

University of Georgia

ADDING PROWL TO COMMON POST TREATMENTS IN FIELD CORN - I

Trial ID: CN-04-10 Protocol ID:
 Location: PONDER FARM 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 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 ATRAZINE COC NO PROWL	75 4 L	WDG	0.67 oz/a 1.5 qt/a 1.0 % v/v	POST POST POST	A A A	0.5018 g/mx 37.5 ml/mx 15.0 ml/mx	106	207	303	407
4	ACCENT ATRAZINE COC PROWL H2O	75 4 L 3.8	WDG L SC	0.67 oz/a 1.5 qt/a 1.0 % v/v 1.0 qt/a	POST POST POST POST	A A A A	0.5018 g/mx 37.5 ml/mx 15.0 ml/mx 25.0 ml/mx	111	209	302	408
5	STEADFAST Q ATRAZINE COC NO PROWL	37.7 4 L	WDG L	1.5 oz/a 1.5 qt/a 1.0 % v/v	POST POST POST	A A A	1.123 g/mx 37.5 ml/mx 15.0 ml/mx	107	203	309	404
6	STEADFAST Q ATRAZINE COC PROWL H2O	37.7 4 L 3.8	WDG L SC	1.5 oz/a 1.5 qt/a 1.0 % v/v 1.0 qt/a	POST POST POST POST	A A A A	1.123 g/mx 37.5 ml/mx 15.0 ml/mx 25.0 ml/mx	110	208	304	409
7	ROUNDUP W-MAX ATRAZINE NO PROWL	5.5 4 L	SL L	22.0 oz/a 1.5 qt/a	POST POST	A A	17.19 ml/mx 37.5 ml/mx	109	206	311	405
8	ROUNDUP W-MAX ATRAZINE PROWL H2O	5.5 4 L 3.8	SL L SC	22.0 oz/a 1.5 qt/a 1.0 qt/a	POST POST POST	A A A	17.19 ml/mx 37.5 ml/mx 25.0 ml/mx	103	201	307	411
9	IGNITE 280 SL ATRAZINE AMS-XTRA NO PROWL	2.34 4 L 3.4	SL L SL	22.0 oz/a 1.5 qt/a 2.5 % v/v	POST POST POST	A A A	17.19 ml/mx 37.5 ml/mx 37.5 ml/mx	101	204	308	406
10	IGNITE 280 SL ATRAZINE AMS-XTRA PROWL H2O	2.34 4 L 3.4 3.8	SL L SL SC	22.0 oz/a 1.5 qt/a 2.5 % v/v 1.0 qt/a	POST POST POST POST	A A A A	17.19 ml/mx 37.5 ml/mx 37.5 ml/mx 25.0 ml/mx	104	210	301	410
11								102	205	306	403

Sort Order: Treatment

Trial Comments

COC = PRIMARY
 GRASS = CRABGRASS + TEXAS PANICUM

HARVEST MOISTURE: 19.1%
 YIELDS ADJUSTED TO 15.5%

SUMMARY:

1) ON APRIL 26 (14 DAT), THE FOLLOWING OBSERVATIONS WERE MADE:

A) NO SIGNIFICANT INJURY WAS OBSERVED FROM ANY TREATMENT. ADDITIONS OF PROWL DID NOT INCREASE CROP RESPONSE.

B) ALL TREATMENTS, EXCEPT PROWL ALONE, PROVIDED EXCELLENT CONTROL (100%) OF PALMER AMARANTH. ADDITIONS OF PROWL TO OTHER TREATMENTS DID NOT IMPROVE CONTROL AT THIS TIME.

C) ALL TREATMENTS, EXCEPT PROWL ALONE, PROVIDED GOOD TO EXCELLENT CONTROL OF ANNUAL GRASSES (86-95%) ADDITIONS OF PROWL TO OTHER TREATMENTS IMPROVED CONTROL AT THIS TIME.

2) ON MAY 11 (29 DAT), THE FOLLOWING OBSERVATIONS WERE MADE:

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A) NO SIGNIFICANT INJURY WAS OBSERVED FROM ANY TREATMENT. ADDITIONS OF PROWL DID NOT INCREASE CROP RESPONSE.

