

University of Georgia

ADDING PROWL TO COMMON POST TREATMENTS IN FIELD CORN - II

Trial ID: CN-05-10 Protocol ID:
 Location: ATTAPULGUS Study Director:
 Project ID: Investigator: Eric P. Prostko
 Sponsor Contact:

Reps: 4 Plots: 6 by 25 feet
 Spray vol: 15 gal/ac Mix size: 1.5 liters (min .78211)

Trt No.	Treatment Type Name	Form Conc	Form Type	Rate Rate Unit	Growth Stage	Appl Code	Amt Product to Measure	Rep 1	2	3	4
1	CHK UNTREATED NO PROWL							108	211	310	402
2	CHK UNTREATED PROWL H2O	3.8	SC	1.0 qt/a	POST	A	25.0 ml/mx	105	202	305	401
3	ACCENT	75	WDG	0.67 oz/a	POST	A	0.5018 g/mx	106	207	303	407
	ATRAZINE	4	L	1.5 qt/a	POST	A	37.5 ml/mx				
	COC			1.0 % v/v	POST	A	15.0 ml/mx				
	NO PROWL										
4	ACCENT	75	WDG	0.67 oz/a	POST	A	0.5018 g/mx	111	209	302	408
	ATRAZINE	4	L	1.5 qt/a	POST	A	37.5 ml/mx				
	COC			1.0 % v/v	POST	A	15.0 ml/mx				
	PROWL H2O	3.8	SC	1.0 qt/a	POST	A	25.0 ml/mx				
5	STEADFAST Q	37.7	WDG	1.5 oz/a	POST	A	1.123 g/mx	107	203	309	404
	ATRAZINE	4	L	1.5 qt/a	POST	A	37.5 ml/mx				
	COC			1.0 % v/v	POST	A	15.0 ml/mx				
	NO PROWL										
6	STEADFAST Q	37.7	WDG	1.5 oz/a	POST	A	1.123 g/mx	110	208	304	409
	ATRAZINE	4	L	1.5 qt/a	POST	A	37.5 ml/mx				
	COC			1.0 % v/v	POST	A	15.0 ml/mx				
	PROWL H2O	3.8	SC	1.0 qt/a	POST	A	25.0 ml/mx				
7	ROUNDUP W-MAX	5.5	SL	22.0 oz/a	POST	A	17.19 ml/mx	109	206	311	405
	ATRAZINE	4	L	1.5 qt/a	POST	A	37.5 ml/mx				
	NO PROWL										
8	ROUNDUP W-MAX	5.5	SL	22.0 oz/a	POST	A	17.19 ml/mx	103	201	307	411
	ATRAZINE	4	L	1.5 qt/a	POST	A	37.5 ml/mx				
	PROWL H2O	3.8	SC	1.0 qt/a	POST	A	25.0 ml/mx				
9	IGNITE 280 SL	2.34	SL	22.0 oz/a	POST	A	17.19 ml/mx	101	204	308	406
	ATRAZINE	4	L	1.5 qt/a	POST	A	37.5 ml/mx				
	AMS-XTRA	3.4	SL	2.5 % v/v	POST	A	37.5 ml/mx				
	NO PROWL										
10	IGNITE 280 SL	2.34	SL	22.0 oz/a	POST	A	17.19 ml/mx	104	210	301	410
	ATRAZINE	4	L	1.5 qt/a	POST	A	37.5 ml/mx				
	AMS-XTRA	3.4	SL	2.5 % v/v	POST	A	37.5 ml/mx				
	PROWL H2O	3.8	SC	1.0 qt/a	POST	A	25.0 ml/mx				
11								102	205	306	403

Sort Order: Treatment

Trial Comments

COC = PRIMARY

HARVEST MOISTURE: 18.13
 YIELDS ADJUSTED TO 15.5% MOISTURE

SUMMARY:

1) AT 9 DAT, THE FOLLOWING WERE OBSERVED:

A) NO SIGNIFICANT CORN INJURY FROM ANY TREATMENT.
 B) EXCELLENT PALMER AMARANTH CONTROL (100%) WITH ALL TREATMENTS. ADDITIONS OF PROWL DID NOT IMPROVE CONTROL.
 C) EXCELLENT CONTROL OF TEXAS MILLET (90+%) WITH ROUNDUP + ATRAZINE OR IGNITE + ATRAZINE. ADDITIONS OF PROWL DID NOT INCREASE CONTROL.

2) AT 24 DAT, THE FOLLOWING WERE OBSERVED:

A) CROP INJURY WAS LESS THAN 10% WITH ALL TREATMENTS.
 B) ALL TREATMENTS PROVIDED EXCELLENT CONTROL OF PALMER AMARANTH (100%). ADDITIONS OF PROWL DID NOT IMPROVE CONTROL.
 C) ACCENT + ATRAZINE OR STEADFAST Q + ATRAZINE PROVIDED 87-89% CONTROL OF TEXAS MILLET. ROUNDUP + ATRAZINE OF IGNITE + ATRAZINE PROVIDED 74-79% CONTROL. WHEN AVERAGED OVER TREATMENT, ADDITIONS OF PROWL IMPROVED THE

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CONTROL OF TEXAS MILLET BY 20%.

3) AT 92 DAT, THE FOLLOWING WERE OBSERVED:

A) ALL TREATMENTS PROVIDED EXCELLENT CONTROL OF PALMER AMARANTH (99%). ADDITIONS OF PROWL DID NOT IMPROVE CONTROL.
B) TEXAS MILLET CONTROL WAS IMPROVED WITH ADDITIONS OF PROWL. TREATMENTS THAT PROVIDED AT LEAST 80% CONTROL AT THIS TIME INCLUDED ACCENT + ATRAZINE + PROWL, STEADFAST Q + ATRAZINE + PROWL, AND IGNITE + ATRAZINE + PROWL.

