

Southern Illinois University

Wilbur-Ellis No-Till Corn Burndown Programs.

Trial ID: 13-11A-E120 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Trial Status: F one-year/final Initiation Date: 5-13-13		Trial Location
City: Belleville State/Prov.: Illinois IL Postal Code: 62221	Country: USA	

Objectives: Evaluate and compare adjuvants with alternative herbicides for burndown applications in corn.

Study Director: Bryan Young Organization: Southern Illinois University Address: 1205 Lincoln Drive - AG 176 - MC 4415 City+State/Prov: Carbondale IL Postal Code: 62901 Country: USA	Title: Professor Phone No.: 618-453-7679 Mobile No.: 618-713-6471 E-mail: bgyoung@siu.edu	Contacts
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Crop 1: ZEAMD Zea mays indentata Dent corn Variety: DKC 63-33 BBCH Scale: BCOR Description: SS RIB	Crop Description
Planting Rate, Unit: 28000 S/A Depth, Unit: 1.5 IN Row Spacing, Unit: 30 IN	Planting Date: 6-15-13 Planting Method: SEEDED

Pest 1 Type: W Code: HORPU Hordeum pusillum Nutt. Common Name: barley, little	Pest Description
Pest 2 Type: W Code: SENGL Senecio glabellus Poir. Common Name: groundsel, cressleaf	
Pest 3 Type: W Code: STEME Stellaria media (L.) Vill. Common Name: chickweed, common	
Pest 4 Type: W Code: AMBTR Ambrosia trifida L. Common Name: ragweed, giant	
Pest 5 Type: W Code: PANDI Panicum dichotomiflorum Michx. Common Name: panicum, fall	
Pest 6 Type: W Code: CYPES Cyperus esculentus L. Common Name: nutsedge, yellow	

Treated Plot Width: 7.5 FT Total Plot Width: 10 FT Treated Plot Length: 31 FT Total Plot Length: 31 FT	Site and Design Site Type: FIELD Experimental Unit: 1 PLOT Tillage Type: NOTILL no-till Study Design: RACOB L Randomized Complete Block (RCB)						
Replications: 4 Untreated Arrangement: INCLUDED single control randomized in each block							
<table border="1"> <thead> <tr> <th>No.</th> <th>Previous Crop</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>GLXMA</td> <td>2012</td> </tr> </tbody> </table>	No.	Previous Crop	Year	1.	GLXMA	2012	
No.	Previous Crop	Year					
1.	GLXMA	2012					

<table border="1"> <thead> <tr> <th>No.</th> <th>Maintenance Product Name</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>N 150 LB/A, P2O5 0 LB/A, K2O 100 LB/A</td> </tr> </tbody> </table>	No.	Maintenance Product Name	1.	N 150 LB/A, P2O5 0 LB/A, K2O 100 LB/A	Maintenance
No.	Maintenance Product Name				
1.	N 150 LB/A, P2O5 0 LB/A, K2O 100 LB/A				

% OM: 2.9 Texture: SIL silt loam pH: 6.8 Soil Name: Pierron CEC: 9	Soil Description									
<table border="1"> <thead> <tr> <th>Element</th> <th>Quantity</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>P1</td> <td>72</td> <td>lb/A</td> </tr> <tr> <td>K</td> <td>345</td> <td>lb/A</td> </tr> </tbody> </table>	Element	Quantity	Unit	P1	72	lb/A	K	345	lb/A	Additional Measured Elements
Element	Quantity	Unit								
P1	72	lb/A								
K	345	lb/A								

Overall Moisture Conditions: ABONOR Closest Weather Station: ICN - Belleville IL	Moisture and Weather Conditions Distance, Unit: 0.5 MI
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No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	4-7-13					7	DAY	34	82	F
2.	4-10-13	1.4	IN	RAIN	rain	2	DAY			
3.	4-14-13					7	DAY	31	82	F
4.	4-16-13	1.05	IN	RAIN	rain	2	DAY			
5.	4-18-13	5.2	IN	RAIN	rain	1	DAY			
6.	4-21-13					7	DAY	35	72	F
7.	4-23-13	1.35	IN	RAIN	rain	2	DAY			
8.	4-27-13	0.3	IN	RAIN	rain	2	DAY			
9.	4-28-13					7	DAY	41	83	F
10.	5-3-13	3.07	IN	RAIN	rain	4	DAY			
11.	5-5-13					7	DAY	46	80	F
12.	5-9-13	0.35	IN	RAIN	rain	2	DAY			
13.	5-12-13					7	DAY	39	92	F
14.	5-16-13	0.55	IN	RAIN	rain	2	DAY			
15.	5-19-13					7	DAY	45	88	F
16.	5-20-13	0.67	IN	RAIN	rain	2	DAY			
17.	5-26-13					7	DAY	56	86	F
18.	5-27-13	1.23	IN	RAIN	rain	2	DAY			
19.	5-30-13	0.51	IN	RAIN	rain	3	DAY			
20.	5-31-13	3.46	IN	RAIN	rain	2	DAY			
21.	6-2-13					7	DAY	50	80	F
22.	6-9-13					7	DAY	59	94	F
23.	6-10-13	0.48	IN	RAIN	rain	2	DAY			
24.	6-16-13					7	DAY	61	90	F
25.	6-17-13	2.16	IN	RAIN	rain	3	DAY			
26.	6-23-13					7	DAY	64	92	F
27.	6-23-13	5.33	IN	RAIN	rain	2	DAY			
28.	6-26-13	0.46	IN	RAIN	rain	1	DAY			
29.	6-29-13	0.19	IN	RAIN	rain	2	DAY			
30.	6-30-13					7	DAY	61	86	F

Application Description

	A
Application Date:	5-13-13
Appl. Start Time:	12:00
Appl. Stop Time:	13:00
Application Method:	Spray
Application Timing:	14EPP
Application Placement:	BROFOL
Applied By:	RFK
Air Temperature, Unit:	66 F
% Relative Humidity:	33
Wind Velocity, Unit:	1 MPH
Wind Direction:	S
Dew Presence (Y/N):	N
Soil Temperature, Unit:	60 F
Soil Moisture:	ABONOR
% Cloud Cover:	0
Next Moisture Occurred On:	5-16-13
Time to Next Moisture, Unit:	3 DAY

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	ZEAMD
Stage Scale Used:	DESC
Stage Majority, Percent:	NA

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	A
Pest 1 Code, Type, Scale:	HORPU W
Stage Majority, Percent:	6
Stage Minimum, Percent:	5
Stage Maximum, Percent:	6
Height, Unit:	12 IN
Height Minimum, Maximum:	10 12
Density, Unit:	3 FT2
Pest 2 Code, Type, Scale:	SENGL W
Stage Majority, Percent:	10+
Stage Minimum, Percent:	10
Stage Maximum, Percent:	10+
Height, Unit:	20 IN
Height Minimum, Maximum:	12 40
Density, Unit:	0.1 FT2
Pest 3 Code, Type, Scale:	STEME W
Stage Majority, Percent:	10+
Stage Minimum, Percent:	10
Stage Maximum, Percent:	10+
Height, Unit:	4 IN
Height Minimum, Maximum:	2 6
Density, Unit:	1 FT2
Pest 4 Code, Type, Scale:	AMBTR W
Stage Majority, