERCENT Apr-26-18		
Trt	Treatment	Form	Form	Rate	Grow	Appl								
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	1	2	3	4	5	6
12	ATRAZINE	4	L	32.0	oz/a	PRE	A	112	0.0	99.0	75.0	0.0	99.0	85.0
	EVERPREX	7.62	EC	16.0	oz/a	PRE	A	209	0.0	99.0	95.0	0.0	99.0	99.0
	RESICORE	3.29	SC	40.0	oz/a	POST	C	312	20.0	99.0	95.0	30.0	99.0	99.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	C	403	0.0	99.0	95.0	0.0	99.0	95.0
								Mean =	5.0	99.0	90.0	7.5	99.0	94.5
13	ATRAZINE	4	L	48.0	oz/a	EPOST	B	113	0.0	0.0	0.0	15.0	99.0	99.0
	RESICORE	3.29	SC	40.0	oz/a	EPOST	B	211	0.0	0.0	0.0	0.0	99.0	99.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	EPOST	B	302	0.0	0.0	0.0	15.0	99.0	99.0
								413	0.0	0.0	0.0	0.0	99.0	99.0
								Mean =	0.0	0.0	0.0	7.5	99.0	99.0
14	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	EPOST	B	114	0.0	0.0	0.0	10.0	99.0	95.0
	ATRAZINE	4	L	64.0	oz/a	EPOST	B	207	0.0	0.0	0.0	0.0	99.0	99.0
	PROWL H20	3.8	SC	32.0	oz/a	EPOST	B	306	0.0	0.0	0.0	0.0	99.0	95.0
								414	0.0	0.0	0.0	0.0	99.0	99.0
								Mean =	0.0	0.0	0.0	2.5	99.0	97.0
15	NTC							115	0.0	0.0	0.0	0.0	0.0	0.0
								204	0.0	0.0	0.0	0.0	0.0	0.0
								310	0.0	0.0	0.0	0.0	0.0	0.0
								404	0.0	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0	0.0

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.						----- ZEAMA CROP - STUNTING PERCENT May-11-18	AMAPA ----- CONTROL PERCENT May-11-18	AGRASS ----- CONTROL PERCENT May-11-18	AMAPA ----- CONTROL PERCENT Jun-12-18	AGRASS ----- CONTROL PERCENT Jun-12-18	----- ZEAMA PLOT - YIELD LBS/PLOT Sep-8-18
Trt Treatment	Form Form	Rate Grow	Appl			7	8	9	10	11	12
No. Name	Conc Type	Rate Unit	Stg	Code	Plot						
1 NTC					101	0.0	0.0	0.0	0.0	0.0	32.0
					202	0.0	0.0	0.0	0.0	0.0	26.0
					304	0.0	0.0	0.0	0.0	0.0	34.0
					407	0.0	0.0	0.0	0.0	0.0	40.0
					Mean =	0.0	0.0	0.0	0.0	0.0	33.0
2 LIBERTY	2.34 SL	29.0 oz/a	EPOST B		102	10.0	99.0	85.0	99.0	65.0	41.0
ATRAZINE	4 L	64.0 oz/a	EPOST B		215	10.0	99.0	99.0	99.0	95.0	31.0
					307	0.0	99.0	99.0	99.0	90.0	46.0
					401	0.0	99.0	99.0	99.0	99.0	40.0
					Mean =	5.0	99.0	95.5	99.0	87.3	39.5
3 LIBERTY	2.34 SL	29.0 oz/a	EPOST B		103	15.0	99.0	90.0	99.0	85.0	32.0
ATRAZINE	4 L	64.0 oz/a	EPOST B		206	10.0	99.0	99.0	99.0	99.0	37.0
DUAL MAGNUM	7.62 EC	16.0 oz/a	EPOST B		301	0.0	99.0	99.0	99.0	99.0	36.0
					412	0.0	99.0	99.0	99.0	95.0	43.0
					Mean =	6.3	99.0	96.8	99.0	94.5	37.0
4 LIBERTY	2.34 SL	29.0 oz/a	EPOST B		104	10.0	99.0	85.0	99.0	85.0	33.0
ATRAZINE	4 L	64.0 oz/a	EPOST B		213	10.0	99.0	99.0	99.0	99.0	36.0
WARRANT	3 ME	48.0 oz/a	EPOST B		314	10.0	99.0	99.0	99.0	99.0	33.0
					408	0.0	99.0	99.0	99.0	95.0	42.0
					Mean =	7.5	99.0	95.5	99.0	94.5	36.0
5 LIBERTY	2.34 SL	29.0 oz/a	EPOST B		105	0.0	99.0	95.0	99.0	85.0	35.0
ATRAZINE	4 L	64.0 oz/a	EPOST B		212	10.0	99.0	95.0	99.0	99.0	30.0
ZIDUA	4.17 SC	2.45 oz/a	EPOST B		313	0.0	99.0	99.0	99.0	99.0	37.0
					406	10.0	99.0	99.0	99.0	95.0	40.0
					Mean =	5.0	99.0	97.0	99.0	94.5	35.5
6 LIBERTY	2.34 SL	29.0 oz/a	EPOST B		106	0.0	99.0	99.0	99.0	95.0	33.0
ATRAZINE	4 L	64.0 oz/a	EPOST B		208	0.0	99.0	99.0	99.0	95.0	40.0
PROWL H20	3.8 SC	32.0 oz/a	EPOST B		305	0.0	99.0	99.0	99.0	99.0	39.0
					415	0.0	99.0	99.0	99.0	95.0	45.0
					Mean =	0.0	99.0	99.0	99.0	96.0	39.3
7 LIBERTY	2.34 SL	29.0 oz/a	EPOST B		107	0.0	99.0	99.0	99.0	90.0	29.0
ATRAZINE	4 L	64.0 oz/a	EPOST B		210	0.0	99.0	99.0	99.0	95.0	44.0
OUTLOOK	6 EC	16.0 oz/a	EPOST B		308	20.0	99.0	99.0	99.0	95.0	39.0
					411	0.0	99.0	99.0	99.0	95.0	39.0
					Mean =	5.0	99.0	99.0	99.0	93.8	37.8
8 LIBERTY	2.34 SL	32.0 oz/a	EPOST B		108	0.0	99.0	95.0	95.0	90.0	35.0
ATRAZINE	4 L	64.0 oz/a	EPOST B		214	10.0	99.0	99.0	99.0	99.0	35.0
ANTHEM	2.15 SC	5.0 oz/a	EPOST B		311	10.0	99.0	99.0	99.0	95.0	37.0
					402	10.0	99.0	99.0	99.0	99.0	38.0
					Mean =	7.5	99.0	98.0	98.0	95.8	36.3
9 RESICORE	3.29 SC	40.0 oz/a	PRE A		109	10.0	99.0	95.0	99.0	90.0	36.0
REVULIN Q	51.2 DG	4.0 oz/a	POST C		201	20.0	99.0	99.0	99.0	95.0	28.0
ATRAZINE	4 L	48.0 oz/a	POST C		309	20.0	99.0	99.0	99.0	95.0	35.0
ROUNDUP P-MAX	5.5 SL	32.0 oz/a	POST C		405	10.0	99.0	99.0	99.0	95.0	47.0
					Mean =	15.0	99.0	98.0	99.0	93.8	36.5
10 EVERPREX	7.62 EC	16.0 oz/a	PRE A		110	10.0	99.0	99.0	99.0	95.0	35.0
RESICORE	3.29 SC	40.0 oz/a	POST C		203	20.0	99.0	99.0	99.0	95.0	25.0
ATRAZINE	4 L	48.0 oz/a	POST C		315	10.0	99.0	99.0	99.0	99.0	37.0
ROUNDUP P-MAX	5.5 SL	32.0 oz/a	POST C		409	0.0	99.0	99.0	99.0	95.0	35.0
					Mean =	10.0	99.0	99.0	99.0	96.0	33.0
11 ATRAZINE	4 L	32.0 oz/a	PRE A		111	10.0	99.0	95.0	99.0	95.0	39.0
EVERPREX	7.62 EC	16.0 oz/a	PRE A		205	30.0	99.0	99.0	99.0	95.0	30.0
RESICORE	3.29 SC	40.0 oz/a	POST C		303	20.0	99.0	99.0	99.0	95.0	34.0
ATRAZINE	4 L	48.0 oz/a	POST C		410	0.0	99.0	99.0	99.0	95.0	37.0
ROUNDUP P-MAX	5.5 SL	32.0 oz/a	POST C								
					Mean =	15.0	99.0	98.0	99.0	95.0	35.0

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							----- ZEAMA CROP - STUNTING PERCENT May-11-18	AMAPA ----- CONTROL PERCENT May-11-18	AGRASS ----- CONTROL PERCENT May-11-18	AMAPA ----- CONTROL PERCENT Jun-12-18	AGRASS ----- CONTROL PERCENT Jun-12-18	----- ZEAMA PLOT - YIELD LBS/PLOT Sep-8-18		
Trt	Treatment	Form	Form	Rate	Grow	Appl								
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	7	8	9	10	11	12
12	ATRAZINE	4	L	32.0	oz/a	PRE	A	112	0.0	99.0	99.0	99.0	95.0	40.0
	EVERPREX	7.62	EC	16.0	oz/a	PRE	A	209	10.0	99.0	99.0	99.0	99.0	39.0
	RESICORE	3.29	SC	40.0	oz/a	POST	C	312	30.0	99.0	99.0	99.0	99.0	29.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	C	403	10.0	99.0	99.0	99.0	99.0	44.0
								Mean =	12.5	99.0	99.0	99.0	98.0	38.0
13	ATRAZINE	4	L	48.0	oz/a	EPOST	B	113	10.0	99.0	99.0	95.0	90.0	37.0
	RESICORE	3.29	SC	40.0	oz/a	EPOST	B	211	0.0	99.0	99.0	99.0	95.0	44.0
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	EPOST	B	302	10.0	99.0	99.0	99.0	95.0	32.0
								413	0.0	99.0	99.0	99.0	95.0	43.0
								Mean =	5.0	99.0	99.0	98.0	93.8	39.0
14	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	EPOST	B	114	0.0	99.0	99.0	99.0	99.0	39.0
	ATRAZINE	4	L	64.0	oz/a	EPOST	B	207	0.0	99.0	99.0	99.0	90.0	36.0
	PROWL H20	3.8	SC	32.0	oz/a	EPOST	B	306	0.0	99.0	99.0	99.0	99.0	40.0
								414	0.0	99.0	99.0	99.0	95.0	45.0
								Mean =	0.0	99.0	99.0	99.0	95.8	40.0
15	NTC							115	0.0	0.0	0.0	0.0	0.0	30.0
								204	0.0	0.0	0.0	0.0	0.0	36.0
								310	0.0	0.0	0.0	0.0	0.0	35.0
								404	0.0	0.0	0.0	0.0	0.0	48.0
								Mean =	0.0	0.0	0.0	0.0	0.0	37.3

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Weed Code							-----
Crop Code							ZEAMA
Part Rated							PLOT -
Rating Data Type							YIELD
Rating Unit							BU/A
Rating Date							Sep-8-18
PRM Data Type							TY1
# Subsamples, Dec.							- 0
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Unit	Appl Stg	Code Plot
1	NTC						101 164 202 133 304 174 407 205 Mean = 169
2	LIBERTY	2.34	SL	29.0	oz/a	EPOST B	102 210
	ATRAZINE	4 L		64.0	oz/a	EPOST B	215 159 307 235 401 205 Mean = 202
3	LIBERTY	2.34	SL	29.0	oz/a	EPOST B	103 164
	ATRAZINE	4 L		64.0	oz/a	EPOST B	206 189
	DUAL MAGNUM	7.62	EC	16.0	oz/a	EPOST B	301 184 412 220 Mean = 189
4	LIBERTY	2.34	SL	29.0	oz/a	EPOST B	104 169
	ATRAZINE	4 L		64.0	oz/a	EPOST B	213 184
	WARRANT	3 ME		48.0	oz/a	EPOST B	314 169 408 215 Mean = 184
5	LIBERTY	2.34	SL	29.0	oz/a	EPOST B	105 179
	ATRAZINE	4 L		64.0	oz/a	EPOST B	212 153