B) ALL TREATMENTS, EXCEPT PROWL ALONE, PROVIDED EXCELLENT CONTROL (99%) OF PALMER AMARANTH. ADDITIONS OF PROWL TO OTHER TREATMENTS DID NOT IMPROVE CONTROL AT THIS TIME.

C) ALL TREATMENTS, EXCEPT PROWL ALONE, PROVIDED GOOD TO EXCELLENT CONTROL OF ANNUAL GRASSES (82-93%) ADDITIONS OF PROWL TO OTHER TREATMENTS IMPROVED CONTROL AT THIS TIME.

3) ON JUNE 4 (53 DAT), THE FOLLOWING OBSERVATIONS WERE MADE:

A) ALL TREATMENTS, EXCEPT PROWL ALONE, PROVIDED EXCELLENT CONTROL (99%) OF PALMER AMARANTH. ADDITIONS OF PROWL TO OTHER TREATMENTS DID NOT IMPROVE CONTROL AT THIS TIME.

B) ADDITIONS OF PROWL IMPROVED THE CONTROL OF ANNUAL GRASSES WITH ALL TREATMENTS EXCEPT STEADFAST Q + ATRAZINE.

4) CORN YIELD DATA:

A) NO INTERACTION BETWEEN POST TREATMENT AND PROWL.

B) WHEN AVERAGED OVER PROWL, ALL TREATMENTS PRODUCED IN HIGHER YIELDS THAN THE NON-TREATED CHECK PLOTS. HOWEVER, THERE WAS NO DIFFERENCE IN YIELD BETWEEN TREATMENTS.

C) WHEN AVERAGED OVER POST TREATMENT, PROWL HAD NO EFFECT ON CORN YIELD.

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Crop 1: ZEAMX Zea mays	Crop Description Corn
Variety: PIONEER 33M57	Description: _____
BBCH Scale: BCOR	Planting Date: Mar-25-10
Planting Method: MONOSE	Rate, Unit: 23232 S/A
Depth, Unit: 2 IN	Perennial Age, Unit: _____
Row Spacing, Unit: 36	Spacing Within Row, Unit: _____
Seed Bed: _____	Soil Temperature, Unit: _____
Soil Moisture: OPT	Emergence Date: _____
Harvest Date: _____	Harvest Equipment: _____
Harvested Width, Unit: 6 FT	Harvested Length, Unit: 25 FT
% Standard Moisture: _____	Moisture Meter: _____
Weighing Equipment: _____	

Pest 1 Type: W	Code: AMAPA Amaranthus palmeri
	Common Name: Palmer amaranth
	Description: _____
	Artificial Population: _____
	Establishment Date: _____
	Establishment Rate, Unit: _____
	Establishment Method/Description: _____
Pest 2 Type: W	Code: GRASS
	Common Name: TEXAS MILLET + CRABGRASS
	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:
 HERCULEX + PONCHO 250 SEED TREATMENT

	Previous Crops	Previous Pesticides	Year
1.	PEANUT		2009

Maintenance

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

Comment:

Field Prep./Maintenance:

Description Name: _____	Soil Description
% Sand: 94	% OM: 1.45 Texture: S sand
% Silt: 2	pH: 6.0 Soil Name: _____
% Clay: 4	CEC: _____ Fert. Level: G good
	Soil Drainage: E excellent
Analyzed By: _____	

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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:

Application Description

	A
Application Date:	Apr-12-10
Time of Day:	8:44 AM
Application Method:	BROADCAST
Application Timing:	POST
Application Placement:	FOLIAGE
Applied By:	EPP
Air Temperature, Unit:	64 F
% Relative Humidity:	59
Wind Velocity, Unit:	0 MPH
Wind Direction:	--
Dew Presence (Y/N):	Y yes
Soil Temperature, Unit:	59 F
Soil Moisture:	OPTIMAL
% Cloud Cover:	0
Next Rain Occurred On:	

