

General Burndown and Residual Herbicides in No-Till Corn.

02-2A-E110

OBJECTIVE: Evaluate Basis, Aim, Axiom, and USA 2001 for use in corn no-till burndown programs.

SUMMARY: 14 days after the 7 day early preplant (EPP) applications
 Little barley control was at least 89% from all 7 day EPP treatments that included glyphosate (Touchdown, Roundup UltraMax, Cornerstone) and from all 28 day EPP treatments. All herbicide treatments provided at least 95% control of barnyardgrass except Bicep II Magnum plus Aim and treatments containing AGH 02001. Common ragweed control was at least 94% from all herbicide treatments. Similarly, all herbicide treatments provided at least 90% control of common cocklebur except Basis at 0.33 oz/A 28 days EPP and AGH 02001 plus Class Act NG applied 7 days EPP.

42 days after planting (DAP)
 Common ragweed control 42 DAP was at least 85% from all treatments except Axiom plus Aim applied 7 days EPP and Basis plus Aatrex, Princep, and Salvo applied 28 day EPP. Common cocklebur and waterhemp control was highly variable by 42 DAP but treatments that included at postemergence herbicide application provided excellent control of both species. Giant foxtail control was less than 70% from all herbicide treatments except Axiom plus Roundup UltraMax followed by Distinct (82%) and treatments that included a postemergence application of Steadfast plus Callisto and Aatrex.

HERBICIDES	WEEDS	CROP
AATREX 90 WG	barley, little	corn, field
AGH 02001 4.128 EC	barnyardgrass	
AIM 2 EW	cocklebur, common	
AXIOM 68 WG	foxtail, giant	
BALANCE PRO 4 SC	nutsedge, yellow	
BASIS 75 WG	ragweed, common	
BICEP II MAGNUM 5.5 L	waterhemp, common	
CALLISTO 4 SC		
CORNERSTONE 3 SL		
DEGREE EXTRA 4 L		
DISTINCT 70 WG		
EPIC 58 WG		
GUARDSMAN MAX 5 L		
PRINCEP 90 WG		
ROUNDUP ULTRA MAX 3.7 SL		
SALVO 5 EC		
STEADFAST 75 WG		
TOUCHDOWN 3 SL		
USA 2001 71.5 WG		

Bryan Young

PLANT, SOIL AND GENERAL AGRICULTURE DEPARTMENT

SOUTHERN ILLINOIS UNIVERSITY

General Burndown and Residual Herbicides in No-Till Corn.

Project Code: 02-2A-E110 Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
 Trial Status: Final Updated: 10-23-02

Objective:

Evaluate Basis, Aim, Axiom, and USA 2001 for use in corn no-till burndown programs.

Weed Code	Common Name	Scientific Name
1. HORPU	barley, little	Hordeum pusillum Nutt.
2. ECHCG	barnyardgrass	Echinochloa crus-galli (L.) Beauv.
3. AMBEL	ragweed, common	Ambrosia artemisiifolia L.
4. XANST	cocklebur, common	Xanthium strumarium L.
5. SETFA	foxtail, giant	Setaria faberi Herrm.
6. CYPES	nutsedge, yellow	Cyperus esculentus L.
7. AMATA	waterhemp, common	Amaranthus rudis Sauer

Crop 1: ZEAMX corn, field Variety: Pioneer 33P69LL
 Planting Method: Seeded Planting Date: 5-27-02
 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, 2001

Field Prep./Maintenance: N 0 LB/A, P205 50 LB/A, K20 150 LB/A

Soil Name: Weir % OM: 1.5 pH: 6.4 CEC: 10
 Texture: Silt loam Fert. Level: P1: 81 LB/A, K: 274 LB/A

APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	4-18-02	5-15-02	6-3-02	6-6-02
Time of Day:	11:00	15:00	9:00	9:45
Application Method:	Spray	Spray	Spray	Spray
Application Timing:	28EPP	7EPP	7DAP	V3-V6
Applic. Placement:	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	82 F	76 F	80 F	64 F
% Relative Humidity:	62	40	76	80
Wind Velocity, Unit:	5 MPH	10 MPH	5 MPH	MPH
Soil Moisture:	ABONOR	ABONOR	NORMAL	NORMAL

CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	ZEAMX NA	ZEAMX NA	ZEAMX Spike	ZEAMX V2-V3
Height, Unit:	NA NA	NA NA	0-1 IN	3-5 IN

WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code:	HORPU	HORPU		
Stage(leaves):	5-6	5-6		
Height(inches):	4-6	4-8		
Density:	Medium	Medium		
Weed 2 Code:	ECHCG			
Stage(leaves):	0-2			
Height(inches):	0-1			
Density:	Low			
Weed 3 Code:	AMBEL	AMBEL	AMBEL	AMBEL
Stage(leaves):	0-2	3-5	2-3	2-6
Height(inches):	0-2	1-3	2-4	0-4
Density:	Medium	Medium	Low	Low

Weed 4 Code:		XANST	XANST	XANST
Stage(leaves):		5-6	2-6	2-6
Height(inches):		1-4	2-3	2-6
Density:		Low	Medium	Low
Weed 5 Code:	SETFA	SETFA	SETFA	SETFA
Stage(leaves):	0-2	2-3	2-6	1-4
Height(inches):	0-1	1-3	2-6	0-4
Density:	Medium	Medium	High	High
Weed 6 Code:				CYPES
Stage(leaves):				2-6
Height(inches):				2-6
Density:				Medium
Weed 7 Code:			AMATA	AMATA
Stage(leaves):			0-2	0-6
Height(inches):			0-4	0-6
Density:			High	Medium

APPLICATION EQUIPMENT

	A	B	C	D
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	40 PSI	40 PSI	40 PSI	40 PSI
Nozzle Type:	Flat fan	Flat fan	Flat fan	Flat fan
Nozzle Size:	8003	8003	8003	8002
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA	20 GPA

NOTES:

This study was not harvested.

General Burndown and Residual Herbicides in No-Till Corn.

Project Code: 02-2A-E110 Location: Belleville Research Center

Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	HORPU ECHCG AMBEL AMBEL AMBEL XANST XANST XANST CYPES SETFA SETFA																
						ZEAMX Injury Percent	ZEAMX Injury Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent				
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	6-7-02 7 DAE	6-20-02 14 DA-D	5-29-02 14 DA-B	5-29-02 14 DA-B	5-29-02 14 DA-B	6-17-02 21 DAP	7-8-02 42 DAP	5-29-02 14 DA-B	6-17-02 21 DAP	7-8-02 42 DAP	6-17-02 21 DAP	7-8-02 42 DAP	
1	NONTREATED									0	0	0	0	0	0	0	0	0	0	0	0	0
2	BASIS	75	WG	0.0155	LB A/A	0.33	OZ/A	28EPP	A	0	0	99	96	94	99	99	80	99	98	93	99	96
2	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	28EPP	A													
2	SALVO	5	EC	0.5	LB AE/A	12.8	OZ/A	28EPP	A													
2	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	28EPP	A													
2	STEADFAST	75	WG	0.0352	LB A/A	0.75	OZ/A	V3-V6	D													
2	CALLISTO	4	SC	0.047	LB A/A	1.5	OZ/A	V3-V6	D													
2	AATREX	90	WG	0.75	LB A/A	13.3	OZ/A	V3-V6	D													
2	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	V3-V6	D													
2	28% UAN	100	LIQ	4.0	% V/V	4	%V/V	V3-V6	D													
3	BASIS	75	WG	0.0234	LB A/A	0.5	OZ/A	28EPP	A	0	0	89	99	98	99	96	93	99	92	96	99	98
3	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	28EPP	A													
3	SALVO	5	EC	0.5	LB AE/A	12.8	OZ/A	28EPP	A													
3	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	28EPP	A													
3	STEADFAST	75	WG	0.0352	LB A/A	0.75	OZ/A	V3-V6	D													
3	CALLISTO	4	SC	0.047	LB A/A	1.5	OZ/A	V3-V6	D													
3	AATREX	90	WG	0.75	LB A/A	13.3	OZ/A	V3-V6	D													
3	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	V3-V6	D													
3	28% UAN	100	LIQ	4.0	% V/V	4	%V/V	V3-V6	D													
4	BASIS	75	WG	0.0352	LB A/A	0.75	OZ/A	28EPP	A	0	0	99	98	97	58	0	97	73	60	0	40	10
4	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	28EPP	A													
4	PRINCEP	90	WG	1.0	LB A/A	1.11	LB/A	28EPP	A													
4	SALVO	5	EC	0.5	LB AE/A	12.8	OZ/A	28EPP	A													
4	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	28EPP	A													
5	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	7EPP	B	0	0	79	85	99	96	93	98	78	50	7	74	40
5	AIM	2	EW	0.0078	LB A/A	0.5	OZ/A	7EPP	B													
5	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	7EPP	B													
6	GUARDSMAN MAX	5	L	2.656	LB A/A	4.25	PT/A	7EPP	B	0	0	53	98	99	99	96	99	93	86	33	77	20
6	AIM	2	EW	0.0078	LB A/A	0.5	OZ/A	7EPP	B													
6	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	7EPP	B													
7	BALANCE PRO	4	SC	0.094	LB A/A	3	OZ/A	7EPP	B	0	0	52	96	99	77	88	98	88	50	0	57	3
7	AIM	2	EW	0.0078	LB A/A	0.5	OZ/A	7EPP	B													
7	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	7EPP	B													
8	AXIOM	68	WG	0.808	LB A/A	19	OZ/A	7EPP	B	0	0	37	96	99	53	46	96	78	63	10	65	45
8	AIM	2	EW	0.0078	LB A/A	0.5	OZ/A	7EPP	B													
8	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	7EPP	B													