	ZIDUA	4.17	SC	2.45	oz/a	EPOST B	313 189 406 205 Mean = 182
6	LIBERTY	2.34	SL	29.0	oz/a	EPOST B	106 169
	ATRAZINE	4 L		64.0	oz/a	EPOST B	208 205
	PROWL H20	3.8	SC	32.0	oz/a	EPOST B	305 199 415 230 Mean = 201
7	LIBERTY	2.34	SL	29.0	oz/a	EPOST B	107 148
	ATRAZINE	4 L		64.0	oz/a	EPOST B	210 225
	OUTLOOK	6 EC		16.0	oz/a	EPOST B	308 199 411 199 Mean = 193
8	LIBERTY	2.34	SL	32.0	oz/a	EPOST B	108 179
	ATRAZINE	4 L		64.0	oz/a	EPOST B	214 179
	ANTHEM	2.15	SC	5.0	oz/a	EPOST B	311 189 402 194 Mean = 185
9	RESICORE	3.29	SC	40.0	oz/a	PRE A	109 184
	REVULIN Q	51.2	DG	4.0	oz/a	POST C	201 143
	ATRAZINE	4 L		48.0	oz/a	POST C	309 179
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST C	405 240 Mean = 187
10	EVERPREX	7.62	EC	16.0	oz/a	PRE A	110 179
	RESICORE	3.29	SC	40.0	oz/a	POST C	203 128
	ATRAZINE	4 L		48.0	oz/a	POST C	315 189
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST C	409 179 Mean = 169
11	ATRAZINE	4 L		32.0	oz/a	PRE A	111 199
	EVERPREX	7.62	EC	16.0	oz/a	PRE A	205 153
	RESICORE	3.29	SC	40.0	oz/a	POST C	303 174
	ATRAZINE	4 L		48.0	oz/a	POST C	410 189
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST C	Mean = 179

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Weed Code							-----
Crop Code							ZEAMA
Part Rated							PLOT -
Rating Data Type							YIELD
Rating Unit							BU/A
Rating Date							Sep-8-18
PRM Data Type							TY1
# Subsamples, Dec.							- 0
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Unit	Appl Stg	Code Plot
12	ATRAZINE	4	L	32.0	oz/a	PRE	A 112
	EVERPREX	7.62	EC	16.0	oz/a	PRE	A 209
	RESICORE	3.29	SC	40.0	oz/a	POST	C 312
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	C 403
							Mean = 194
13	ATRAZINE	4	L	48.0	oz/a	EPOST	B 113
	RESICORE	3.29	SC	40.0	oz/a	EPOST	B 211
	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	EPOST	B 302
							413
							Mean = 199
14	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	EPOST	B 114
	ATRAZINE	4	L	64.0	oz/a	EPOST	B 207
	PROWL H20	3.8	SC	32.0	oz/a	EPOST	B 306
							414
							Mean = 205
15	NTC						115
							204
							310
							404
							Mean = 190

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GRASS HERBICIDES WITH LIBERTY + ATRAZINE POST IN FIELD CORN	
Trial ID: CN-03-18	Study Dir.: JOHN RICHBURG
Location: PONDER FARM	Investigator: Eric P. Prostko
Weed Code	
AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.	
PRM Data Type	
TY1 = 5.113298*[12]	