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	ZEAMX BCOR
Stage Scale Used:	BBCH
Stage Majority, Percent:	V2-V3 100
Stage Minimum, Percent:	
Stage Maximum, Percent:	
Diameter, Unit:	
Height, Unit:	4
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:	2-3 LF 100
Stage Minimum, Percent:	
Stage Maximum, Percent:	
Diameter, Unit:	
Height, Unit:	
Height Minimum, Maximum:	
Density, Unit:	
Coverage, Unit:	
Pest 2 Code, Type, Scale:	GRASS W
Stage Majority, Percent:	2-3 LF 100
Stage Minimum, Percent:	
Stage Maximum, Percent:	
Diameter, Unit:	
Height, Unit:	
Height Minimum, Maximum:	
Density, Unit:	
Coverage, Unit:	

Application Equipment

	A
Appl. Equipment:	BACKPACK
Equipment Type:	
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 GPA
Mix Size, Unit:	1.5 liters
Spray pH:	
Propellant:	COMCO2
Tank Mix (Y/N):	

Equipment Comment:

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Pest Type Pest Code Pest Scientific Name Pest Name Crop Code BBCH Scale Crop Scientific Name Crop Name 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								W Weed AMAPA Amaranthus palmeri Palmer amaranth	W Weed GRASS Grangea sp. Grangea sp.	ZEAMD BCOR Zea mays indentata Dent corn Apr-26-10 STUNT
							1	1	1	1
							14 14	14 14	14 14	29 29
							14 DA-A	14 DA-A	14 DA-A	29 DA-A
							32 DP-1	32 DP-1	32 DP-1	47 DP-1
Trt	Treatment	Form	Form	Rate	Growth	Appl				
No.	Type Name	Conc	Type	Rate Unit	Stage	Code	1	2	3	4
5	IGNITE 280 SL	2.34	SL	22.0 oz/a	POST	A	5.0	100.0	90.5	2.5
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						0.0	36.3	43.8	2.5
2	PROWL H20	3.8	SC	1.0 qt/a	POST	A				
2	ACCENT	75	WDG	0.67 oz/a	POST	A	2.5	100.0	91.5	10.0
2	ATRAZINE	4	L	1.5 qt/a	POST	A				
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	95.3	5.0
3	ATRAZINE	4	L	1.5 qt/a	POST	A				
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	5.0	100.0	91.8	2.5
4	ATRAZINE	4	L	1.5 qt/a	POST	A				
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	2.5	100.0	98.5	2.5
5	ATRAZINE	4	L	1.5 qt/a	POST	A				
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	W Weed	W Weed
Pest Code	AMAPA	GRASS	AMAPA	GRASS
Pest Scientific Name	Amaranthus palmeri	Grangea sp.	Amaranthus palmeri	Grangea sp.
Pest Name	Palmer amaranth	Grangea sp.	Palmer amaranth	Grangea sp.
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	May-11-10	May-11-10	Jun-4-10	Jun-4-10
Rating Type	CONTROL		CONTROL	
Rating Unit				
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	29 29	29 29	53 53	53 53
Trt-Eval Interval	29 DA-A	29 DA-A	53 DA-A	53 DA-A
Plant-Eval Interval	47 DP-1	47 DP-1	71 DP-1	71 DP-1
ARM Action Codes				
Number of Decimals				
Trt Treatment	Form Form	Rate Growth	Appl	
No. Type Name	Conc Type Rate Unit Stage Code			
	5	6	7	8
TABLE OF R MEANS				
Replicate 1	87.7	79.9	87.7	71.0
Replicate 2	79.2	72.2	84.2	70.5
Replicate 3	88.7	78.8	86.8	64.5
Replicate 4	84.2	69.1	85.7	48.5
TABLE OF A MEANS				
1 CHK UNTREATED	28.8	20.0	35.6	25.6
2 ACCENT	75 WDG 0.67 oz/a POST A	99.0	89.8	99.0
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	99.0	93.4	99.0
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	99.0	81.6	97.9
4 ATRAZINE	4 L 1.5 qt/a POST A			
5 IGNITE 280 SL	2.34 SL 22.0 oz/a POST A	99.0	90.3	99.0
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	79.2	65.7	78.8	48.0
2 PROWL H20	3.8 SC 1.0 qt/a POST A	90.7	84.3	93.5
TABLE OF AB MEANS				
1 CHK UNTREATED	0.0	0.0	0.0	0.0
1 NO PROWL				
2 ACCENT	75 WDG 0.67 oz/a POST A	99.0	83.8	99.0
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	99.0	89.8	99.0
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	99.0	71.3	96.8
4 ATRAZINE	4 L 1.5 qt/a POST A			
1 NO PROWL				

