

University of Georgia

PROWL H2O TANK-MIXES WITH POST FIELD

CORN HERBICIDES

Trial ID: CN-04-19 Study Dir.:

Location: PONDER Investigator: Eric P. Prostko

Reps: 4

Plots: 6 by 25 feet

Appl. Amount: 15 GAL/AC

Mix Size: 1.5 L (total for 4 plots; minimum=0.782 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Stg	Appl Code	Amt Product to Measure	Diluent	Rep 1	2	3	4
1	NO PROWL H2O NO POST							- -	101	208	301	406
2	NO PROWL H2O ROUNDUP P-MAX LAUDIS ATRAZINE	5.5 3.5 4	SL SC L	32.0 oz/a 3.0 oz/a 64.0 oz/a	EPOST A EPOST A EPOST A		25.0 mL/mx 2.343 mL/mx 49.99 mL/mx	1422.7 mL	102	203	305	412
3	NO PROWL H2O ROUNDUP P-MAX ATRAZINE	5.5 4	SL L	32.0 oz/a 64.0 oz/a	EPOST A EPOST A		25.0 mL/mx 49.99 mL/mx	1425.0 mL	103	207	310	407
4	NO PROWL H2O LIBERTY ATRAZINE	2.34 4	SL L	32.0 oz/a 64.0 oz/a	EPOST A EPOST A		25.0 mL/mx 49.99 mL/mx	1425.0 mL	104	205	306	408
5	NO PROWL H2O HALEX GT ATRAZINE NIS	4.39 4	SC L	58.0 oz/a 64.0 oz/a 0.25 % v/v	EPOST A EPOST A EPOST A		45.31 mL/mx 49.99 mL/mx 3.75 mL/mx	1401.0 mL	105	201	304	403
6	NO PROWL H2O ROUNDUP P-MAX IMPACT Z	5.5 4.26	SL SC	32.0 oz/a 8.0 oz/a	EPOST A EPOST A		25.0 mL/mx 6.249 mL/mx	1468.8 mL	106	212	309	410
7	PROWL H2O NO POST	3.8	SC	32.0 oz/a	EPOST A		25.0 mL/mx	1475 mL -	107	210	311	405
8	PROWL H2O ROUNDUP P-MAX LAUDIS ATRAZINE	3.8 5.5 3.5 4	SC SL SC L	32.0 oz/a 32.0 oz/a 3.0 oz/a 64.0 oz/a	EPOST A EPOST A EPOST A EPOST A		25.0 mL/mx 25.0 mL/mx 2.343 mL/mx 49.99 mL/mx	1397.7 mL	108	209	312	411
9	PROWL H2O ROUNDUP P-MAX ATRAZINE	3.8 5.5 4	SC SL L	32.0 oz/a 32.0 oz/a 64.0 oz/a	EPOST A EPOST A EPOST A		25.0 mL/mx 25.0 mL/mx 49.99 mL/mx	1400.0 mL	109	206	308	404
10	PROWL H2O LIBERTY ATRAZINE	3.8 2.34 4	SC SL L	32.0 oz/a 32.0 oz/a 64.0 oz/a	EPOST A EPOST A EPOST A		25.0 mL/mx 25.0 mL/mx 49.99 mL/mx	1400.0 mL	110	202	303	401
11	PROWL H2O HALEX GT ATRAZINE NIS	3.8 4.39 4	SC SC L	32.0 oz/a 58.0 oz/a 64.0 oz/a 0.25 % v/v	EPOST A EPOST A EPOST A EPOST A		25.0 mL/mx 45.31 mL/mx 49.99 mL/mx 3.75 mL/mx	1376.0 mL	111	204	307	402
12	PROWL H2O ROUNDUP P-MAX IMPACT Z	3.8 5.5 4.26	SC SL SC	32.0 oz/a 32.0 oz/a 8.0 oz/a	EPOST A EPOST A EPOST A		25.0 mL/mx 25.0 mL/mx 6.249 mL/mx	1443.8 mL	112	211	302	409

Sort Order: Treatment

Trial Comments

HALEX GT = S-MOC (2.09 LBS/GAL) + MESOTRIONE (0.209 LBS/GAL) + GLYPHOSATE (2.09 LBS/GAL)
IMPACT Z = TOPRAMEZONE (0.26 LBS/GAL) + ATRAZINE (4.0 LBS/GAL)

SUMMARY:

- 1) GENERALLY, WHEN PROWL WAS ADDED TO VARIOUS POST TREATMENTS, FIELD CORN LEAF INJURY WAS SLIGHTLY INCREASED.
- 2) ADDITIONS OF PROWL DID NOT INCREASE WEED CONTROL.
- 3) PALMER AMARANTH, WILD RADISH, AND ANNUAL GRASS CONTROL WAS >96% WITH ALL TREATMENTS.
- 4) CORN YIELD DATA WAS NOT COLLECTED DUE TO SEVERE LODGING CAUSED BY AN EARLIER WIND EVENT.

