

InPress Adjuvant Study in Corn.

Project Code: 06-ARC-4-E100 Location: Agronomy Research Center
 Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Carbondale IL 62901 USA
Trial Status: Final **Updated:** 8-14-06

Objective:

Evaluate the effect of InPress adjuvant with postemergence corn herbicides.

Weed Code	Common Name	Scientific Name
1. AMBEL	ragweed, common	Ambrosia artemisiifolia L.
2. AMATA	waterhemp, common	Amaranthus rudis Sauer
3. SETFA	foxtail, giant	Setaria faberi Herrm.

Crop 1: ZEAMX corn, field **Variety:** P31G96 RR/HX
Planting Method: Seeded **Planting Date:** 4-20-06
Rate: 28000 S/A **Depth:** 1.5 IN
Row Spacing: 30 IN

Plot Width, Unit: 10 FT **Plot Length, Unit:** 23 FT **Reps:** 3
Tillage Type: Reduced-Till **Study Design:** Randomized complete block
Previous Crop, Year: GLXMA, 2005
Field Prep./Maintenance: N 130 LB/A, P205 0 LB/A, K20 0 LB/A

Soil Name: Weir **% OM:** 1.7 **pH:** 6 **CEC:** 8.2
Texture: Silt loam **Fert. Level:** P1: 64 LB/A, K: 319 LB/A

APPLICATION DESCRIPTION

Application Date: 5-27-06
Time of Day: 10:00
Application Method: Spray
Application Timing: 6"W
Applic. Placement: BROFOL
Air Temp., Unit: 86 F
% Relative Humidity: 47
Wind Velocity, Unit: 5 MPH
Dew Presence (Y/N): N
Soil Moisture: BELNOR
% Cloud Cover: 0

CROP STAGE AT EACH APPLICATION

Crop 1 Code, Stage: ZEAMX V3
Height, Unit: 6-8 IN

WEED STAGE AT EACH APPLICATION

Weed 1 Code: AMBEL
Stage (leaves): 8-14
Height (inches): 6-10
Density: High

Weed 2 Code: AMATA
Stage (leaves): 10-20
Height (inches): 4-8
Density: Medium

Weed 3 Code: SETFA
Stage (leaves): 4-8
Height (inches): 6-11
Density: Low

APPLICATION EQUIPMENT

Appl. Equipment: CO2 sprayer
Operating Pressure: 40 PSI
Nozzle Type: Flat fan
Nozzle Size: 8002
Boom Length, Unit: 7.5 FT
Spray Volume, Unit: 15 GPA

NOTES:

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								AMBEL	AMBEL	AMATA	AMATA	SETFA	SETFA	ZEAMX	ZEAMX		
								Control	Control	Control	Control	Control	Control	Injury	Injury		
								Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent		
								6-10-06	6-24-06	6-10-06	6-24-06	6-10-06	6-24-06	6-10-06	6-24-06		
								14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A		
Trt	Treatment	Form	Form	Rate	Rate	Prod	Prod	Grow	Appl								
No.	Name	Conc	Type	Unit	Unit	Rate	Unit	Stg	Code								
1	NONTREATED									0	0	0	0	0	0	0	
2	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	6"W	A	97	99	89	96	86	99	0	0
2	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	6"W	A								
2	INPRESS	100	LIQ	0.125	% v/v	1.0	pt/100 gal	6"W	A								
2	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	6"W	A								
3	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	6"W	A	97	99	89	97	87	99	0	0
3	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	6"W	A								
3	INPRESS	100	LIQ	0.188	% v/v	1.5	pt/100 gal	6"W	A								
3	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	6"W	A								
4	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	6"W	A	96	99	98	98	87	98	0	0
4	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	6"W	A								
4	FS MSO	100	LIQ	1.0	% v/v	1	% v/v	6"W	A								
4	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	6"W	A								
5	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	6"W	A	73	91	87	94	72	97	0	0
5	STEADFAST	75	WG	0.035	lb ai/a	0.75	oz/a	6"W	A								
5	INPRESS	100	LIQ	0.188	% v/v	1.5	pt/100 gal	6"W	A								
5	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	6"W	A								
6	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	6"W	A	79	95	70	94	72	98	0	0
6	STEADFAST	75	WG	0.035	lb ai/a	0.75	oz/a	6"W	A								
6	FS MSO	100	LIQ	1.0	% v/v	1	% v/v	6"W	A								
6	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	6"W	A								
7	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	6"W	A	96	99	99	99	48	27	0	0
7	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	6"W	A								
7	INPRESS	100	LIQ	0.188	% v/v	1.5	pt/100 gal	6"W	A								
7	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	6"W	A								
8	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	6"W	A	96	98	98	99	47	28	0	0
8	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	6"W	A								
8	FS MSO	100	LIQ	1.0	% v/v	1	% v/v	6"W	A								
8	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	6"W	A								
9	OPTION	35	WG	0.0328	lb ai/a	1.5	oz/a	6"W	A	65	68	42	48	65	86	0	0
9	INPRESS	100	LIQ	0.125	% v/v	1.0	pt/100 gal	6"W	A								
9	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	6"W	A								
10	OPTION	35	WG	0.0328	lb ai/a	1.5	oz/a	6"W	A	62	63	42	53	50	78	0	0
10	INPRESS	100	LIQ	0.188	% v/v	1.5	pt/100 gal	6"W	A								
10	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	6"W	A								
11	OPTION	35	WG	0.0328	lb ai/a	1.5	oz/a	6"W	A	67	70	38	40	53	83	0	0
11	FS MSO	100	LIQ	1.0	% v/v	1	% v/v	6"W	A								
11	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	6"W	A								
12	EQUIP	32	WG	0.03	lb ai/a	1.5	oz/a	6"W	A	75	94	43	48	55	82	0	0
12	INPRESS	100	LIQ	0.188	% v/v	1.5	pt/100 gal	6"W	A								
12	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	6"W	A								
13	EQUIP	32	WG	0.03	lb ai/a	1.5	oz/a	6"W	A	76	96	42	40	58	78	0	0
13	FS MSO	100	LIQ	1.0	% v/v	1	% v/v	6"W	A								
13	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	6"W	A								
14	OPTION	35	WG	0.0164	lb ai/a	0.75	oz/a	6"W	A	67	48	45	52	57	83	0	0
14	INPRESS	100	LIQ	0.188	% v/v	1.5	pt/100 gal	6"W	A								
14	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	6"W	A								
15	OPTION	35	WG	0.0164	lb ai/a	0.75	oz/a	6"W	A	60	55	38	43	53	85	0	0
15	FS MSO	100	LIQ	1.0	% v/v	1	% v/v	6"W	A								
15	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	6"W	A								
16	EQUIP	32	WG	0.015	lb ai/a	0.75	oz/a	6"W	A	67	80	42	33	60	73	0	0
16	INPRESS	100	LIQ	0.188	% v/v	1.5	pt/100 gal	6"W	A								
16	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	6"W	A								
17	EQUIP	32	WG	0.015	lb ai/a	0.75	oz/a	6"W	A	75	93	38	33	58	82	0	0
17	FS MSO	100	LIQ	1.0	% v/v	1	% v/v	6"W	A								
17	28% UAN	100	LIQ	2.5	% v/v	2.5	% v/v	6"W	A								
18	NONTREATED									0	0	0	0	0	0	0	0

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Weed Code	AMBEL	AMBEL	AMATA	AMATA	SETFA	SETFA	ZEAMX	ZEAMX										
Crop Code																		
Rating Data Type	Control	Control	Control	Control	Control	Control	Injury	Injury										
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent										
Rating Date	6-10-06	6-24-06	6-10-06	6-24-06	6-10-06	6-24-06	6-10-06	6-24-06										
Trt-Eval Interval	14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A										
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code									
LSD (P=.05)				4.9		6.9		6.0		11.9		4.3		8.1		0.0		0.0
Replicate F				0.184		5.328		0.620		1.053		2.645		0.384		0.000		0.000
Replicate Prob(F)				0.8330		0.0101		0.5443		0.3606		0.0865		0.6844		1.0000		1.0000
Treatment F				285.643		176.611		231.974		67.581		264.566		139.756		0.000		0.000
Treatment Prob(F)				0.0001		0.0001		0.0001		0.0001		0.0001		0.0001		1.0000		1.0000

Trial Comments

1. Protocol: Growmark.
2. Ratings: CI/WC 14 + 28 DAT.
3. DA-A = Days after 6"W application.
4. Not harvested.