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Pest Type	W Weed	W Weed	W Weed	W Weed						
Pest Code	AMAPA	GRASS	AMAPA	GRASS						
Pest Scientific Name	Amaranthus palmeri	Grangea sp.	Amaranthus palmeri	Grangea sp.						
Pest Name	Palmer amaranth	Grangea sp.	Palmer amaranth	Grangea sp.						
Crop Code										
BBCH Scale										
Crop Scientific Name										
Crop Name										
Rating Date	May-11-10	May-11-10	Jun-4-10	Jun-4-10						
Rating Type	CONTROL		CONTROL							
Rating Unit										
Number of Subsamples	1	1	1	1						
Days After First/Last Applic.	29 29	29 29	53 53	53 53						
Trt-Eval Interval	29 DA-A	29 DA-A	53 DA-A	53 DA-A						
Plant-Eval Interval	47 DP-1	47 DP-1	71 DP-1	71 DP-1						
ARM Action Codes										
Number of Decimals										
Trt No.	Treatment Type Name	Form Conc	Form Type	Rate Rate Unit	Growth Stage	Appl Code	5	6	7	8
5	IGNITE 280 SL	2.34	SL	22.0 oz/a	POST	A	99.0	83.8	99.0	58.8
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						57.5	40.0	71.3	51.3
2	PROWL H20	3.8	SC	1.0 qt/a	POST	A				
2	ACCENT	75	WDG	0.67 oz/a	POST	A	99.0	95.8	99.0	85.0
2	ATRAZINE	4	L	1.5 qt/a	POST	A				
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	99.0	97.0	99.0	92.5
3	ATRAZINE	4	L	1.5 qt/a	POST	A				
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	99.0	92.0	99.0	76.3
4	ATRAZINE	4	L	1.5 qt/a	POST	A				
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	99.0	96.8	99.0	91.3
5	ATRAZINE	4	L	1.5 qt/a	POST	A				
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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[illegible]

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COMPLETE FACTORIAL AOV For ZEAMD BCOR Zea mays indentata Dent corn Apr-26-10 STUNT 1 14 14 14 DA-A 32 DP-1 (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	937.500000				
R	3	27.500000	9.166667	0.440	0.7286	3.6
A	4	150.000000	37.500000	1.452	0.2770	4.5
RA	12	310.000000	25.833333	1.240	0.3577	8.1
B	1	62.500000	62.500000	2.143	0.2394	4.0
RB	3	87.500000	29.166667	1.400	0.2906	5.1
AB	4	50.000000	12.500000	0.600	0.6698	5.8
RAB	12	250.000000	20.833333			

FACTORIAL/POOLED ERROR AOV For ZEAMD BCOR Zea mays indentata Dent corn Apr-26-10 STUNT 1 14 14 14 DA-A 32 DP-1 (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	937.500000				
R	3	27.500000	9.166667	0.382	0.7666	3.7
A	4	150.000000	37.500000	1.564	0.2125	4.2
B	1	62.500000	62.500000	2.606	0.1181	2.6
AB	4	50.000000	12.500000	0.521	0.7209	5.9
ERROR	27	647.500000	23.981481			