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PROWL H2O TANK-MIXES WITH POST FIELD

CORN HERBICIDES

Trial ID: CN-04-19 Study Dir.:

Location: PONDER Investigator: Eric P. Prostko

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 CORN HERBICIDES
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GENERAL TRIAL INFORMATION

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

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

Trial Status: E **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:** RAPRA WILD RADISH
Weed 3: AGRASS TX PAN/CRAB/CROW/GOOSE **4:** _____

Crop 1: ZEAMA FIELD CORN **Variety:** PIONEER 1739YHR **Planting Date:** Apr-2-19
Planting Method: MONOSEM **Rate:** 36300 SEED/A **Depth:** 2 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:** FACTOR
Trial Initiation Comments: 800 LBS/A 5-15-30 PPLNT;125 LBS/A N ON APRIL 22; 128 LBS/A N ON MAY 1; AXILO MIX5 @ 2 LBS/A - MAY 2

Previous: Crops	Pesticides	Year
1. PEANUT	2018	_____

MAINTENANCE

Field Prep./Maintenance: _____

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

SOIL DESCRIPTION

Texture: SAND **% OM:** 0.93 **% Sand:** 94 **% Silt:** 4 **% Clay:** 2
pH: 6.0 **CEC:** 3.7 **Soil Name:** TIFTON **Fertility Level:** GOOD

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MOISTURE CONDITIONS

On: Date	Time	Amount	Unit	Type	Interval	Unit
1. Apr-4-19		0.25		IN SPRINKLER - LATERAL MOVE		
2. Apr-4-19		0.02		IN RAIN		
3. Apr-5-19		0.02		IN RAIN		
4. Apr-6-19		0.21		IN RAIN		
5. Apr-9-19		0.17		IN RAIN		
6. Apr-11-19		0.5		IN SPRINKLER - LATERAL MOVE		
7. Apr-14-19		0.83		IN RAIN		
8. Apr-19-19		1.43		IN RAIN		
9. Apr-25-19		0.5		IN SPRINKLER - LATERAL MOVE		
10. Apr-25-19		0.05		IN RAIN		
11. Apr-26-19		0.03		IN RAIN		
12. Apr-29-19		0.5		IN SPRINKLER - LATERAL MOVE		
13. May-6-19		0.75		IN SPRINKLER - LATERAL MOVE		
14. May-9-19		0.195		IN RAIN		
15. May-10-19		0.3		IN SPRINKLER - LATERAL MOVE		
16. May-10-19		0.11		IN RAIN		
17. May-11-19		0.65		IN RAIN		
18. May-12-19		0.27		IN RAIN		
19. May-16-19		0.5		IN SPRINKLER - LATERAL MOVE		
20. May-17-19		0.62		IN RAIN		
21. May-21-19		0.55		IN SPRINKLER - LATERAL MOVE		
22. May-23-19		0.75		IN SPRINKLER - LATERAL MOVE		
23. May-24-19		0.75		IN SPRINKLER - LATERAL MOVE		
24. May-27-19		0.75		IN SPRINKLER - LATERAL MOVE		

Overall Moisture Conditions: _____

Closest Weather Station: _____ Distance: _____ Unit: _____

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	Apr-24-19					
Time of Day:	8:07 AM					
Application Method:	BROADCAST					
Application Timing:	EPOST					
Applic. Placement:	FOLIAGE					
Air Temp., Unit:	62 F					
% Relative Humidity:	78					
Wind Velocity, Unit:	2 MPH					
Dew Presence (Y/N):	N					
Water Hardness:						
Soil Temp., Unit:	66 F					
Soil Moisture:	OPTIMUM					
% Cloud Cover:	40					

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Stage: ZEAMA						
Stage Scale:	V4; 8" T					
Height, Unit:						

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 Stage: AMAPA	1-2" T					
Stage Scale:						
Density, Unit:						
Weed 2 Stage: RAPRA	1-2" T					
Stage Scale:	4-6 L					
Density, Unit:						
Weed 3 Stage: AGRASS	1-2" T					
Stage Scale:						
Density, Unit:						