Weed Code																					
Crop Code																					
Rating Data Type																					
Rating Unit																					
Rating Date																					
Trt-Eval Interval																					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ZEAMX Injury Percent	ZEAMX Injury Percent	HORPU Control Percent	ECHCG Control Percent	AMBEL Control Percent	AMBEL Control Percent	AMBEL Control Percent	XANST Control Percent	XANST Control Percent	XANST Control Percent	CYPES Control Percent	SETFA Control Percent	SETFA Control Percent		
9	AXIOM	68	WG	0.723	LB A/A	17	OZ/A	7EPP	B	0	0	94	98	99	99	99	99	99	99	72	50	97	82	
9	ROUNDUP ULTRA MAX	3.7	SL	0.578	LB AE/A	20	OZ/A	7EPP	B															
9	AMS	100	DRY	2.0	% W/W	2	%W/W	7EPP	B															
9	DISTINCT	70	WG	0.175	LB A/A	4	OZ/A	V3-V6	D															
9	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	V3-V6	D															
9	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	V3-V6	D															
10	EPIC	58	WG	0.435	LB A/A	12	OZ/A	7EPP	B	0	0	99	99	99	99	99	99	99	99	85	71	7	88	23
10	AATREX	90	WG	1.25	LB A/A	1.39	LB/A	7EPP	B															
10	ROUNDUP ULTRA MAX	3.7	SL	0.578	LB AE/A	20	OZ/A	7EPP	B															
10	AMS	100	DRY	2.0	% W/W	2	%W/W	7EPP	B															
11	USA 2001	71.5	WG	0.536	LB A/A	12	OZ/A	7EPP	B	0	0	95	98	99	99	99	99	98	87	82	10	82	20	
11	AATREX	90	WG	1.5	LB A/A	1.67	LB/A	7EPP	B															
11	ROUNDUP ULTRA MAX	3.7	SL	0.578	LB AE/A	20	OZ/A	7EPP	B															
11	AMS	100	DRY	2.0	% W/W	2	%W/W	7EPP	B															
12	AXIOM	68	WG	0.723	LB A/A	17	OZ/A	7EPP	B	0	0	96	99	99	96	98	98	98	96	83	7	87	42	
12	AATREX	90	WG	2.0	LB A/A	2.22	LB/A	7EPP	B															
12	ROUNDUP ULTRA MAX	3.7	SL	0.578	LB AE/A	20	OZ/A	7EPP	B															
12	AMS	100	DRY	2.0	% W/W	2	%W/W	7EPP	B															
13	USA 2001	71.5	WG	0.67	LB A/A	15	OZ/A	7EPP	B	0	0	98	99	99	99	96	97	93	93	93	17	87	33	
13	AATREX	90	WG	1.5	LB A/A	1.67	LB/A	7EPP	B															
13	ROUNDUP ULTRA MAX	3.7	SL	0.578	LB AE/A	20	OZ/A	7EPP	B															
13	AMS	100	DRY	2.0	% W/W	2	%W/W	7EPP	B															
14	AGH 02001	4.128	EC	0.258	LB A/A	0.5	PT/A	7EPP	B	0	0	20	68	98	99	99	99	91	99	99	45	53	13	
14	PREFERENCE	100	LIQ	0.25	% V/V	0.25	%V/V	7EPP	B															
14	AMS	100	DRY	1.0	% W/W	1	%W/W	7EPP	B															
14	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	7DAP	C															
14	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	7DAP	C															
15	AGH 02001	4.128	EC	0.258	LB A/A	0.5	PT/A	7EPP	B	0	0	76	68	98	99	99	83	99	99	99	53	62	20	
15	CLASS ACT NG	100	LIQ	2.5	% V/V	2.5	%V/V	7EPP	B															
15	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	7DAP	C															
15	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	7DAP	C															
16	CORNERSTONE	3	SL	0.375	LB AE/A	1	PT/A	7EPP	B	0	0	96	95	98	99	99	95	99	99	99	57	86	33	
16	AGH 02001	4.128	EC	0.258	LB A/A	0.5	PT/A	7EPP	B															
16	CLASS ACT NG	100	LIQ	2.5	% V/V	2.5	%V/V	7EPP	B															
16	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	7DAP	C															
16	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	7DAP	C															