COMPLETE FACTORIAL AOV For W Weed AMAPA Amaranthus palmeri Palmer amaranth Apr-26-10 CONTROL 1 14 14 14 DA-A 32 DP-1 (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	51799.375000				
R	3	626.875000	208.958333	1.000	0.4262	11.5
A	4	42902.500000	10725.625000	51.329	0.0001	12.9
RA	12	2507.500000	208.958333	1.000	0.5000	25.8
B	1	525.625000	525.625000	2.515	0.2109	10.8
RB	3	626.875000	208.958333	1.000	0.4262	16.3
AB	4	2102.500000	525.625000	2.515	0.0968	18.2
RAB	12	2507.500000	208.958333			

FACTORIAL/POOLED ERROR AOV For W Weed AMAPA Amaranthus palmeri Palmer amaranth Apr-26-10 CONTROL 1 14 14 14 DA-A 32 DP-1 (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	51799.375000				
R	3	626.875000	208.958333	1.000	0.4079	11.0
A	4	42902.500000	10725.625000	51.329	0.0001	12.3
B	1	525.625000	525.625000	2.515	0.1244	7.8
AB	4	2102.500000	525.625000	2.515	0.0648	17.4
ERROR	27	5641.875000	208.958333			

COMPLETE FACTORIAL AOV For W Weed GRASS Grangea sp. Grangea sp. Apr-26-10 1 14 14 14 DA-A 32 DP-1 (Data Column 3)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	45408.000000				
R	3	1339.600000	446.533333	1.033	0.4127	16.6
A	4	30768.750000	7692.187500	28.912	0.0001	14.5
RA	12	3192.650000	266.054167	0.616	0.7936	37.0
B	1	2044.900000	2044.900000	9.827	0.0519	10.7
RB	3	624.300000	208.100000	0.482	0.7012	23.4
AB	4	2252.350000	563.087500	1.303	0.3235	26.2
RAB	12	5185.450000	432.120833			

FACTORIAL/POOLED ERROR AOV For W Weed GRASS Grangea sp. Grangea sp. Apr-26-10 1 14 14 14 DA-A 32 DP-1 (Data Column 3)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	45408.000000				
R	3	1339.600000	446.533333	1.339	0.2824	13.9
A	4	30768.750000	7692.187500	23.070	0.0001	15.5
B	1	2044.900000	2044.900000	6.133	0.0198	9.8
AB	4	2252.350000	563.087500	1.689	0.1816	22.0
ERROR	27	9002.400000	333.422222			

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 Project ID: Investigator: Eric P. Prostko
 Sponsor Contact:

COMPLETE FACTORIAL AOV For ZEAMD BCOR Zea mays indentata Dent corn May-11-10 STUNT 1 29 29 29 DA-A 47 DP-1 (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	1377.500000				
R	3	287.500000	95.833333	2.805	0.0850	4.7
A	4	190.000000	47.500000	2.280	0.1208	4.1
RA	12	250.000000	20.833333	0.610	0.7982	10.4
B	1	2.500000	2.500000	0.059	0.8240	4.9
RB	3	127.500000	42.500000	1.244	0.3371	6.6
AB	4	110.000000	27.500000	0.805	0.5452	7.4
RAB	12	410.000000	34.166667			

FACTORIAL/POOLED ERROR AOV For ZEAMD BCOR Zea mays indentata Dent corn May-11-10 STUNT 1 29 29 29 DA-A 47 DP-1 (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	1377.500000				
R	3	287.500000	95.833333	3.286	0.0359	4.1
A	4	190.000000	47.500000	1.629	0.1959	4.6
B	1	2.500000	2.500000	0.086	0.7719	2.9
AB	4	110.000000	27.500000	0.943	0.4544	6.5
ERROR	27	787.500000	29.166667			

COMPLETE FACTORIAL AOV For W Weed AMAPA Amaranthus palmeri Palmer amaranth May-11-10 CONTROL 1 29 29 29 DA-A 47 DP-1 (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	43721.900000				
R	3	552.500000	184.166667	1.000	0.4262	10.8
A	4	31584.400000	7896.100000	42.875	0.0001	12.1
RA	12	2210.000000	184.166667	1.000	0.5000	24.2
B	1	1322.500000	1322.500000	7.181	0.0751	10.1
RB	3	552.500000	184.166667	1.000	0.4262	15.3
AB	4	5290.000000	1322.500000	7.181	0.0034	17.1
RAB	12	2210.000000	184.166667			