4) CORN YIELDS:

A) NO INTERACTION BETWEEN TREATMENT AND PROWL.
B) WHEN AVERAGE OVER TREATMENT, PROWL HAD NO EFFECT ON YIELD ($P=0.4336$)
C) WHEN AVERAGED OVER PROWL, ALL TREATMENTS PROVIDED HIGHER YIELD THAN THE UNTREATED CHECK. GENERALLY, THERE WERE NO DIFFERENCES IN YIELD AMONG HERBICIDE TREATED PLOTS WITH THE FOLLOWING EXCEPTION: STEADFAST Q + ATRAZINE PRODUCED HIGHER YIELDS THAN ROUNDUP + ATRAZINE.

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Pest 1 Type: W	Code: AMAPA	Pest Description: Amaranthus palmeri
	Common Name: Palmer amaranth	
	Description: _____	
	Artificial Population: _____	Establishment Date: _____
	Establishment Rate, Unit: _____	
	Establishment Method/Description: _____	
Pest 2 Type: W	Code: PANTE	Pest Description: Panicum texanum
	Common Name: Texas panicum	
	Description: _____	
	Artificial Population: _____	Establishment Date: _____
	Establishment Rate, Unit: _____	
	Establishment Method/Description: _____	

Plot Width, 6		FT	Site Type: _____	
Unit: _____				
Plot Length, 25		FT	Experimental _____	
Unit: _____			Unit: _____	
Plot Area, 150		FT2	Tillage Type: _____	
Unit: _____				
Replications: 4			Study Design: FACTO Factorial	
			R	
% Slope: _____			Untreated _____	
Arrangement: _____				

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.	COTTON		2009

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Description	Rate	Rate Unit	Tank Mix

Comment:

Field Prep./Maintenance:

HERCULEX + PONCHO 250 SEED TREATMENT

Soil Description

Description Name: _____

% Sand: 86	% OM: 1.49	Texture: LS	loamy sand
% Silt: 6	pH: _____	Soil Name: _____	
% Clay: 8	CEC: _____	Fert. Level: _____	
		Soil Drainage: _____	

Analyzed By: _____

Additional Measured Elements

Element	Quantity	Unit

Moisture and Weather Conditions

Overall Moisture Conditions: _____

Closest Weather Station: _____ **Distance, Unit:** _____

No.	Date	Time	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit	Relative Humidity

Comment:

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Application Description

	A
Application Date:	Apr-19-10
Time of Day:	8:45 AM
Application Method:	BROADCAST
Application Timing:	POST
Application Placement:	FOLIAGE
Applied By:	EPP
Air Temperature, Unit:	65 F
% Relative Humidity:	76
Wind Velocity, Unit:	2 MPH
Wind Direction:	
Dew Presence (Y/N):	N no
Soil Temperature, Unit:	68 F
Soil Moisture:	OPTIMUM
% Cloud Cover:	
Next Rain Occurred On:	

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	ZEAMA BCOR
Stage Scale Used:	BBCH
Stage Majority, Percent:	V4
Stage Minimum, Percent:	
Stage Maximum, Percent:	
Diameter, Unit:	
Height, Unit:	7 IN
Height Minimum, Maximum:	
Plant Foliage Height, Unit:	
Crop coverage (%):	

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Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	AMAPA W
Stage Majority, Percent:	
Stage Minimum, Percent:	
Stage Maximum, Percent:	
Diameter, Unit:	
Height, Unit:	3 IN
Height Minimum, Maximum:	
Density, Unit:	
Coverage, Unit:	
Pest 2 Code, Type, Scale:	PANTE W
Stage Majority, Percent:	
Stage Minimum, Percent:	
Stage Maximum, Percent:	
Diameter, Unit:	
Height, Unit:	3 IN
Height Minimum, Maximum:	
Density, Unit:	
Coverage, Unit:	

Application Equipment

	A
Appl. Equipment:	BACKBACK
Equipment Type:	BACCAI
Operating Pressure, Unit:	40 PSI
Nozzle Type:	FLAT FAN
Nozzle Size:	11002DG
Nozzle Spacing, Unit:	20 IN
Nozzles/Row:	
Nozzle Calibration, Unit:	
Band Width, Unit:	
% Coverage:	
Row Sides Applied:	
Boom ID:	
Boom Length, Unit:	60 IN
Boom Height, Unit:	16 IN
Ground Speed, Unit:	3.5 MPH
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	WATER
Water Hardness (ppm CaCO3):	
Spray Volume, Unit:	15 gal/ac
Mix Size, Unit:	1.5 liters
Spray pH:	
Propellant:	CO2
Tank Mix (Y/N):	

Equipment Comment:

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Pest Type							W Weed	W Weed
Pest Code							AMAPA	PANTE
Pest Scientific Name							Amaranthus palmeri	Panicum texanum
Pest Name							Palmer amaranth	Texas panicum
Crop Code						ZEAMA	ZEAMA	ZEAMA
BBCH Scale						BCOR	BCOR	BCOR
Crop Scientific Name						Zea mays amylacea	Zea mays amylacea	Zea mays amylacea
Crop Name						Flour corn	Flour corn	Flour corn
Crop Variety								
Description							CONTROL	CONTROL
Part Rated								
Rating Date						INJURY -	Apr-28-10	Apr-28-10
Rating Type						Apr-28-10		
Rating Unit								
Number of Subsamples						1	1	1
Days After First/Last Applic.						9 9	9 9	9 9
Trt-Eval Interval						9 DA-A	9 DA-A	9 DA-A
Plant-Eval Interval						28 DP-1	28 DP-1	28 DP-1
ARM Action Codes								
Number of Decimals								
Trt Treatment	Form Form	Rate	Growth	Appl				
No. Type Name	Conc Type	Rate Unit	Stage	Code	1	2	3	
TABLE OF R MEANS								
Replicate 1					0.0	80.0	63.5	
Replicate 2					2.0	80.0	62.5	
Replicate 3					1.0	80.0	63.8	
Replicate 4					5.0	80.0	65.0	
TABLE OF A MEANS								
1 CHK UNTREATED					0.0	0.0	0.0	
2	ACCENT	75 WDG	0.67 oz/a	POST A	2.5	100.0	68.8	
2	ATRAZINE	4 L	1.5 qt/a	POST A				
2	COC		1.0 % v/v	POST A				
3	STEADFAST Q	37.7 WDG	1.5 oz/a	POST A	1.3	100.0	68.1	
3	ATRAZINE	4 L	1.5 qt/a	POST A				
3	COC		1.0 % v/v	POST A				
4	ROUNDUP W-MAX	5.5 SL	22.0 oz/a	POST A	1.3	100.0	91.9	
4	ATRAZINE	4 L	1.5 qt/a	POST A				
5	IGNITE 280 SL	2.34 SL	22.0 oz/a	POST A	5.0	100.0	89.8	
5	ATRAZINE	4 L	1.5 qt/a	POST A				
5	AMS-XTRA	3.4 SL	2.5 % v/v	POST A				
TABLE OF B MEANS								
1	NO PROWL				2.0	80.0	62.3	
2	PROWL H2O	3.8 SC	1.0 qt/a	POST A	2.0	80.0	65.2	
TABLE OF AB MEANS								
1 CHK UNTREATED					0.0	0.0	0.0	
1	NO PROWL							
2	ACCENT	75 WDG	0.67 oz/a	POST A	2.5	100.0	67.5	
2	ATRAZINE	4 L	1.5 qt/a	POST A				
2	COC		1.0 % v/v	POST A				
1	NO PROWL							
3	STEADFAST Q	37.7 WDG	1.5 oz/a	POST A	0.0	100.0	68.8	
3	ATRAZINE	4 L	1.5 qt/a	POST A				
3	COC		1.0 % v/v	POST A				
1	NO PROWL							
4	ROUNDUP W-MAX	5.5 SL	22.0 oz/a	POST A	2.5	100.0	88.8	
4	ATRAZINE	4 L	1.5 qt/a	POST A				
1	NO PROWL							

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Pest Type							W Weed	W Weed
Pest Code							AMAPA	PANTE
Pest Scientific Name							Amaranthus palmeri	Panicum texanum
Pest Name							Palmer amaranth	Texas panicum
Crop Code						ZEAMA	ZEAMA	ZEAMA
BBCH Scale						BCOR	BCOR	BCOR
Crop Scientific Name						Zea mays amylacea	Zea mays amylacea	Zea mays amylacea
Crop Name						Flour corn	Flour corn	Flour corn
Crop Variety								
Description							CONTROL	CONTROL
Part Rated								
Rating Date						INJURY -	Apr-28-10	Apr-28-10
Rating Type						Apr-28-10		
Rating Unit								
Number of Subsamples						1	1	1
Days After First/Last Applic.						9 9	9 9	9 9
Trt-Eval Interval						9 DA-A	9 DA-A	9 DA-A
Plant-Eval Interval						28 DP-1	28 DP-1	28 DP-1
ARM Action Codes								
Number of Decimals								
Trt No.	Treatment Type Name	Form Conc	Form Type	Rate Rate Unit	Growth Stage	Appl Code	1	2
5	IGNITE 280 SL	2.34	SL	22.0 oz/a	POST	A	5.0	100.0
5	ATRAZINE	4	L	1.5 qt/a	POST	A		86.3
5	AMS-XTRA	3.4	SL	2.5 % v/v	POST	A		
1	NO PROWL							
1	CHK UNTREATED						0.0	0.0
2	PROWL H20	3.8	SC	1.0 qt/a	POST	A		0.0
2	ACCENT	75	WDG	0.67 oz/a	POST	A	2.5	100.0
2	ATRAZINE	4	L	1.5 qt/a	POST	A		70.0
2	COC			1.0 % v/v	POST	A		
2	PROWL H20	3.8	SC	1.0 qt/a	POST	A		
3	STEADFAST Q	37.7	WDG	1.5 oz/a	POST	A	2.5	100.0
3	ATRAZINE	4	L	1.5 qt/a	POST	A		67.5
3	COC			1.0 % v/v	POST	A		
2	PROWL H20	3.8	SC	1.0 qt/a	POST	A		
4	ROUNDUP W-MAX	5.5	SL	22.0 oz/a	POST	A	0.0	100.0
4	ATRAZINE	4	L	1.5 qt/a	POST	A		95.0
2	PROWL H20	3.8	SC	1.0 qt/a	POST	A		
5	IGNITE 280 SL	2.34	SL	22.0 oz/a	POST	A	5.0	100.0
5	ATRAZINE	4	L	1.5 qt/a	POST	A		93.3
5	AMS-XTRA	3.4	SL	2.5 % v/v	POST	A		
2	PROWL H20	3.8	SC	1.0 qt/a	POST	A		