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		APPLICATION EQUIPMENT					
		A	B	C	D	E	F
Appl. Equipment:	BACKPACK	_____	_____	_____	_____	_____	_____
Operating Pressure:	32	_____	_____	_____	_____	_____	_____
Nozzle Type:	AIXR	_____	_____	_____	_____	_____	_____
Nozzle Size:	11002	_____	_____	_____	_____	_____	_____
Nozzle Spacing, Unit:	20	IN _____	_____	_____	_____	_____	_____
Nozzles/Row:	_____	_____	_____	_____	_____	_____	_____
Band Width, Unit:	_____	_____	_____	_____	_____	_____	_____
Boom Length, Unit:	60	IN _____	_____	_____	_____	_____	_____
Boom Height, Unit:	20	IN _____	_____	_____	_____	_____	_____
Ground Speed, Unit:	3.5	IN _____	_____	_____	_____	_____	_____
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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PROWL H2O TANK-MIXES WITH POST FIELD
 CORN HERBICIDES
 Trial ID: CN-04-19 Study Dir.:
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	----- ZEAMA Leaf - Burn/chl Percent Apr-26-19 2 DA-A	----- ZEAMA Stunting Percent May-2-19 8 DA-A	----- ZEAMA Leaf - Burn Percent May-2-19 8 DA-A	AMAPA ----- Control Percent May-2-19 8 DA-A	RAPRA ----- Control Percent May-2-19 8 DA-A	AGRASS ----- Control Percent May-2-19 8 DA-A
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Grow Stg	Appl Code	
TABLE OF R MEANS						
Replicate 1						2.9 1.7 2.1 82.5 82.5 82.5
Replicate 2						4.2 0.0 2.1 82.5 82.5 81.4
Replicate 3						2.9 0.0 2.5 82.5 82.5 82.2
Replicate 4						2.9 0.0 2.9 82.5 82.5 82.5
TABLE OF A (PROWL) MEANS						
1 NO PROWL H2O						2.1 b 0.4 - 1.3 b 82.5 - 82.5 - 81.8 -
2 PROWL H2O	3.8 SC		32.0 oz/a	EPOST A		4.4 a 0.4 - 3.5 a 82.5 - 82.5 - 82.5 -
LSD P=.10						0.49 2.02
Standard Deviation						0.72 0.00 2.98 0.00 0.00 1.77
CV						22.35 0.00 124.20 0.00 0.00 2.15
TABLE OF B (POST) MEANS						
1 NO POST						0.6 c 0.0 - 0.0 d 0.0 b 0.0 b 0.0 b
2 ROUNDUP P-MAX	5.5 SL		32.0 oz/a	EPOST A		3.8 b 1.3 - 0.6 cd 99.0 a 99.0 a 99.0 a
2 LAUDIS	3.5 SC		3.0 oz/a	EPOST A		
2 ATRAZINE	4 L		64.0 oz/a	EPOST A		
3 ROUNDUP P-MAX	5.5 SL		32.0 oz/a	EPOST A		4.4 ab 0.0 - 2.5 bc 99.0 a 99.0 a 99.0 a
3 ATRAZINE	4 L		64.0 oz/a	EPOST A		
4 LIBERTY	2.34 SL		32.0 oz/a	EPOST A		0.6 c 0.6 - 0.0 d 99.0 a 99.0 a 99.0 a
4 ATRAZINE	4 L		64.0 oz/a	EPOST A		
5 HALEX GT	4.39 SC		58.0 oz/a	EPOST A		6.3 a 0.6 - 8.1 a 99.0 a 99.0 a 97.9 a
5 ATRAZINE	4 L		64.0 oz/a	EPOST A		
5 NIS			0.25 % v/v	EPOST A		
6 ROUNDUP P-MAX	5.5 SL		32.0 oz/a	EPOST A		3.8 b 0.0 - 3.1 b 99.0 a 99.0 a 98.0 a
6 IMPACT Z	4.26 SC		8.0 oz/a	EPOST A		
LSD P=.10						1.98 1.27 2.23
Standard Deviation						2.26 1.44 2.55 0.00 0.00 1.39
CV						69.96 346.41 106.36 0.00 0.00 1.69
TABLE OF A (PROWL) B (POST) MEANS						
1 NO PROWL H2O 1 NO POST						0.0 - 0.0 - 0.0 c 0.0 b 0.0 b 0.0 -
2 PROWL H2O 1 NO POST	3.8 SC		32.0 oz/a	EPOST A		1.3 - 0.0 - 0.0 c 0.0 b 0.0 b 0.0 -
1 NO PROWL H2O						2.5 - 2.5 - 1.3 bc 99.0 a 99.0 a 99.0 -
2 ROUNDUP P-MAX	5.5 SL		32.0 oz/a	EPOST A		
2 LAUDIS	3.5 SC		3.0 oz/a	EPOST A		
2 ATRAZINE	4 L		64.0 oz/a	EPOST A		
2 PROWL H2O	3.8 SC		32.0 oz/a	EPOST A		5.0 - 0.0 - 0.0 c 99.0 a 99.0 a 99.0 -
2 ROUNDUP P-MAX	5.5 SL		32.0 oz/a	EPOST A		
2 LAUDIS	3.5 SC		3.0 oz/a	EPOST A		
2 ATRAZINE	4 L		64.0 oz/a	EPOST A		
1 NO PROWL H2O						3.8 - 0.0 - 2.5 bc 99.0 a 99.0 a 99.0 -
3 ROUNDUP P-MAX	5.5 SL		32.0 oz/a	EPOST A		
3 ATRAZINE	4 L		64.0 oz/a	EPOST A		
2 PROWL H2O	3.8 SC		32.0 oz/a	EPOST A		5.0 - 0.0 - 2.5 bc 99.0 a 99.0 a 99.0 -
3 ROUNDUP P-MAX	5.5 SL		32.0 oz/a	EPOST A		
3 ATRAZINE	4 L		64.0 oz/a	EPOST A		

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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PROWL H2O TANK-MIXES WITH POST FIELD CORN HERBICIDES							-----	-----	-----	AMAPA	RAPRA	AGRASS	
Trial ID: CN-04-19 Study Dir.: Location: PONDER Investigator: Eric P. Prostko							ZEAMA	ZEAMA	ZEAMA	-----	-----	-----	
Weed Code						Leaf -	Leaf -	Leaf -					
Crop Code						Burn/chl	Stunting	Burn	Control	Control	Control		
Part Rated						Percent	Percent	Percent	Percent	Percent	Percent		
Rating Data Type						Apr-26-19	May-2-19	May-2-19	May-2-19	May-2-19	May-2-19		
Rating Unit						2 DA-A	8 DA-A	8 DA-A	8 DA-A	8 DA-A	8 DA-A		
Rating Date													
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Unit	Appl Stg	Code	1	2	3	4	5	6
1	NO PROWL H2O							0.0 -	0.0 -	0.0 c	99.0 a	99.0 a	99.0 -
4	LIBERTY	2.34	SL	32.0	oz/a	EPOST	A						
4	ATRAZINE	4	L	64.0	oz/a	EPOST	A						
2	PROWL H2O	3.8	SC	32.0	oz/a	EPOST	A	1.3 -	1.3 -	0.0 c	99.0 a	99.0 a	99.0 -
4	LIBERTY	2.34	SL	32.0	oz/a	EPOST	A						
4	ATRAZINE	4	L	64.0	oz/a	EPOST	A						
1	NO PROWL H2O							2.5 -	0.0 -	2.5 bc	99.0 a	99.0 a	96.8 -
5	HALEX GT	4.39	SC	58.0	oz/a	EPOST	A						
5	ATRAZINE	4	L	64.0	oz/a	EPOST	A						
5	NIS			0.25	% v/v	EPOST	A						
2	PROWL H2O	3.8	SC	32.0	oz/a	EPOST	A	10.0 -	1.3 -	13.8 a	99.0 a	99.0 a	99.0 -
5	HALEX GT	4.39	SC	58.0	oz/a	EPOST	A						
5	ATRAZINE	4	L	64.0	oz/a	EPOST	A						
5	NIS			0.25	% v/v	EPOST	A						
1	NO PROWL H2O							3.8 -	0.0 -	1.3 bc	99.0 a	99.0 a	97.0 -
6	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	EPOST	A						
6	IMPACT Z	4.26	SC	8.0	oz/a	EPOST	A						
2	PROWL H2O	3.8	SC	32.0	oz/a	EPOST	A	3.8 -	0.0 -	5.0 b	99.0 a	99.0 a	99.0 -
6	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	EPOST	A						
6	IMPACT Z	4.26	SC	8.0	oz/a	EPOST	A						
LSD	P=.10							3.23	2.40	3.94	.	.	1.72
Standard Deviation								2.60	1.94	3.18	0.00	0.00	1.39
CV								80.58	464.76	132.68	0.00	0.00	1.69

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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PROWL H2O TANK-MIXES WITH POST FIELD CORN HERBICIDES Trial ID: CN-04-19 Study Dir.: Location: PONDER Investigator: Eric P. Prostko							----- ZEAMA	AMAPA -----	RARA -----	AGRASS -----	AMAPA -----	AGRASS -----
Weed Code							Stunting Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent
Crop Code							May-13-19	May-13-19	May-13-19	May-13-19	Jun-13-19	Jun-13-19
Part Rated							19 DA-A	19 DA-A	19 DA-A	19 DA-A	50 DA-A	50 DA-A
Rating Data Type												
Rating Unit												
Rating Date												
Trt-Eval Interval												
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	7	8	9	10	11	12
TABLE OF R MEANS												
Replicate 1							0.8	82.2	82.5	87.3	82.2	80.5
Replicate 2							0.0	81.8	81.8	84.6	81.0	79.3
Replicate 3							0.0	82.5	82.5	87.9	81.5	81.8
Replicate 4							0.0	82.5	82.5	87.9	87.9	85.7
TABLE OF A (PROWL) MEANS												
1 NO PROWL H2O							0.0 -	82.1 -	82.2 -	81.0 b	81.6 -	80.5 -
2 PROWL H2O 3.8 SC 32.0 oz/a EPOST A							0.4 -	82.3 -	82.5 -	92.8 a	84.7 -	83.1 -
LSD P=.10							0.98	1.08	0.78	3.48	6.15	4.78
Standard Deviation							1.44	1.59	1.15	5.12	9.05	7.03
CV							692.82	1.93	1.40	5.89	10.89	8.59
TABLE OF B (POST) MEANS												
1 NO POST							0.0 -	0.0 c	0.0 b	32.5 c	8.1 b	6.3 b
2 ROUNDUP P-MAX 5.5 SL 32.0 oz/a EPOST A							0.0 -	99.0 a	99.0 a	99.0 a	98.5 a	97.5 a
2 LAUDIS 3.5 SC 3.0 oz/a EPOST A												
2 ATRAZINE 4 L 64.0 oz/a EPOST A												
3 ROUNDUP P-MAX 5.5 SL 32.0 oz/a EPOST A							0.0 -	99.0 a	98.5 a	97.4 ab	98.5 a	97.4 a
3 ATRAZINE 4 L 64.0 oz/a EPOST A												
4 LIBERTY 2.34 SL 32.0 oz/a EPOST A							1.3 -	99.0 a	99.0 a	98.5 a	98.5 a	96.5 a
4 ATRAZINE 4 L 64.0 oz/a EPOST A												
5 HALEX GT 4.39 SC 58.0 oz/a EPOST A							0.0 -	99.0 a	98.5 a	97.9 ab	99.0 a	97.0 a
5 ATRAZINE 4 L 64.0 oz/a EPOST A												
5 NIS 0.25 % v/v EPOST A												
6 ROUNDUP P-MAX 5.5 SL 32.0 oz/a EPOST A							0.0 -	97.4 b	99.0 a	96.3 b	96.3 a	96.3 a
6 IMPACT Z 4.26 SC 8.0 oz/a EPOST A												
LSD P=.10							1.27	1.08	0.64	2.06	8.28	6.34
Standard Deviation							1.44	1.23	0.73	2.35	9.45	7.23
CV							692.82	1.50	0.89	2.70	11.37	8.84
TABLE OF A (PROWL) B (POST) MEANS												
1 NO PROWL H2O							0.0 -	0.0 -	0.0 -	0.0 d	0.0 -	0.0 -
1 NO POST												
2 PROWL H2O 3.8 SC 32.0 oz/a EPOST A							0.0 -	0.0 -	0.0 -	65.0 c	16.3 -	12.5 -
1 NO PROWL H2O							0.0 -	99.0 -	99.0 -	99.0 a	99.0 -	98.0 -
2 ROUNDUP P-MAX 5.5 SL 32.0 oz/a EPOST A												
2 LAUDIS 3.5 SC 3.0 oz/a EPOST A												
2 ATRAZINE 4 L 64.0 oz/a EPOST A												
2 PROWL H2O 3.8 SC 32.0 oz/a EPOST A							0.0 -	99.0 -	99.0 -	99.0 a	98.0 -	97.0 -
2 ROUNDUP P-MAX 5.5 SL 32.0 oz/a EPOST A												
2 LAUDIS 3.5 SC 3.0 oz/a EPOST A												
2 ATRAZINE 4 L 64.0 oz/a EPOST A												
1 NO PROWL H2O							0.0 -	99.0 -	98.0 -	96.8 ab	98.0 -	95.8 -
3 ROUNDUP P-MAX 5.5 SL 32.0 oz/a EPOST A												
3 ATRAZINE 4 L 64.0 oz/a EPOST A												
2 PROWL H2O 3.8 SC 32.0 oz/a EPOST A							0.0 -	99.0 -	99.0 -	98.0 a	99.0 -	99.0 -
3 ROUNDUP P-MAX 5.5 SL 32.0 oz/a EPOST A												
3 ATRAZINE 4 L 64.0 oz/a EPOST A												