FACTORIAL/POOLED ERROR AOV For W Weed AMAPA Amaranthus palmeri Palmer amaranth May-11-10 CONTROL 1 29 29 29 DA-A 47 DP-1 (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	43721.900000				
R	3	552.500000	184.166667	1.000	0.4079	10.3
A	4	31584.400000	7896.100000	42.875	0.0001	11.6
B	1	1322.500000	1322.500000	7.181	0.0124	7.3
AB	4	5290.000000	1322.500000	7.181	0.0004	16.3
ERROR	27	4972.500000	184.166667			

COMPLETE FACTORIAL AOV For W Weed GRASS Grangea sp. Grangea sp. May-11-10 1 29 29 29 DA-A 47 DP-1 (Data Column 6)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	44260.000000				
R	3	811.000000	270.333333	0.836	0.4997	14.3
A	4	30853.250000	7713.312500	26.327	0.0001	15.3
RA	12	3515.750000	292.979167	0.906	0.5665	32.0
B	1	3459.600000	3459.600000	25.501	0.0150	8.7
RB	3	407.000000	135.666667	0.420	0.7423	20.3
AB	4	1332.650000	333.162500	1.030	0.4310	22.7
RAB	12	3880.750000	323.395833			

FACTORIAL/POOLED ERROR AOV For W Weed GRASS Grangea sp. Grangea sp. May-11-10 1 29 29 29 DA-A 47 DP-1 (Data Column 6)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	44260.000000				
R	3	811.000000	270.333333	0.935	0.4372	12.9
A	4	30853.250000	7713.312500	26.688	0.0001	14.5
B	1	3459.600000	3459.600000	11.970	0.0018	9.2
AB	4	1332.650000	333.162500	1.153	0.3534	20.5
ERROR	27	7803.500000	289.018519			

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ADDING PROWL TO COMMON POST TREATMENTS IN FIELD CORN - I

Trial ID: CN-04-10 Protocol ID:
 Location: PONDER FARM Study Director:
 Project ID: Investigator: Eric P. Prostko
 Sponsor Contact:

COMPLETE FACTORIAL AOV For W Weed AMAPA Amaranthus palmeri Palmer amaranth Jun-4-10 CONTROL 1 53 53 53 DA-A 71 DP-1 (Data Column 7)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	36577.600000				
R	3	68.200000	22.733333	0.786	0.5244	4.3
A	4	25484.850000	6371.212500	192.799	0.0001	5.1
RA	12	396.550000	33.045833	1.143	0.4106	9.6
B	1	2160.900000	2160.900000	55.078	0.0051	4.7
RB	3	117.700000	39.233333	1.357	0.3028	6.1
AB	4	8002.350000	2000.587500	69.175	0.0001	6.8
RAB	12	347.050000	28.920833			

FACTORIAL/POOLED ERROR AOV For W Weed AMAPA Amaranthus palmeri Palmer amaranth Jun-4-10 CONTROL 1 53 53 53 DA-A 71 DP-1 (Data Column 7)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	36577.600000				
R	3	68.200000	22.733333	0.713	0.5530	4.3
A	4	25484.850000	6371.212500	199.725	0.0001	4.8
B	1	2160.900000	2160.900000	67.740	0.0001	3.0
AB	4	8002.350000	2000.587500	62.714	0.0001	6.8
ERROR	27	861.300000	31.900000			

COMPLETE FACTORIAL AOV For W Weed GRASS Grangea sp. Grangea sp. Jun-4-10 1 53 53 53 DA-A 71 DP-1 (Data Column 8)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	44849.375000				
R	3	3311.875000	1103.958333	2.087	0.1554	18.3
A	4	18721.250000	4680.312500	14.669	0.0001	15.9
RA	12	3828.750000	319.062500	0.603	0.8031	41.0
B	1	9765.625000	9765.625000	42.965	0.0072	11.2
RB	3	681.875000	227.291667	0.430	0.7354	25.9
AB	4	2193.750000	548.437500	1.037	0.4280	29.0
RAB	12	6346.250000	528.854167			