Weed Code	HORPU ECHCG AMBEL AMBEL AMBEL XANST XANST XANST CYPES SETFA SETFA													
Crop Code	ZEAMX	ZEAMX	Control		Control		Control		Control		Control		Control	
Rating Data Type	Injury	Injury	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit	6-7-02	6-20-02	5-29-02	5-29-02	5-29-02	6-17-02	7-8-02	5-29-02	6-17-02	7-8-02	6-17-02	6-17-02	7-8-02	7-8-02
Rating Date	7 DAE	14 DA-D	14 DA-B	14 DA-B	14 DA-B	21 DAP	42 DAP	14 DA-B	21 DAP	42 DAP	21 DAP	21 DAP	21 DAP	42 DAP
Trt-Eval Interval														

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code														
17	CORNERSTONE	3	SL	0.375	LB AE/A	1	PT/A	7EPP	B	0	0	98	99	97	99	99	95	99	96	62	95	57	
17	AGH 02001	4.128	EC	0.258	LB A/A	0.5	PT/A	7EPP	B														
17	CLASS ACT NG	100	LIQ	2.5	% V/V	2.5	%V/V	7EPP	B														
17	PLACEMENT	100	LIQ	6.0	OZ/A	6	OZ/A	7EPP	B														
17	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	7DAP	C														
17	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	7DAP	C														
18	CORNERSTONE	3	SL	0.375	LB AE/A	1	PT/A	7EPP	B	0	0	96	97	98	99	99	96	99	99	70	87	33	
18	CLASS ACT NG	100	LIQ	2.5	% V/V	2.5	%V/V	7EPP	B														
18	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	7DAP	C														
18	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	7DAP	C														
19	TOUCHDOWN	3	SL	0.75	LB AE/A	1	QT/A	7EPP	B	0	0	99	99	99	96	86	98	88	37	27	92	32	
19	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	7EPP	B														
20	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	26	OZ/A	7EPP	B	0	0	96	99	99	99	96	98	96	42	23	95	69	
20	DEGREE EXTRA	4	L	3.0	LB A/A	3	QT/A	7EPP	B														
LSD (P=.05)										0.0	0.0	30.5	7.4	2.5	6.0	20.4	11.9	12.3	31.2	17.2	14.7	21.2	
Replicate F										0.000	0.000	2.701	0.080	0.560	0.053	1.008	2.599	0.562	2.721	2.684	0.784	0.314	
Replicate Prob(F)										1.0000	1.0000	0.0800	0.9228	0.5759	0.9481	0.3745	0.0875	0.5749	0.0787	0.0823	0.4636	0.7326	
Treatment F										0.000	0.000	7.851	79.076	650.104	137.715	19.064	27.585	26.441	6.147	26.796	22.682	14.912	
Treatment Prob(F)										1.0000	1.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	