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Pest Type							W Weed	W Weed
Pest Code							AMAPA	PANTE
Pest Scientific Name							Amaranthus palmeri	Panicum texanum
Pest Name							Palmer amaranth	Texas panicum
Crop Code							ZEAMA	ZEAMA
BBCH Scale							BCOR	BCOR
Crop Scientific Name							Zea mays amylacea	Zea mays amylacea
Crop Name							Flour corn	Flour corn
Crop Variety								
Description							STUNT	CONTROL
Part Rated								
Rating Date							May-13-10	May-13-10
Rating Type								
Rating Unit								
Number of Subsamples							1	1
Days After First/Last Applic.							24 24	24 24
Trt-Eval Interval							24 DA-A	24 DA-A
Plant-Eval Interval							43 DP-1	43 DP-1
ARM Action Codes								
Number of Decimals								
Trt No.	Treatment Type Name	Form Conc	Form Type	Rate Rate Unit	Growth Stage	Appl Code	4	5
5	IGNITE 280 SL	2.34	SL	22.0 oz/a	POST	A	5.0	100.0
5	ATRAZINE	4	L	1.5 qt/a	POST	A		66.3
5	AMS-XTRA	3.4	SL	2.5 % v/v	POST	A		
1	NO PROWL							
1	CHK UNTREATED						0.0	65.0
2	PROWL H2O	3.8	SC	1.0 qt/a	POST	A		20.0
2	ACCENT	75	WDG	0.67 oz/a	POST	A	12.5	100.0
2	ATRAZINE	4	L	1.5 qt/a	POST	A		95.0
2	COC			1.0 % v/v	POST	A		
2	PROWL H2O	3.8	SC	1.0 qt/a	POST	A		
3	STEADFAST Q	37.7	WDG	1.5 oz/a	POST	A	10.0	100.0
3	ATRAZINE	4	L	1.5 qt/a	POST	A		94.8
3	COC			1.0 % v/v	POST	A		
2	PROWL H2O	3.8	SC	1.0 qt/a	POST	A		
4	ROUNDUP W-MAX	5.5	SL	22.0 oz/a	POST	A	0.0	100.0
4	ATRAZINE	4	L	1.5 qt/a	POST	A		85.0
2	PROWL H2O	3.8	SC	1.0 qt/a	POST	A		
5	IGNITE 280 SL	2.34	SL	22.0 oz/a	POST	A	10.0	100.0
5	ATRAZINE	4	L	1.5 qt/a	POST	A		91.3
5	AMS-XTRA	3.4	SL	2.5 % v/v	POST	A		
2	PROWL H2O	3.8	SC	1.0 qt/a	POST	A		

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Pest Type	W Weed	W Weed	
Pest Code	AMAPA	PANTE	
Pest Scientific Name	Amaranthus palmeri	Panicum texanum	
Pest Name	Palmer amaranth	Texas panicum	
Crop Code	ZEAMA	ZEAMA	ZEAMA
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays amylacea	Zea mays amylacea	Zea mays amylacea
Crop Name	Flour corn	Flour corn	Flour corn
Crop Variety			yield
Description	CONTROL	CONTROL	LBS/PLOT
Part Rated			
Rating Date	Jul-20-10	Jul-20-10	Aug-11-10
Rating Type			
Rating Unit			
Number of Subsamples	1	1	1
Days After First/Last Applic.	92 92	92 92	114 114
Trt-Eval Interval	92 DA-A	92 DA-A	114 DA-A
Plant-Eval Interval	111 DP-1	111 DP-1	133 DP-1
ARM Action Codes			
Number of Decimals			2
Trt Treatment			
No. Type Name	Form Form	Rate Growth Appl	
	Conc Type Rate Unit Stage Code		
	7	8	9
TABLE OF R MEANS			
Replicate 1	89.1	64.5	27.64
Replicate 2	89.1	49.0	24.32
Replicate 3	89.1	49.5	21.91
Replicate 4	88.3	48.5	18.90
TABLE OF A MEANS			
1 CHK UNTREATED	49.5	0.0	16.56
2 ACCENT	75 WDG	0.67 oz/a	POST A
2 ATRAZINE	4 L	1.5 qt/a	POST A
2 COC		1.0 % v/v	POST A
3 STEADFAST Q	37.7 WDG	1.5 oz/a	POST A
3 ATRAZINE	4 L	1.5 qt/a	POST A
3 COC		1.0 % v/v	POST A
4 ROUNDUP W-MAX	5.5 SL	22.0 oz/a	POST A
4 ATRAZINE	4 L	1.5 qt/a	POST A
5 IGNITE 280 SL	2.34 SL	22.0 oz/a	POST A
5 ATRAZINE	4 L	1.5 qt/a	POST A
5 AMS-XTRA	3.4 SL	2.5 % v/v	POST A
TABLE OF B MEANS			
1 NO PROWL	79.0	42.8	23.51
2 PROWL H2O	3.8 SC	1.0 qt/a	POST A
	98.8	63.0	22.88
TABLE OF AB MEANS			
1 CHK UNTREATED	0.0	0.0	16.99
1 NO PROWL			
2 ACCENT	75 WDG	0.67 oz/a	POST A
2 ATRAZINE	4 L	1.5 qt/a	POST A
2 COC		1.0 % v/v	POST A
1 NO PROWL			
3 STEADFAST Q	37.7 WDG	1.5 oz/a	POST A
3 ATRAZINE	4 L	1.5 qt/a	POST A
3 COC		1.0 % v/v	POST A
1 NO PROWL			
4 ROUNDUP W-MAX	5.5 SL	22.0 oz/a	POST A
4 ATRAZINE	4 L	1.5 qt/a	POST A
1 NO PROWL			
	99.0	23.8	20.78