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
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PROWL H2O TANK-MIXES WITH POST FIELD CORN HERBICIDES							-----	AMAPA	RARA	AGRASS	AMAPA	AGRASS	
Trial ID: CN-04-19 Study Dir.: Location: PONDER Investigator: Eric P. Prostko							ZEAMA	-----	-----	-----	-----	-----	-----
Weed Code							Stunting	Control	Control	Control	Control	Control	Control
Crop Code							Percent	Percent	Percent	Percent	Percent	Percent	Percent
Part Rated							May-13-19	May-13-19	May-13-19	May-13-19	Jun-13-19	Jun-13-19	Jun-13-19
Rating Data Type							19 DA-A	19 DA-A	19 DA-A	19 DA-A	50 DA-A	50 DA-A	50 DA-A
Rating Unit													
Rating Date													
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	7	8	9	10	11	12	
1	NO PROWL H2O						0.0 -	99.0 -	99.0 -	98.0 a	98.0 -	98.0 -	
4	LIBERTY	2.34	SL	32.0 oz/a	EPOST	A							
4	ATRAZINE	4	L	64.0 oz/a	EPOST	A							
2	PROWL H2O	3.8	SC	32.0 oz/a	EPOST	A	2.5 -	99.0 -	99.0 -	99.0 a	99.0 -	95.0 -	
4	LIBERTY	2.34	SL	32.0 oz/a	EPOST	A							
4	ATRAZINE	4	L	64.0 oz/a	EPOST	A							
1	NO PROWL H2O						0.0 -	99.0 -	98.0 -	96.8 ab	99.0 -	97.0 -	
5	HALEX GT	4.39	SC	58.0 oz/a	EPOST	A							
5	ATRAZINE	4	L	64.0 oz/a	EPOST	A							
5	NIS			0.25 % v/v	EPOST	A							
2	PROWL H2O	3.8	SC	32.0 oz/a	EPOST	A	0.0 -	99.0 -	99.0 -	99.0 a	99.0 -	97.0 -	
5	HALEX GT	4.39	SC	58.0 oz/a	EPOST	A							
5	ATRAZINE	4	L	64.0 oz/a	EPOST	A							
5	NIS			0.25 % v/v	EPOST	A							
1	NO PROWL H2O						0.0 -	96.8 -	99.0 -	95.5 b	95.5 -	94.5 -	
6	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	EPOST	A							
6	IMPACT Z	4.26	SC	8.0 oz/a	EPOST	A							
2	PROWL H2O	3.8	SC	32.0 oz/a	EPOST	A	0.0 -	98.0 -	99.0 -	97.0 ab	97.0 -	98.0 -	
6	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	EPOST	A							
6	IMPACT Z	4.26	SC	8.0 oz/a	EPOST	A							
LSD P=.10							1.79	1.97	0.91	2.41	12.02	9.78	
Standard Deviation							1.44	1.59	0.73	1.94	9.70	7.89	
CV							692.82	1.93	0.89	2.23	11.66	9.65	

