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DOES IMPACT HAVE AN IMPACT IN FIELD CORN?

Trial ID: CN-17-13 Study Dir.: GERALD HARRISON/NED FRENCH
Location: PONDER FARM Investigator: Eric P. Prostko

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

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Rep 1	2	3	4
1	NTC								101	203	304	403
2	IMPACT	2.85	SC	0.75	oz/a	POST	A	0.5859 ml/mx	102	201	302	404
	AATREX	4	L	64.0	oz/a	POST	A	49.99 ml/mx				
	COC			1.0	% v/v	POST	A	15.0 ml/mx				
	AMS XTRA	3.4	SL	2.5	% v/v	POST	A	37.5 ml/mx				
3	ROUNDUP W-MAX	5.5	SL	22.0	oz/a	POST	A	17.19 ml/mx	103	204	301	402
	IMPACT	2.85	SC	0.75	oz/a	POST	A	0.5859 ml/mx				
	AATREX	4	L	64.0	oz/a	POST	A	49.99 ml/mx				
	COC			1.0	% v/v	POST	A	15.0 ml/mx				
	AMS XTRA	3.4	SL	2.5	% v/v	POST	A	37.5 ml/mx				
4	ROUNDUP W-MAX	5.5	SL	22.0	oz/a	POST	A	17.19 ml/mx	104	202	303	401
	AATREX	4	L	64.0	oz/a	POST	A	49.99 ml/mx				
	COC			1.0	% v/v	POST	A	15.0 ml/mx				
	AMS XTRA	3.4	SL	2.5	% v/v	POST	A	37.5 ml/mx				

Sort Order: Treatment

Trial Comments

COC = RELIABLE

HARVEST DATE: AUGUST 27
HARVEST MOISTURE: 19.3%
YIELDS ADJUSTED TO 15.5% MOISTURE

SUMMARY:

1) SLIGHT CORN STUNTING WAS OBSERVED FROM ALL TREATMENTS AT 6 DAT (5-8%). ADDITIONS OF IMPACT DID NOT INCREASE CORN INJURY.

2) ALL TREATMENTS PROVIDED EXCELLENT CONTROL (99%) OF PALMER AMARANTH.

3) CORN YIELDS WERE NOT INFLUENCED BY ANY TREATMENT (P = 0.4920).

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Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: GERALD HARRISON/NED FRENCH **Title:** _____
Affiliation: _____ **Postal Code:** _____

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

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.** _____ _____

Crop 1: ZEAMA FIELD CORN **Variety:** N82V-3111 **Planting Date:** Mar-20-13
Planting Method: MONOSEM **Rate:** 28471 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: CONVNETIONAL **Study Design:** RACOBL
Trial Initiation Comments: _____
_____

Previous:	Crops	Pesticides	Year
1.	PEANUT	2012	____

MAINTENANCE

Field Prep./Maintenance: _____

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

SOIL DESCRIPTION

Texture: SAND **% OM:** 0.64 **% Sand:** 94 **% Silt:** 4 **% Clay:** 2
pH: 6.6 **CEC:** 4.7 **Soil Name:** TIFTON **Fertility Level:** _____

MOISTURE CONDITIONS

On:	Date	Time	Amount	Unit	Type	Interval	Unit
1.	Apr-10-13	_____	0.50	IN	IRRIGATION	_____	___

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

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	Apr-17-13	_____	_____	_____	_____	_____
Time of Day:	7:30 AM	_____	_____	_____	_____	_____
Application Method:	BROADCAST	_____	_____	_____	_____	_____
Application Timing:	POST	_____	_____	_____	_____	_____
Applic. Placement:	FOLIAGE	_____	_____	_____	_____	_____
Air Temp., Unit:	64 F	____ _	____ _	____ _	____ _	____ _
% Relative Humidity:	99	_____	_____	_____	_____	_____
Wind Velocity, Unit:	2 MPH	____ ____	____ ____	____ ____	____ ____	____ ____
Dew Presence (Y/N):	Y	_	_	_	_	_
Water Hardness:	--	_____	_____	_____	_____	_____
Soil Temp., Unit:	69 F	____ _	____ _	____ _	____ _	____ _
Soil Moisture:	OPTIMUM	_____	_____	_____	_____	_____
% Cloud Cover:	100	_____	_____	_____	_____	_____

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Stage:	ZEAMA _____	_____	_____	_____	_____	_____
Stage Scale:	V4	_____	_____	_____	_____	_____
Height, Unit:	6 IN	____ ____	____ ____	____ ____	____ ____	____ ____

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WEED STAGE AT EACH APPLICATION

		A	B	C	D	E	F
Weed 1	**Stage:** AMAPA 1-2" TALL						
Stage Scale:							
Density, Unit:							