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Pest Type	W Weed	W Weed	
Pest Code	AMAPA	PANTE	
Pest Scientific Name	Amaranthus palmeri	Panicum texanum	
Pest Name	Palmer amaranth	Texas panicum	
Crop Code	ZEAMA	ZEAMA	ZEAMA
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays amylacea	Zea mays amylacea	Zea mays amylacea
Crop Name	Flour corn	Flour corn	Flour corn
Crop Variety			yield
Description	CONTROL	CONTROL	LBS/PLOT
Part Rated			
Rating Date	Jul-20-10	Jul-20-10	Aug-11-10
Rating Type			
Rating Unit			
Number of Subsamples	1	1	1
Days After First/Last Applic.	92 92	92 92	114 114
Trt-Eval Interval	92 DA-A	92 DA-A	114 DA-A
Plant-Eval Interval	111 DP-1	111 DP-1	133 DP-1
ARM Action Codes			
Number of Decimals			2
Trt No.	Treatment	Form Form	Rate Growth Appl
Type Name	Conc Type	Rate Unit	Stage Code
5	IGNITE 280 SL	2.34 SL	22.0 oz/a POST A
5	ATRAZINE	4 L	1.5 qt/a POST A
5	AMS-XTRA	3.4 SL	2.5 % v/v POST A
1	NO PROWL		
			98.0
			38.8
			23.51
1	CHK UNTREATED		
2	PROWL H2O	3.8 SC	1.0 qt/a POST A
			99.0
			0.0
			16.14
2	ACCENT	75 WDG	0.67 oz/a POST A
2	ATRAZINE	4 L	1.5 qt/a POST A
2	COC		1.0 % v/v POST A
2	PROWL H2O	3.8 SC	1.0 qt/a POST A
			99.0
			87.5
			27.14
3	STEADFAST Q	37.7 WDG	1.5 oz/a POST A
3	ATRAZINE	4 L	1.5 qt/a POST A
3	COC		1.0 % v/v POST A
2	PROWL H2O	3.8 SC	1.0 qt/a POST A
			98.0
			63.8
			23.41
4	ROUNDUP W-MAX	5.5 SL	22.0 oz/a POST A
4	ATRAZINE	4 L	1.5 qt/a POST A
2	PROWL H2O	3.8 SC	1.0 qt/a POST A
			99.0
			80.0
			25.45

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ADDING PROWL TO COMMON POST TREATMENTS IN FIELD CORN - II

Trial ID: CN-05-10 Protocol ID:
Location: ATTAPULGUS Study Director:
Project ID: Investigator: Eric P. Prostko
Sponsor Contact:

Pest Type							ZEAMA
Pest Code							BCOR
Pest Scientific Name							Zea mays amylacea
Pest Name							Flour corn
Crop Code							yield
BBCH Scale							BU/A
Crop Scientific Name							
Crop Name							
Crop Variety							
Description							
Part Rated							
Rating Date							Aug-11-10
Rating Type							YIELD
Rating Unit							BU
Number of Subsamples							1
Days After First/Last Applic.							114 114
Trt-Eval Interval							114 DA-A
Plant-Eval Interval							133 DP-1
ARM Action Codes							TY1
Number of Decimals							0
Trt Treatment No. Type Name	Form Form Conc Type	Rate Rate Unit Unit	Growth Appl Stage Code				10
TABLE OF R MEANS							
Replicate 1							139
Replicate 2							122
Replicate 3							110
Replicate 4							95
TABLE OF A MEANS							
1 CHK UNTREATED							83
2 ACCENT	75 WDG	0.67 oz/a	POST A				127
2 ATRAZINE	4 L	1.5 qt/a	POST A				
2 COC		1.0 % v/v	POST A				
3 STEADFAST Q	37.7 WDG	1.5 oz/a	POST A				138
3 ATRAZINE	4 L	1.5 qt/a	POST A				
3 COC		1.0 % v/v	POST A				
4 ROUNDUP W-MAX	5.5 SL	22.0 oz/a	POST A				111
4 ATRAZINE	4 L	1.5 qt/a	POST A				
5 IGNITE 280 SL	2.34 SL	22.0 oz/a	POST A				123
5 ATRAZINE	4 L	1.5 qt/a	POST A				
5 AMS-XTRA	3.4 SL	2.5 % v/v	POST A				
TABLE OF B MEANS							
1 NO PROWL							118
2 PROWL H2O	3.8 SC	1.0 qt/a	POST A				115
TABLE OF AB MEANS							
1 CHK UNTREATED							85
1 NO PROWL							
2 ACCENT	75 WDG	0.67 oz/a	POST A				142
2 ATRAZINE	4 L	1.5 qt/a	POST A				
2 COC		1.0 % v/v	POST A				
1 NO PROWL							
3 STEADFAST Q	37.7 WDG	1.5 oz/a	POST A				141
3 ATRAZINE	4 L	1.5 qt/a	POST A				
3 COC		1.0 % v/v	POST A				
1 NO PROWL							
4 ROUNDUP W-MAX	5.5 SL	22.0 oz/a	POST A				104
4 ATRAZINE	4 L	1.5 qt/a	POST A				
1 NO PROWL							