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

PROWL H2O TANK-MIXES WITH POST FIELD
 CORN HERBICIDES
 Trial ID: CN-04-19 Study Dir.:
 Location: PONDER Investigator: Eric P. Prostko

COMPLETE FACTORIAL AOV For ----- ZEAMA Leaf Burn/chl Percent Apr-26-19 2 DA-A (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	524.479167				
R	3	14.062500	4.687500	0.692	0.5708	
A	1	63.020833	63.020833	121.000	0.0016	0.5
RA	3	1.562500	0.520833			
B	5	196.354167	39.270833	7.694	0.0009	2.0
RB	15	76.562500	5.104167			
AB	5	71.354167	14.270833	2.108	0.1209	3.2
RAB	15	101.562500	6.770833			

COMPLETE FACTORIAL AOV For ----- ZEAMA Stunting Percent May-2-19 8 DA-A (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	141.666667				
R	3	25.000000	8.333333	2.222	0.1278	
A	1	0.000000	0.000000	0.000	1.0000	.
RA	3	0.000000	0.000000			
B	5	10.416667	2.083333	1.000	0.4509	1.3
RB	15	31.250000	2.083333			
AB	5	18.750000	3.750000	1.000	0.4509	2.4
RAB	15	56.250000	3.750000			

COMPLETE FACTORIAL AOV For ----- ZEAMA Leaf Burn Percent May-2-19 8 DA-A (Data Column 3)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	949.479167				
R	3	5.729167	1.909722	0.189	0.9022	
A	1	63.020833	63.020833	7.118	0.0758	2.0
RA	3	26.562500	8.854167			
B	5	383.854167	76.770833	11.824	0.0001	2.2
RB	15	97.395833	6.493056			
AB	5	221.354167	44.270833	4.381	0.0117	3.9
RAB	15	151.562500	10.104167			

COMPLETE FACTORIAL AOV For AMAPA ----- Control Percent May-2-19 8 DA-A (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	65340.000000				
R	3	0.000000	0.000000	0.000	1.0000	
A	1	0.000000	0.000000	0.000	1.0000	.
RA	3	0.000000	0.000000			
B	5	65340.000000	13068.000000	0.000	1.0000	.
RB	15	0.000000	0.000000			
AB	5	0.000000	0.000000	0.000	1.0000	.
RAB	15	0.000000	0.000000			

COMPLETE FACTORIAL AOV For RAPRA ----- Control Percent May-2-19 8 DA-A (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	65340.000000				
R	3	0.000000	0.000000	0.000	1.0000	
A	1	0.000000	0.000000	0.000	1.0000	.
RA	3	0.000000	0.000000			
B	5	65340.000000	13068.000000	0.000	1.0000	.
RB	15	0.000000	0.000000			
AB	5	0.000000	0.000000	0.000	1.0000	.
RAB	15	0.000000	0.000000			

COMPLETE FACTORIAL AOV For AGRASS ----- Control Percent May-2-19 8 DA-A (Data Column 6)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	64885.979167				
R	3	9.395833	3.131944	1.621	0.2265	
A	1	6.020833	6.020833	1.922	0.2597	1.2
RA	3	9.395833	3.131944			
B	5	64791.104167	12958.220833	6707.347	0.0001	1.2
RB	15	28.979167	1.931944			
AB	5	12.104167	2.420833	1.253	0.3339	1.7
RAB	15	28.979167	1.931944			

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

PROWL H2O TANK-MIXES WITH POST FIELD

CORN HERBICIDES

Trial ID: CN-04-19 Study Dir.:

Location: PONDER Investigator: Eric P. Prostko

COMPLETE FACTORIAL AOV For ----- ZEAMA Stunting Percent May-13-19 19 DA-A (Data Column 7)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	97.916667				
R	3	6.250000	2.083333	1.000	0.4199	
A	1	2.083333	2.083333	1.000	0.3910	1.0
RA	3	6.250000	2.083333			
B	5	10.416667	2.083333	1.000	0.4509	1.3
RB	15	31.250000	2.083333			
AB	5	10.416667	2.083333	1.000	0.4509	1.8
RAB	15	31.250000	2.083333			

COMPLETE FACTORIAL AOV For AMAPA ----- Control Percent May-13-19 19 DA-A (Data Column 8)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	65004.479167				
R	3	4.562500	1.520833	0.603	0.6229	
A	1	0.520833	0.520833	0.207	0.6803	1.1
RA	3	7.562500	2.520833			
B	5	64928.604167	12985.720833	8538.557	0.0001	1.1
RB	15	22.812500	1.520833			
AB	5	2.604167	0.520833	0.207	0.9546	2.0
RAB	15	37.812500	2.520833			

COMPLETE FACTORIAL AOV For RARA ----- Control Percent May-13-19 19 DA-A (Data Column 9)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	65106.666667				
R	3	4.000000	1.333333	2.500	0.0991	
A	1	1.333333	1.333333	1.000	0.3910	0.8
RA	3	4.000000	1.333333			
B	5	65078.666667	13015.733333	24404.502	0.0001	0.6
RB	15	8.000000	0.533333			
AB	5	2.666667	0.533333	1.000	0.4509	0.9
RAB	15	8.000000	0.533333			