APPLICATION EQUIPMENT

		A	B	C	D	E	F
Appl. Equipment:	BACKPACK						
Operating Pressure:	40						
Nozzle Type:	FLAT FAN						
Nozzle Size:	11002DG						
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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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6
	Weed Code							-----	AMAPA	-----	AMAPA	-----	AMAPA
	Crop Code							ZEAMA	-----	ZEAMA	-----	ZEAMA	-----
	Part Rated							PLANT -		PLANT -		PLANT -	
	Rating Data Type							STUNTING	CONTROL	STUNTING	CONTROL	STUNTING	CONTROL
	Rating Unit							PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Rating Date							Apr-23-13	Apr-23-13	May-3-13	May-3-13	May-29-13	May-29-13
	Trt-Eval Interval							6 DA-A	6 DA-A	16 DA-A	16 DA-A	42 DA-A	42 DA-A
	PRM Data Type												
	# Subsamples, Dec.												
1	NTC							0.0 b	0.0 b	0.0 b	0.0 b	0.0 a	0.0 b
2	IMPACT	2.85	SC	0.75	oz/a	POST	A	7.5 a	99.0 a	6.3 ab	99.0 a	0.0 a	99.0 a
	AATREX	4	L	64.0	oz/a	POST	A						
	COC			1.0	% v/v	POST	A						
	AMS XTRA	3.4	SL	2.5	% v/v	POST	A						
3	ROUNDUP W-MAX	5.5	SL	22.0	oz/a	POST	A	7.5 a	99.0 a	13.8 a	99.0 a	0.0 a	99.0 a
	IMPACT	2.85	SC	0.75	oz/a	POST	A						
	AATREX	4	L	64.0	oz/a	POST	A						
	COC			1.0	% v/v	POST	A						
	AMS XTRA	3.4	SL	2.5	% v/v	POST	A						
4	ROUNDUP W-MAX	5.5	SL	22.0	oz/a	POST	A	5.0 a	99.0 a	12.5 a	99.0 a	0.0 a	99.0 a
	AATREX	4	L	64.0	oz/a	POST	A						
	COC			1.0	% v/v	POST	A						
	AMS XTRA	3.4	SL	2.5	% v/v	POST	A						
	LSD (P=.10)							4.32	0.00	7.56	0.00	0.00	0.00
	Standard Deviation							3.33	0.00	5.83	0.00	0.00	0.00
	CV							66.67	0.0	71.79	0.0	0.0	0.0
	Grand Mean							5.0	74.25	8.13	74.25	0.0	74.25
	Bartlett's X2							0.079	0.0	3.618	0.0	0.0	0.0
	P(Bartlett's X2)							0.961	.	0.164	.	.	.
	Replicate F							4.500	0.000	1.041	0.000	0.000	0.000
	Replicate Prob(F)							0.0343	1.0000	0.4203	1.0000	1.0000	1.0000
	Treatment F							4.500	0.000	4.714	0.000	0.000	0.000
	Treatment Prob(F)							0.0343	1.0000	0.0304	1.0000	1.0000	1.0000

Means followed by same letter do not significantly differ (P=.10, Duncan's New MRT)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	7	8
	Weed Code							-----	-----
	Crop Code							ZEAMA	ZEAMA
	Part Rated							PLOT -	PLOT -
	Rating Data Type							YIELD	YIELD
	Rating Unit							LBS	BU/A
	Rating Date							Aug-27-13	Aug-27-13
	Trt-Eval Interval							132 DA-A	132 DA-A
	PRM Data Type								TY1
	# Subsamples, Dec.								- 0
1	NTC							49.5 a	245 a
2	IMPACT	2.85	SC	0.75	oz/a	POST	A	51.8 a	256 a
	AATREX	4	L	64.0	oz/a	POST	A		
	COC			1.0	% v/v	POST	A		
	AMS XTRA	3.4	SL	2.5	% v/v	POST	A		
3	ROUNDUP W-MAX	5.5	SL	22.0	oz/a	POST	A	50.0 a	248 a
	IMPACT	2.85	SC	0.75	oz/a	POST	A		
	AATREX	4	L	64.0	oz/a	POST	A		
	COC			1.0	% v/v	POST	A		
	AMS XTRA	3.4	SL	2.5	% v/v	POST	A		
4	ROUNDUP W-MAX	5.5	SL	22.0	oz/a	POST	A	51.0 a	253 a
	AATREX	4	L	64.0	oz/a	POST	A		
	COC			1.0	% v/v	POST	A		
	AMS XTRA	3.4	SL	2.5	% v/v	POST	A		
	LSD (P=.10)							2.80	13.9
	Standard Deviation							2.16	10.7
	CV							4.28	4.28
	Grand Mean							50.56	250.41
	Bartlett's X2							1.361	1.361
	P(Bartlett's X2)							0.715	0.715
	Replicate F							0.976	0.976
	Replicate Prob(F)							0.4459	0.4459
	Treatment F							0.869	0.869
	Treatment Prob(F)							0.4920	0.4920