ADDING PROWL TO COMMON POST TREATMENTS IN FIELD CORN - II

Pest Type							ZEAMA BCOR Zea mays amylacea Flour corn yield BU/A Aug-11-10 YIELD BU 1 114 114 114 DA-A 133 DP-1 TY1 0
Pest Code							
Pest Scientific Name							
Pest Name							
Crop Code							
BBCH Scale							
Crop Scientific Name							
Crop Name							
Crop Variety							
Description							
Part Rated							
Rating Date							
Rating Type							
Rating Unit							
Number of Subsamples							
Days After First/Last Applic.							
Trt-Eval Interval							
Plant-Eval Interval							
ARM Action Codes							
Number of Decimals							
Trt No.	Treatment Type Name	Form Conc	Form Type	Rate Unit	Growth Stage	Appl Code	10
5	IGNITE 280 SL	2.34	SL	22.0 oz/a	POST	A	118
5	ATRAZINE	4	L	1.5 qt/a	POST	A	
5	AMS-XTRA	3.4	SL	2.5 % v/v	POST	A	
1	NO PROWL						
1	CHK UNTREATED						81
2	PROWL H2O	3.8	SC	1.0 qt/a	POST	A	
2	ACCENT	75	WDG	0.67 oz/a	POST	A	112
2	ATRAZINE	4	L	1.5 qt/a	POST	A	
2	COC			1.0 % v/v	POST	A	
2	PROWL H2O	3.8	SC	1.0 qt/a	POST	A	
3	STEADFAST Q	37.7	WDG	1.5 oz/a	POST	A	136
3	ATRAZINE	4	L	1.5 qt/a	POST	A	
3	COC			1.0 % v/v	POST	A	
2	PROWL H2O	3.8	SC	1.0 qt/a	POST	A	
4	ROUNDUP W-MAX	5.5	SL	22.0 oz/a	POST	A	118
4	ATRAZINE	4	L	1.5 qt/a	POST	A	
2	PROWL H2O	3.8	SC	1.0 qt/a	POST	A	
5	IGNITE 280 SL	2.34	SL	22.0 oz/a	POST	A	128
5	ATRAZINE	4	L	1.5 qt/a	POST	A	
5	AMS-XTRA	3.4	SL	2.5 % v/v	POST	A	
2	PROWL H2O	3.8	SC	1.0 qt/a	POST	A	

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ADDING PROWL TO COMMON POST TREATMENTS IN FIELD CORN - II

Trial ID: CN-05-10 Protocol ID:
 Location: ATTAPULGUS Study Director:
 Project ID: Investigator: Eric P. Prostko
 Sponsor Contact:

COMPLETE FACTORIAL AOV For ZEAMA BCOR Zea mays amylacea Flour corn INJURY Apr-28-10 1 9 9 9 DA-A 28 DP-1 (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	640.000000				
R	3	140.000000	46.666667	4.870	0.0193	2.5
A	4	115.000000	28.750000	1.865	0.1815	3.5
RA	12	185.000000	15.416667	1.609	0.2110	5.5
B	1	0.000000	0.000000	0.000	1.0000	3.3
RB	3	60.000000	20.000000	2.087	0.1555	3.5
AB	4	25.000000	6.250000	0.652	0.6363	3.9
RAB	12	115.000000	9.583333			

FACTORIAL/POOLED ERROR AOV For ZEAMA BCOR Zea mays amylacea Flour corn INJURY Apr-28-10 1 9 9 9 DA-A 28 DP-1 (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	640.000000				
R	3	140.000000	46.666667	3.500	0.0289	2.8
A	4	115.000000	28.750000	2.156	0.1012	3.1
B	1	0.000000	0.000000	0.000	1.0000	2.0
AB	4	25.000000	6.250000	0.469	0.7581	4.4
ERROR	27	360.000000	13.333333			

COMPLETE FACTORIAL AOV For W Weed AMAPA Amaranthus palmeri Palmer amaranth ZEAMA BCOR Zea mays amylacea Flour corn CONTROL Apr-28-10 1 9 9 9 DA-A 28 DP-1 (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	64000.000000				
R	3	0.000000	0.000000	0.000	1.0000	0.0
A	4	64000.000000	16000.000000	0.000	1.0000	0.0
RA	12	0.000000	0.000000	0.000	0.0000	0.0
B	1	0.000000	0.000000	0.000	1.0000	0.0
RB	3	0.000000	0.000000	0.000	0.0000	0.0
AB	4	0.000000	0.000000	0.000	0.0000	0.0
RAB	12	0.000000	0.000000			

FACTORIAL/POOLED ERROR AOV For W Weed AMAPA Amaranthus palmeri Palmer amaranth ZEAMA BCOR Zea mays amylacea Flour corn CONTROL Apr-28-10 1 9 9 9 DA-A 28 DP-1 (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	64000.000000				
R	3	0.000000	0.000000	0.000	1.0000	0.0
A	4	64000.000000	16000.000000	0.000	1.0000	0.0
B	1	0.000000	0.000000	0.000	1.0000	0.0
AB	4	0.000000	0.000000	0.000	0.0000	0.0
ERROR	27	0.000000	0.000000			

COMPLETE FACTORIAL AOV For W Weed PANTE Panicum texanum Texas panicum ZEAMA BCOR Zea mays amylacea Flour corn CONTROL Apr-28-10 1 9 9 9 DA-A 28 DP-1 (Data Column 3)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	45346.400000				
R	3	31.800000	10.600000	0.515	0.6796	3.6
A	4	44601.650000	11150.412500	700.733	0.0001	3.6
RA	12	190.950000	15.912500	0.773	0.6685	8.1
B	1	84.100000	84.100000	3.029	0.1802	3.9
RB	3	83.300000	27.766667	1.349	0.3049	5.1
AB	4	107.650000	26.912500	1.308	0.3219	5.7
RAB	12	246.950000	20.579167			