COMPLETE FACTORIAL AOV For AGRASS ----- Control Percent May-13-19 19 DA-A (Data Column 10)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	37241.666667				
R	3	90.666667	30.222222	8.012	0.0020	
A	1	1680.333333	1680.333333	64.081	0.0041	3.5
RA	3	78.666667	26.222222			
B	5	28463.416667	5692.683333	1033.989	0.0001	2.1
RB	15	82.583333	5.505556			
AB	5	6789.416667	1357.883333	359.969	0.0001	2.4
RAB	15	56.583333	3.772222			

COMPLETE FACTORIAL AOV For AMAPA ----- Control Percent Jun-13-19 50 DA-A (Data Column 11)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	57973.979167				
R	3	372.395833	124.131944	1.321	0.3046	
A	1	117.187500	117.187500	1.430	0.3177	6.2
RA	3	245.895833	81.965278			
B	5	54067.604167	10813.520833	121.094	0.0001	8.3
RB	15	1339.479167	89.298611			
AB	5	421.437500	84.287500	0.897	0.5081	12.0
RAB	15	1409.979167	93.998611			

COMPLETE FACTORIAL AOV For AGRASS ----- Control Percent Jun-13-19 50 DA-A (Data Column 12)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	57345.312500				
R	3	277.729167	92.576389	1.487	0.2584	
A	1	77.520833	77.520833	1.569	0.2991	4.8
RA	3	148.229167	49.409722			
B	5	54822.437500	10964.487500	209.607	0.0001	6.3
RB	15	784.645833	52.309722			
AB	5	300.604167	60.120833	0.965	0.4694	9.8
RAB	15	934.145833	62.276389			

Weed Code

AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.

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

PROWL H2O TANK-MIXES WITH POST FIELD CORN HERBICIDES Trial ID: CN-04-19 Study Dir.: Location: PONDER Investigator: Eric P. Prostko
RAPRA = RADISH, WILD / RAPHANUS RAPHANISTRUM L. <u>Part Rated</u> Leaf = LEAF / FOLIAGE

University of Georgia

PROWL H2O TANK-MIXES WITH POST FIELD
 CORN HERBICIDES
 Trial ID: CN-04-19 Study Dir.:
 Location: PONDER Investigator: Eric P. Prostko

					-----	AMAPA	RARA	AGRASS	AMAPA
					ZEAMA	-----	-----	-----	-----
					Stunting	Control	Control	Control	Control
					Percent	Percent	Percent	Percent	Percent
					May-13-19	May-13-19	May-13-19	May-13-19	Jun-13-19
					19 DA-A	19 DA-A	19 DA-A	19 DA-A	50 DA-A
Trt	Treatment	Form	Form	Rate	Grow	Appl			
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	
					7	8	9	10	11
1	NO PROWL H2O NO POST								
						101		0.0	0.0
						208		0.0	0.0
						301		0.0	0.0
						406		0.0	0.0
						Mean =		0.0	0.0
2	NO PROWL H2O ROUNDUP P-MAX LAUDIS ATRAZINE	5.5 SL 3.5 SC 4 L		32.0 oz/a 3.0 oz/a 64.0 oz/a	EPOST A EPOST A EPOST A	102 203 305 412		0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0
						Mean =		0.0	99.0
3	NO PROWL H2O ROUNDUP P-MAX ATRAZINE	5.5 SL 4 L		32.0 oz/a 64.0 oz/a	EPOST A EPOST A	103 207 310 407		0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0
						Mean =		0.0	98.0
4	NO PROWL H2O LIBERTY ATRAZINE	2.34 SL 4 L		32.0 oz/a 64.0 oz/a	EPOST A EPOST A	104 205 306 408		0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0
						Mean =		0.0	98.0
5	NO PROWL H2O HALEX GT ATRAZINE NIS	4.39 SC 4 L		58.0 oz/a 64.0 oz/a 0.25 % v/v	EPOST A EPOST A EPOST A	105 201 304 403		0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0
						Mean =		0.0	98.0
6	NO PROWL H2O ROUNDUP P-MAX IMPACT Z	5.5 SL 4.26 SC		32.0 oz/a 8.0 oz/a	EPOST A EPOST A	106 212 309 410		0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0
						Mean =		0.0	96.8
7	PROWL H2O NO POST	3.8 SC		32.0 oz/a	EPOST A	107 210 311 405		0.0 0.0 0.0 0.0	0.0 65.0 65.0 65.0
						Mean =		0.0	16.3
8	PROWL H2O ROUNDUP P-MAX LAUDIS ATRAZINE	3.8 SC 5.5 SL 3.5 SC 4 L		32.0 oz/a 32.0 oz/a 3.0 oz/a 64.0 oz/a	EPOST A EPOST A EPOST A EPOST A	108 209 312 411		0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0
						Mean =		0.0	99.0
9	PROWL H2O ROUNDUP P-MAX ATRAZINE	3.8 SC 5.5 SL 4 L		32.0 oz/a 32.0 oz/a 64.0 oz/a	EPOST A EPOST A EPOST A	109 206 308 404		0.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0
						Mean =		0.0	99.0
10	PROWL H2O LIBERTY ATRAZINE	3.8 SC 2.34 SL 4 L		32.0 oz/a 32.0 oz/a 64.0 oz/a	EPOST A EPOST A EPOST A	110 202 303 401		10.0 0.0 0.0 0.0	99.0 99.0 99.0 99.0
						Mean =		2.5	99.0