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Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code
AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.
Part Rated
PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)
PRM Data Type
TY1 = 4.952511*[C7]

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Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot	1	2	3	4	5	6
	Weed Code								-----	AMAPA	-----	AMAPA	-----	AMAPA
	Crop Code								ZEAMA	-----	ZEAMA	-----	ZEAMA	-----
	Part Rated								PLANT		PLANT		PLANT	
	Rating Data Type								STUNTING	CONTROL	STUNTING	CONTROL	STUNTING	CONTROL
	Rating Unit								PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Rating Date								Apr-23-13	Apr-23-13	May-3-13	May-3-13	May-29-13	May-29-13
	Trt-Eval Interval								6 DA-A	6 DA-A	16 DA-A	16 DA-A	42 DA-A	42 DA-A
	PRM Data Type													
	# Subsamples, Dec.													
1	NTC							101	0.0	0.0	0.0	0.0	0.0	0.0
								203	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
								403	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	IMPACT	2.85	SC	0.75	oz/a	POST	A	102	10.0	99.0	0.0	99.0	0.0	99.0
	AATREX	4	L	64.0	oz/a	POST	A	201	10.0	99.0	15.0	99.0	0.0	99.0
	COC			1.0	% v/v	POST	A	302	0.0	99.0	10.0	99.0	0.0	99.0
	AMS XTRA	3.4	SL	2.5	% v/v	POST	A	404	10.0	99.0	0.0	99.0	0.0	99.0
								Mean =	7.5	99.0	6.3	99.0	0.0	99.0
3	ROUNDUP W-MAX	5.5	SL	22.0	oz/a	POST	A	103	10.0	99.0	15.0	99.0	0.0	99.0
	IMPACT	2.85	SC	0.75	oz/a	POST	A	204	10.0	99.0	10.0	99.0	0.0	99.0
	AATREX	4	L	64.0	oz/a	POST	A	301	0.0	99.0	15.0	99.0	0.0	99.0
	COC			1.0	% v/v	POST	A	402	10.0	99.0	15.0	99.0	0.0	99.0
	AMS XTRA	3.4	SL	2.5	% v/v	POST	A							
								Mean =	7.5	99.0	13.8	99.0	0.0	99.0
4	ROUNDUP W-MAX	5.5	SL	22.0	oz/a	POST	A	104	0.0	99.0	0.0	99.0	0.0	99.0
	AATREX	4	L	64.0	oz/a	POST	A	202	10.0	99.0	15.0	99.0	0.0	99.0
	COC			1.0	% v/v	POST	A	303	0.0	99.0	15.0	99.0	0.0	99.0
	AMS XTRA	3.4	SL	2.5	% v/v	POST	A	401	10.0	99.0	20.0	99.0	0.0	99.0
								Mean =	5.0	99.0	12.5	99.0	0.0	99.0

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot	7	8
	Weed Code								-----	-----
	Crop Code								ZEAMA	ZEAMA
	Part Rated								PLOT -	PLOT -
	Rating Data Type								YIELD	YIELD
	Rating Unit								LBS	BU/A
	Rating Date								Aug-27-13	Aug-27-13
	Trt-Eval Interval								132 DA-A	132 DA-A
	PRM Data Type									TY1
	# Subsamples, Dec.									- 0
1	NTC							101	49.0	243
								203	47.0	233
								304	51.0	253
								403	51.0	253
								Mean =	49.5	245
2	IMPACT	2.85	SC	0.75	oz/a	POST	A	102	48.0	238
	AATREX	4	L	64.0	oz/a	POST	A	201	52.0	258
	COC			1.0	% v/v	POST	A	302	52.0	258
	AMS XTRA	3.4	SL	2.5	% v/v	POST	A	404	55.0	272
								Mean =	51.8	256
3	ROUNDUP W-MAX	5.5	SL	22.0	oz/a	POST	A	103	49.0	243
	IMPACT	2.85	SC	0.75	oz/a	POST	A	204	52.0	258
	AATREX	4	L	64.0	oz/a	POST	A	301	50.0	248
	COC			1.0	% v/v	POST	A	402	49.0	243
	AMS XTRA	3.4	SL	2.5	% v/v	POST	A			
								Mean =	50.0	248
4	ROUNDUP W-MAX	5.5	SL	22.0	oz/a	POST	A	104	51.0	253
	AATREX	4	L	64.0	oz/a	POST	A	202	53.0	262
	COC			1.0	% v/v	POST	A	303	48.0	238
	AMS XTRA	3.4	SL	2.5	% v/v	POST	A	401	52.0	258
								Mean =	51.0	253

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