FACTORIAL/POOLED ERROR AOV For W Weed PANTE Panicum texanum Texas panicum ZEAMA BCOR Zea mays amylacea Flour corn CONTROL Apr-28-10 1 9 9 9 DA-A 28 DP-1 (Data Column 3)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	45346.400000				
R	3	31.800000	10.600000	0.549	0.6530	3.3
A	4	44601.650000	11150.412500	577.631	0.0001	3.7
B	1	84.100000	84.100000	4.357	0.0464	2.4
AB	4	107.650000	26.912500	1.394	0.2625	5.3
ERROR	27	521.200000	19.303704			

University of Georgia

ADDING PROWL TO COMMON POST TREATMENTS IN FIELD CORN - II

Trial ID: CN-05-10 Protocol ID:
 Location: ATTAPULGUS Study Director:
 Project ID: Investigator: Eric P. Prostko
 Sponsor Contact:

COMPLETE FACTORIAL AOV For ZEAMA BCOR Zea mays amylacea Flour corn STUNT May-13-10 1 24 24 24 DA-A 43 DP-1 (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	2000.000000				
R	3	220.000000	73.333333	2.750	0.0889	4.1
A	4	400.000000	100.000000	3.158	0.0545	5.0
RA	12	380.000000	31.666667	1.188	0.3854	9.2
B	1	90.000000	90.000000	0.818	0.4324	7.8
RB	3	330.000000	110.000000	4.125	0.0317	5.8
AB	4	260.000000	65.000000	2.438	0.1041	6.5
RAB	12	320.000000	26.666667			

FACTORIAL/POOLED ERROR AOV For ZEAMA BCOR Zea mays amylacea Flour corn STUNT May-13-10 1 24 24 24 DA-A 43 DP-1 (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	2000.000000				
R	3	220.000000	73.333333	1.922	0.1498	4.7
A	4	400.000000	100.000000	2.621	0.0569	5.3
B	1	90.000000	90.000000	2.359	0.1362	3.3
AB	4	260.000000	65.000000	1.704	0.1782	7.4
ERROR	27	1030.000000	38.148148			

COMPLETE FACTORIAL AOV For W Weed AMAPA Amaranthus palmeri Palmer amaranth ZEAMA BCOR Zea mays amylacea Flour corn CONTROL May-13-10 1 24 24 24 DA-A 43 DP-1 (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	38510.000000				
R	3	90.000000	30.000000	1.000	0.4262	4.4
A	4	29160.000000	7290.000000	243.000	0.0001	4.9
RA	12	360.000000	30.000000	1.000	0.5000	9.8
B	1	1690.000000	1690.000000	56.333	0.0049	4.1
RB	3	90.000000	30.000000	1.000	0.4262	6.2
AB	4	6760.000000	1690.000000	56.333	0.0001	6.9
RAB	12	360.000000	30.000000			

FACTORIAL/POOLED ERROR AOV For W Weed AMAPA Amaranthus palmeri Palmer amaranth ZEAMA BCOR Zea mays amylacea Flour corn CONTROL May-13-10 1 24 24 24 DA-A 43 DP-1 (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	38510.000000				
R	3	90.000000	30.000000	1.000	0.4079	4.2
A	4	29160.000000	7290.000000	243.000	0.0001	4.7
B	1	1690.000000	1690.000000	56.333	0.0001	2.9
AB	4	6760.000000	1690.000000	56.333	0.0001	6.6
ERROR	27	810.000000	30.000000			

COMPLETE FACTORIAL AOV For W Weed PANTE Panicum texanum Texas panicum ZEAMA BCOR Zea mays amylacea Flour corn CONTROL May-13-10 1 24 24 24 DA-A 43 DP-1 (Data Column 6)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	40085.100000				
R	3	461.700000	153.900000	1.943	0.1766	7.1
A	4	33972.350000	8493.087500	202.598	0.0001	5.8
RA	12	503.050000	41.920833	0.529	0.8579	15.9
B	1	3880.900000	3880.900000	88.403	0.0025	4.9
RB	3	131.700000	43.900000	0.554	0.6551	10.0
AB	4	184.850000	46.212500	0.583	0.6807	11.2
RAB	12	950.550000	79.212500			

FACTORIAL/POOLED ERROR AOV For W Weed PANTE Panicum texanum Texas panicum ZEAMA BCOR Zea mays amylacea Flour corn CONTROL May-13-10 1 24 24 24 DA-A 43 DP-1 (Data Column 6)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	40085.100000				
R	3	461.700000	153.900000	2.621	0.0711	5.8
A	4	33972.350000	8493.087500	144.650	0.0001	6.5
B	1	3880.900000	3880.900000	66.097	0.0001	4.1
AB	4	184.850000	46.212500	0.787	0.5437	9.2
ERROR	27	1585.300000	58.714815			

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ADDING PROWL TO COMMON POST TREATMENTS IN FIELD CORN - II

Trial ID: CN-05-10 Protocol ID:
 Location: ATTAPULGUS Study Director:
 Project ID: Investigator: Eric P. Prostko
 Sponsor Contact:

COMPLETE FACTORIAL AOV For W Weed AMAPA Amaranthus palmeri Palmer amaranth ZEAMA BCOR Zea mays amylacea Flour corn CONTROL Jul-20-10 1 92 92 92 DA-A 111 DP-1 (Data Column 7)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	35155.600000				
R	3	4.800000	1.600000	1.600	0.2411	0.8
A	4	15525.600000	3881.400000	6469.001	0.0001	0.7
RA	12	7.200000	0.600000	0.600	0.8057	1.8
B	1	3920.400000	3920.400000	0.000	1.0000	0.0
RB	3	0.000000	0.000000	0.000	1.0000	1.1
AB	4	15685.600000	3921.400000	3921.400	0.0001	1.3
RAB	12	12.000000	1.000000			