Weed Code	AMATA	AMATA
Crop Code		
Rating Data Type	Control	Control
Rating Unit	Percent	Percent
Rating Date	6-17-02	7-8-02
Trt-Eval Interval	21 DAP	42 DAP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code		
1	NONTREATED									0	0
2	BASIS	75	WG	0.0155	LB A/A	0.33	OZ/A	28EPP	A	99	99
2	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	28EPP	A		
2	SALVO	5	EC	0.5	LB AE/A	12.8	OZ/A	28EPP	A		
2	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	28EPP	A		
2	STEADFAST	75	WG	0.0352	LB A/A	0.75	OZ/A	V3-V6	D		
2	CALLISTO	4	SC	0.047	LB A/A	1.5	OZ/A	V3-V6	D		
2	AATREX	90	WG	0.75	LB A/A	13.3	OZ/A	V3-V6	D		
2	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	V3-V6	D		
2	28% UAN	100	LIQ	4.0	% V/V	4	%V/V	V3-V6	D		
3	BASIS	75	WG	0.0234	LB A/A	0.5	OZ/A	28EPP	A	99	96
3	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	28EPP	A		
3	SALVO	5	EC	0.5	LB AE/A	12.8	OZ/A	28EPP	A		
3	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	28EPP	A		
3	STEADFAST	75	WG	0.0352	LB A/A	0.75	OZ/A	V3-V6	D		
3	CALLISTO	4	SC	0.047	LB A/A	1.5	OZ/A	V3-V6	D		
3	AATREX	90	WG	0.75	LB A/A	13.3	OZ/A	V3-V6	D		
3	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	V3-V6	D		
3	28% UAN	100	LIQ	4.0	% V/V	4	%V/V	V3-V6	D		
4	BASIS	75	WG	0.0352	LB A/A	0.75	OZ/A	28EPP	A	7	0
4	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	28EPP	A		
4	PRINCEP	90	WG	1.0	LB A/A	1.11	LB/A	28EPP	A		
4	SALVO	5	EC	0.5	LB AE/A	12.8	OZ/A	28EPP	A		
4	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	28EPP	A		
5	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	7EPP	B	83	70
5	AIM	2	EW	0.0078	LB A/A	0.5	OZ/A	7EPP	B		
5	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	7EPP	B		
6	GUARDSMAN MAX	5	L	2.656	LB A/A	4.25	PT/A	7EPP	B	85	73
6	AIM	2	EW	0.0078	LB A/A	0.5	OZ/A	7EPP	B		
6	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	7EPP	B		
7	BALANCE PRO	4	SC	0.094	LB A/A	3	OZ/A	7EPP	B	83	91
7	AIM	2	EW	0.0078	LB A/A	0.5	OZ/A	7EPP	B		
7	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	7EPP	B		
8	AXIOM	68	WG	0.808	LB A/A	19	OZ/A	7EPP	B	47	17
8	AIM	2	EW	0.0078	LB A/A	0.5	OZ/A	7EPP	B		
8	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	7EPP	B		

Weed Code	AMATA	AMATA
Crop Code		
Rating Data Type	Control	Control
Rating Unit	Percent	Percent
Rating Date	6-17-02	7-8-02
Trt-Eval Interval	21 DAP	42 DAP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code		
9	AXIOM	68	WG	0.723	LB A/A	17	OZ/A	7EPP	B	99	92
9	ROUNDUP ULTRA MAX	3.7	SL	0.578	LB AE/A	20	OZ/A	7EPP	B		
9	AMS	100	DRY	2.0	% W/W	2	%W/W	7EPP	B		
9	DISTINCT	70	WG	0.175	LB A/A	4	OZ/A	V3-V6	D		
9	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	V3-V6	D		
9	28% UAN	100	LIQ	2.5	% V/V	2.5	%V/V	V3-V6	D		
10	EPIC	58	WG	0.435	LB A/A	12	OZ/A	7EPP	B	99	85
10	AATREX	90	WG	1.25	LB A/A	1.39	LB/A	7EPP	B		
10	ROUNDUP ULTRA MAX	3.7	SL	0.578	LB AE/A	20	OZ/A	7EPP	B		
10	AMS	100	DRY	2.0	% W/W	2	%W/W	7EPP	B		
11	USA 2001	71.5	WG	0.536	LB A/A	12	OZ/A	7EPP	B	89	60
11	AATREX	90	WG	1.5	LB A/A	1.67	LB/A	7EPP	B		
11	ROUNDUP ULTRA MAX	3.7	SL	0.578	LB AE/A	20	OZ/A	7EPP	B		
11	AMS	100	DRY	2.0	% W/W	2	%W/W	7EPP	B		
12	AXIOM	68	WG	0.723	LB A/A	17	OZ/A	7EPP	B	99	96
12	AATREX	90	WG	2.0	LB A/A	2.22	LB/A	7EPP	B		
12	ROUNDUP ULTRA MAX	3.7	SL	0.578	LB AE/A	20	OZ/A	7EPP	B		
12	AMS	100	DRY	2.0	% W/W	2	%W/W	7EPP	B		
13	USA 2001	71.5	WG	0.67	LB A/A	15	OZ/A	7EPP	B	99	94
13	AATREX	90	WG	1.5	LB A/A	1.67	LB/A	7EPP	B		
13	ROUNDUP ULTRA MAX	3.7	SL	0.578	LB AE/A	20	OZ/A	7EPP	B		
13	AMS	100	DRY	2.0	% W/W	2	%W/W	7EPP	B		
14	AGH 02001	4.128	EC	0.258	LB A/A	0.5	PT/A	7EPP	B	99	99
14	PREFERENCE	100	LIQ	0.25	% V/V	0.25	%V/V	7EPP	B		
14	AMS	100	DRY	1.0	% W/W	1	%W/W	7EPP	B		
14	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	7DAP	C		
14	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	7DAP	C		
15	AGH 02001	4.128	EC	0.258	LB A/A	0.5	PT/A	7EPP	B	99	99
15	CLASS ACT NG	100	LIQ	2.5	% V/V	2.5	%V/V	7EPP	B		
15	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	7DAP	C		
15	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	7DAP	C		
16	CORNERSTONE	3	SL	0.375	LB AE/A	1	PT/A	7EPP	B	99	99
16	AGH 02001	4.128	EC	0.258	LB A/A	0.5	PT/A	7EPP	B		
16	CLASS ACT NG	100	LIQ	2.5	% V/V	2.5	%V/V	7EPP	B		
16	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	7DAP	C		
16	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	7DAP	C		