FACTORIAL/POOLED ERROR AOV For W Weed GRASS Grangea sp. Grangea sp. Jun-4-10 1 53 53 53 DA-A 71 DP-1 (Data Column 8)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	44849.375000				
R	3	3311.875000	1103.958333	2.745	0.0625	15.3
A	4	18721.250000	4680.312500	11.639	0.0001	17.1
B	1	9765.625000	9765.625000	24.286	0.0001	10.8
AB	4	2193.750000	548.437500	1.364	0.2725	24.1
ERROR	27	10856.875000	402.106481			

COMPLETE FACTORIAL AOV For ZEAMD BCOR Zea mays indentata Dent corn Aug-10-10 YIELD LBS/PLOT 1 120 120 120 DA-A 138 DP-1 1 (Data Column 9)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	634.500000				
R	3	83.750000	27.916667	4.943	0.0184	1.9
A	4	249.875000	62.468750	4.311	0.0217	3.4
RA	12	173.875000	14.489583	2.565	0.0581	4.2
B	1	24.025000	24.025000	2.466	0.2143	2.3
RB	3	29.225000	9.741667	1.725	0.2150	2.7
AB	4	5.975000	1.493750	0.264	0.8951	3.0
RAB	12	67.775000	5.647917			

FACTORIAL/POOLED ERROR AOV For ZEAMD BCOR Zea mays indentata Dent corn Aug-10-10 YIELD LBS/PLOT 1 120 120 120 DA-A 138 DP-1 1 (Data Column 9)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	634.500000				
R	3	83.750000	27.916667	2.783	0.0601	2.4
A	4	249.875000	62.468750	6.227	0.0011	2.7
B	1	24.025000	24.025000	2.395	0.1334	1.7
AB	4	5.975000	1.493750	0.149	0.9619	3.8
ERROR	27	270.875000	10.032407			

University of Georgia

ADDING PROWL TO COMMON POST TREATMENTS IN FIELD CORN - I

Trial ID: CN-04-10 Protocol ID:
 Location: PONDER FARM Study Director:
 Project ID: Investigator: Eric P. Prostko
 Sponsor Contact:

COMPLETE FACTORIAL AOV For ZEAMD BCOR Zea mays indentata Dent corn Aug-10-10 YIELD BU/A 1 120 120 120 DA-A 138 DP-1 TY1 0 (Data Column 10)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	15639.843499				
R	3	2064.363857	688.121286	4.943	0.0184	9
A	4	6159.189756	1539.797439	4.311	0.0217	17
RA	12	4285.858111	357.154843	2.565	0.0581	21
B	1	592.194314	592.194314	2.466	0.2143	12
RB	3	720.367644	240.122548	1.725	0.2150	13
AB	4	147.279136	36.819784	0.264	0.8951	15
RAB	12	1670.590681	139.215890			

FACTORIAL/POOLED ERROR AOV For ZEAMD BCOR Zea mays indentata Dent corn Aug-10-10 YIELD BU/A 1 120 120 120 DA-A 138 DP-1 TY1 0 (Data Column 10)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	39	15639.843499				
R	3	2064.363857	688.121286	2.783	0.0601	12
A	4	6159.189756	1539.797439	6.227	0.0011	13
B	1	592.194314	592.194314	2.395	0.1334	8
AB	4	147.279136	36.819784	0.149	0.9619	19
ERROR	27	6676.816436	247.289498			

Pest Type

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

Pest Code

AMAPA, Amaranthus palmeri, = US

GRASS, Grangea sp., = US

Crop Code

ZEAMD, BCOR, Zea mays indentata, = US

Rating Type

YIELD = yield

Plant-Eval Interval

32 DP-1 = 1 Mar-25-10

47 DP-1 = 1 Mar-25-10

71 DP-1 = 1 Mar-25-10

138 DP-1 = 1 Mar-25-10

ARM Action Codes

TY1 = 4.964785*9