FACTORIAL/POOLED ERROR AOV For W Weed AMAPA Amaranthus palmeri Palmer amaranth ZEAMA BCOR Zea mays amylacea Flour corn CONTROL Jul-20-10 1 92 92 92 DA-A 111 DP-1 (Data Column 7)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	35155.600000				
R	3	4.800000	1.600000	2.250	0.1053	0.6
A	4	15525.600000	3881.400000	5458.219	0.0001	0.7
B	1	3920.400000	3920.400000	5513.063	0.0001	0.5
AB	4	15685.600000	3921.400000	5514.469	0.0001	1.0
ERROR	27	19.200000	0.711111			

COMPLETE FACTORIAL AOV For W Weed PANTE Panicum texanum Texas panicum ZEAMA BCOR Zea mays amylacea Flour corn CONTROL Jul-20-10 1 92 92 92 DA-A 111 DP-1 (Data Column 8)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	52144.375000				
R	3	1806.875000	602.291667	3.291	0.0581	10.8
A	4	35691.250000	8922.812500	23.359	0.0001	17.4
RA	12	4583.750000	381.979167	2.087	0.1085	24.1
B	1	4100.625000	4100.625000	15.246	0.0298	12.2
RB	3	806.875000	268.958333	1.470	0.2722	15.2
AB	4	2958.750000	739.687500	4.042	0.0266	17.0
RAB	12	2196.250000	183.020833			

FACTORIAL/POOLED ERROR AOV For W Weed PANTE Panicum texanum Texas panicum ZEAMA BCOR Zea mays amylacea Flour corn CONTROL Jul-20-10 1 92 92 92 DA-A 111 DP-1 (Data Column 8)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	52144.375000				
R	3	1806.875000	602.291667	2.143	0.1180	12.8
A	4	35691.250000	8922.812500	31.754	0.0001	14.3
B	1	4100.625000	4100.625000	14.593	0.0007	9.0
AB	4	2958.750000	739.687500	2.632	0.0562	20.2
ERROR	27	7586.875000	280.995370			

COMPLETE FACTORIAL AOV For ZEAMA BCOR Zea mays amylacea Flour corn yield LBS/PLOT Aug-11-10 1 114 114 114 DA-A 133 DP-1 2 (Data Column 9)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	1639.379400				
R	3	411.106139	137.035380	7.330	0.0047	3.45
A	4	561.447906	140.361976	5.083	0.0125	4.68
RA	12	331.346616	27.612218	1.477	0.2548	7.71
B	1	3.937593	3.937593	0.813	0.4336	1.64
RB	3	14.522681	4.840894	0.259	0.8536	4.87
AB	4	92.673340	23.168335	1.239	0.3459	5.45
RAB	12	224.345126	18.695427			

FACTORIAL/POOLED ERROR AOV For ZEAMA BCOR Zea mays amylacea Flour corn yield LBS/PLOT Aug-11-10 1 114 114 114 DA-A 133 DP-1 2 (Data Column 9)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	1639.379400				
R	3	411.106139	137.035380	6.489	0.0019	3.50
A	4	561.447906	140.361976	6.646	0.0007	3.91
B	1	3.937593	3.937593	0.186	0.6693	2.47
AB	4	92.673340	23.168335	1.097	0.3781	5.53
ERROR	27	570.214423	21.119053			

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ADDING PROWL TO COMMON POST TREATMENTS IN FIELD CORN - II

Trial ID: CN-05-10 Protocol ID:
 Location: ATTAPULGUS Study Director:
 Project ID: Investigator: Eric P. Prostko
 Sponsor Contact:

COMPLETE FACTORIAL AOV For ZEAMA BCOR Zea mays amylacea Flour corn yield BU/A Aug-11-10 YIELD BU 1 114 114 114 DA-A 133 DP-1 TY1 0 (Data Column 10)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	41384.036528				
R	3	10377.849281	3459.283094	7.330	0.0047	17
A	4	14173.033649	3543.258412	5.083	0.0125	24
RA	12	8364.425407	697.035451	1.477	0.2548	39
B	1	99.398110	99.398110	0.813	0.4336	8
RB	3	366.608126	122.202709	0.259	0.8536	24
AB	4	2339.415885	584.853971	1.239	0.3459	27
RAB	12	5663.306069	471.942172			

FACTORIAL/POOLED ERROR AOV For ZEAMA BCOR Zea mays amylacea Flour corn yield BU/A Aug-11-10 YIELD BU 1 114 114 114 DA-A 133 DP-1 TY1 0 (Data Column 10)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	41384.036528				
R	3	10377.849281	3459.283094	6.489	0.0019	18
A	4	14173.033649	3543.258412	6.646	0.0007	20
B	1	99.398110	99.398110	0.186	0.6693	12
AB	4	2339.415885	584.853971	1.097	0.3781	28
ERROR	27	14394.339603	533.123689			

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

AMAPA, Amaranthus palmeri, = US

PANTE, Panicum texanum, = US

Crop Code

ZEAMA, BCOR, Zea mays amylacea, = US

Rating Type

YIELD = yield

Rating Unit

BU = bushel

Plant-Eval Interval

28 DP-1 = 1 Mar-31-10

43 DP-1 = 1 Mar-31-10

111 DP-1 = 1 Mar-31-10

133 DP-1 = 1 Mar-31-10

ARM Action Codes

TY1 = 5.024313*9