

Aim Burndown in No-Till Corn.

Project Code: 05-2B-E55 Location: Belleville Research Center
 Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
Trial Status: Final **Updated:** 11-14-05

Objective:

Evaluate the utility of Aim in burndown systems for no-till corn.

Weed Code	Common Name	Scientific Name
1. ALLVI	garlic, wild	Allium vineale L.
2. HORPU	barley, little	Hordeum pusillum Nutt.
3. RANAB	buttercup, smallflower	Ranunculus abortivus L.
4. POLPY	smartweed, Pennsylvania	Polygonum pennsylvanicum L.
5. CERVU	chickweed, mouseear	Cerastium vulgatum L.

Crop 1: ZEAMX corn, field **Variety:** 33P65 RR
Planting Method: Seeded **Planting Date:** 5-8-05
Rate: 28000 S/A **Depth:** 1.5 IN
Row Spacing: 30 IN

Plot Width, Unit: 10 FT **Plot Length, Unit:** 28 FT **Reps:** 3
Tillage Type: No-Till **Study Design:** Randomized complete block
Previous Crop, Year: GLXMA, 2004

Field Prep./Maintenance: N 150 LB/A, P205 50 LB/A, K20 100 LB/A

Soil Name: Weir **% OM:** 1.6 **pH:** 6.1 **CEC:** 8
Texture: Silt loam **Fert. Level:** P1: 91 LB/A, K: 410 LB/A

APPLICATION DESCRIPTION

A
Application Date: 04-25-05
Time of Day: 10:00
Application Method: Spray
Application Timing: 14DBP
Applic. Placement: BROFOL
Air Temp., Unit: 54 F
% Relative Humidity: 49
Wind Velocity, Unit: 3 MPH
Soil Moisture: ABONOR

CROP STAGE AT EACH APPLICATION

A
Crop 1 Code, Stage: ZEAMX NA
Height, Unit: NA NA

WEED STAGE AT EACH APPLICATION

A
Weed 1 Code: ALLVI
Stage (leaves): 3-4
Height (inches): 8-16
Density: Medium
Weed 2 Code: HORPU
Stage (leaves): 5-6
Height (inches): 6-8
Density: Medium
Weed 3 Code: RANAB
Stage (leaves): 10+
Height (inches): 6-12
Density: Low
Weed 4 Code: POLPY
Stage (leaves): 3-4
Height (inches): 1-3
Density: Low
Weed 5 Code: CERVU
Stage (leaves): 10+
Height (inches): 4-6
Density: Medium

APPLICATION EQUIPMENT

A
Appl. Equipment: CO2 sprayer
Operating Pressure: 40 PSI
Nozzle Type: Flat fan
Nozzle Size: 8003
Boom Length, Unit: 7.5 FT
Spray Volume, Unit: 20 GPA

NOTES:

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								ALLVI	ALLVI	HORPU	HORPU	RANAB	RANAB
								Control	Control	Control	Control	Control	Control
								Percent	Percent	Percent	Percent	Percent	Percent
								04-29-05	05-09-05	04-29-05	05-09-05	04-29-05	05-09-05
								4 DA-A	14 DA-A	4 DA-A	14 DA-A	4 DA-A	14 DA-A
Trt	Treatment	Form	Form	Rate	Prod	Prod	Grow	Appl					
No.	Name	Conc	Type	Unit	Rate	Unit	Stg	Code					
1	NONTREATED								0	0	0	0	0
2	ROUNDUP ORIG MAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	14DBP	A	0	53	0	99	0
2	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	14DBP	A					98
3	AIM	2	EW	0.0078 lb ai/a	0.5	fl oz/a	14DBP	A	0	53	0	99	0
3	ROUNDUP ORIG MAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	14DBP	A					99
3	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	14DBP	A					
4	AIM	2	EW	0.0078 lb ai/a	0.5	fl oz/a	14DBP	A	0	47	0	92	0
4	ROUNDUP ORIG MAX	4.5	SL	0.387 lb ae/a	11	fl oz/a	14DBP	A					99
4	BARRAGE HF	4.7	EC	0.367 lb ae/a	10	fl oz/a	14DBP	A					
4	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	14DBP	A					
5	AIM	2	EW	0.0117 lb ai/a	0.75	fl oz/a	14DBP	A	0	73	0	99	0
5	ROUNDUP ORIG MAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	14DBP	A					99
5	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	14DBP	A					
6	AIM	2	EW	0.0117 lb ai/a	0.75	fl oz/a	14DBP	A	0	57	0	99	0
6	ROUNDUP ORIG MAX	4.5	SL	0.58 lb ae/a	16.5	fl oz/a	14DBP	A					99
6	BARRAGE HF	4.7	EC	0.22 lb ae/a	6	fl oz/a	14DBP	A					
6	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	14DBP	A					
7	GRAMOXONE INTEON	2	SL	0.75 lb ai/a	3	pt/a	14DBP	A	80	88	80	97	80
7	ACTIVATOR 90	100	LIQ	0.25 % v/v	0.25	% v/v	14DBP	A					99
8	ROUNDUP ORIG MAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	14DBP	A	0	53	0	97	0
8	AATREX	90	WG	1.0 lb ai/a	1.11	lb/a	14DBP	A					97
8	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	14DBP	A					
LSD (P=.05)									0.0	27.6	0.0	2.3	0.0
Replicate F									0.000	1.149	0.000	2.174	0.000
Replicate Prob(F)									1.0000	0.3452	1.0000	0.1506	1.0000
Treatment F									0.000	7.774	0.000	2049.417	0.000
Treatment Prob(F)									1.0000	0.0006	1.0000	0.0001	1.0000

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Weed Code				POLPY		POLPY		CERVU		CERVU	
Crop Code				Control		Control		Control		Control	
Rating Data Type				Percent		Percent		Percent		Percent	
Rating Unit				04-29-05		05-09-05		04-29-05		05-09-05	
Rating Date				4 DA-A		14 DA-A		4 DA-A		14 DA-A	
Trt-Eval Interval											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code		
1	NONTREATED									0	0
2	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	14DBP	A	0	96
2	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	14DBP	A	0	98
3	AIM	2	EW	0.0078	lb ai/a	0.5	fl oz/a	14DBP	A	0	98
3	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	14DBP	A	0	98
3	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	14DBP	A	0	98
4	AIM	2	EW	0.0078	lb ai/a	0.5	fl oz/a	14DBP	A	0	98
4	ROUNDUP ORIG MAX	4.5	SL	0.387	lb ae/a	11	fl oz/a	14DBP	A	0	98
4	BARRAGE HF	4.7	EC	0.367	lb ae/a	10	fl oz/a	14DBP	A	0	93
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	14DBP	A	0	93
5	AIM	2	EW	0.0117	lb ai/a	0.75	fl oz/a	14DBP	A	0	99
5	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	14DBP	A	0	99
5	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	14DBP	A	0	99
6	AIM	2	EW	0.0117	lb ai/a	0.75	fl oz/a	14DBP	A	0	98
6	ROUNDUP ORIG MAX	4.5	SL	0.58	lb ae/a	16.5	fl oz/a	14DBP	A	0	98
6	BARRAGE HF	4.7	EC	0.22	lb ae/a	6	fl oz/a	14DBP	A	0	99
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	14DBP	A	0	99
7	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	14DBP	A	80	99
7	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	14DBP	A	80	99
8	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	14DBP	A	0	99
8	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	14DBP	A	0	99
8	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	14DBP	A	0	99
LSD (P=.05)										0.0	3.6
Replicate F										0.000	0.740
Replicate Prob(F)										1.0000	0.4947
Treatment F										0.000	854.155
Treatment Prob(F)										1.0000	0.0001

Trial Comments

1. Protocol: FMC, Syngenta.
2. Ratings: WC 5 and 14 DAT.
3. 14DBP = 14 days before planned planting date.
4. DA-A = Days after 14DBP application.