Weed Code	AMATA	AMATA
Crop Code		
Rating Data Type	Control	Control
Rating Unit	Percent	Percent
Rating Date	6-17-02	7-8-02
Trt-Eval Interval	21 DAP	42 DAP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code		
17	CORNERSTONE	3	SL	0.375	LB AE/A	1	PT/A	7EPP	B	99	99
17	AGH 02001	4.128	EC	0.258	LB A/A	0.5	PT/A	7EPP	B		
17	CLASS ACT NG	100	LIQ	2.5	% V/V	2.5	%V/V	7EPP	B		
17	PLACEMENT	100	LIQ	6.0	OZ/A	6	OZ/A	7EPP	B		
17	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	7DAP	C		
17	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	7DAP	C		
18	CORNERSTONE	3	SL	0.375	LB AE/A	1	PT/A	7EPP	B	99	99
18	CLASS ACT NG	100	LIQ	2.5	% V/V	2.5	%V/V	7EPP	B		
18	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	7DAP	C		
18	PRIME OIL COC	100	LIQ	1.0	% V/V	1	%V/V	7DAP	C		
19	TOUCHDOWN	3	SL	0.75	LB AE/A	1	QT/A	7EPP	B	91	40
19	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	7EPP	B		
20	ROUNDUP ULTRA MAX	3.7	SL	0.75	LB AE/A	26	OZ/A	7EPP	B	99	99
20	DEGREE EXTRA	4	L	3.0	LB A/A	3	QT/A	7EPP	B		
LSD (P=.05)										14.0	30.5
Replicate F										1.889	1.597
Replicate Prob(F)										0.1651	0.2158
Treatment F										37.520	10.180
Treatment Prob(F)										0.0001	0.0001

General Burndown and Residual Herbicides in No-Till Corn.

Project Code: 02-2A-E110

Location: Belleville Research Center

Trial Comments

1. Protocol: FMC (5-8); Bayer (9-13); Agrilience (14-18); DuPont (2-4).
2. DA-B = days after 7EPP application. DAE = days after emergence. DAP = days after planting. DA-D = days after V3-V6 application.
3. 14 DA-B was also 2 days after planting and 41 days after 28EPP application.
7 DAE was also 50, 23, 4, and 1 days after 28EPP, 7EPP, 7DAP, and V3-V6 applications, respectively.
21 DAP was also 60, 33, 14, and 11 days after 28EPP, 7EPP, 7DAP, and V3-V6 applications, respectively.
14 DA-D was also 63, 36, and 17 days after 28EPP, 7EPP, and 7DAP applications, respectively.
42 DAP was also 81, 54, 35, and 32 days after 28EPP, 7EPP, 7DAP, and V3-V6 applications, respectively.
4. Planned rating, necrosis at 7 DA 14EPP, was not possible as the application and planting were delayed due to wet soil conditions, winter annual weeds were dying naturally by May 22.