University of Georgia

PROWL H2O TANK-MIXES WITH POST FIELD
 CORN HERBICIDES
 Trial ID: CN-04-19 Study Dir.:
 Location: PONDER Investigator: Eric P. Prostko

Weed Code	-----	AMAPA	RARA	AGRASS	AMAPA
Crop Code	ZEAMA	-----	-----	-----	-----
Part Rated					
Rating Data Type	Stunting	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Date	May-13-19	May-13-19	May-13-19	May-13-19	Jun-13-19
Trt-Eval Interval	19 DA-A	19 DA-A	19 DA-A	19 DA-A	50 DA-A
Trt Treatment	Form Form	Rate	Grow	Appl	
No. Name	Conc Type	Rate Unit	Stg	Code Plot	
					7
					8
					9
					10
					11
11 PROWL H2O	3.8 SC	32.0 oz/a	EPOST A	111	0.0
HALEX GT	4.39 SC	58.0 oz/a	EPOST A	204	0.0
ATRAZINE	4 L	64.0 oz/a	EPOST A	307	0.0
NIS		0.25 % v/v	EPOST A	402	0.0
			Mean =		0.0
12 PROWL H2O	3.8 SC	32.0 oz/a	EPOST A	112	0.0
ROUNDUP P-MAX	5.5 SL	32.0 oz/a	EPOST A	211	0.0
IMPACT Z	4.26 SC	8.0 oz/a	EPOST A	302	0.0
				409	0.0
			Mean =		0.0

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PROWL H2O TANK-MIXES WITH POST FIELD
 CORN HERBICIDES
 Trial ID: CN-04-19 Study Dir.:
 Location: PONDER Investigator: Eric P. Prostko

Weed Code						AGRASS	
Crop Code						----	
Part Rated							
Rating Data Type						Control	
Rating Unit						Percent	
Rating Date						Jun-13-19	
Trt-Eval Interval						50 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code Plot	
							12
1	NO PROWL H2O NO POST					101 208 301 406 Mean =	0.0 0.0 0.0 0.0 0.0
2	NO PROWL H2O ROUNDUP P-MAX LAUDIS ATRAZINE	5.5 SL 3.5 SC 4 L		32.0 oz/a 3.0 oz/a 64.0 oz/a	EPOST A EPOST A EPOST A	102 203 305 412 Mean =	99.0 99.0 99.0 95.0 98.0
3	NO PROWL H2O ROUNDUP P-MAX ATRAZINE	5.5 SL 4 L		32.0 oz/a 64.0 oz/a	EPOST A EPOST A	103 207 310 407 Mean =	95.0 90.0 99.0 99.0 95.8
4	NO PROWL H2O LIBERTY ATRAZINE	2.34 SL 4 L		32.0 oz/a 64.0 oz/a	EPOST A EPOST A	104 205 306 408 Mean =	99.0 95.0 99.0 99.0 98.0
5	NO PROWL H2O HALEX GT ATRAZINE NIS	4.39 SC 4 L		58.0 oz/a 64.0 oz/a 0.25 % v/v	EPOST A EPOST A EPOST A	105 201 304 403 Mean =	95.0 95.0 99.0 99.0 97.0
6	NO PROWL H2O ROUNDUP P-MAX IMPACT Z	5.5 SL 4.26 SC		32.0 oz/a 8.0 oz/a	EPOST A EPOST A	106 212 309 410 Mean =	95.0 85.0 99.0 99.0 94.5
7	PROWL H2O NO POST	3.8 SC		32.0 oz/a	EPOST A	107 210 311 405 Mean =	0.0 0.0 0.0 50.0 12.5
8	PROWL H2O ROUNDUP P-MAX LAUDIS ATRAZINE	3.8 SC 5.5 SL 3.5 SC 4 L		32.0 oz/a 32.0 oz/a 3.0 oz/a 64.0 oz/a	EPOST A EPOST A EPOST A EPOST A	108 209 312 411 Mean =	99.0 95.0 95.0 99.0 97.0
9	PROWL H2O ROUNDUP P-MAX ATRAZINE	3.8 SC 5.5 SL 4 L		32.0 oz/a 32.0 oz/a 64.0 oz/a	EPOST A EPOST A EPOST A	109 206 308 404 Mean =	99.0 99.0 99.0 99.0 99.0
10	PROWL H2O LIBERTY ATRAZINE	3.8 SC 2.34 SL 4 L		32.0 oz/a 32.0 oz/a 64.0 oz/a	EPOST A EPOST A EPOST A	110 202 303 401 Mean =	95.0 95.0 95.0 95.0 95.0

University of Georgia

PROWL H2O TANK-MIXES WITH POST FIELD

CORN HERBICIDES

Trial ID: CN-04-19 Study Dir.:

Location: PONDER Investigator: Eric P. Prostko

Weed Code

AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.

RAPRA = RADISH, WILD / RAPHANUS RAPHANISTRUM L.

Part Rated

Leaf = LEAF / FOLIAGE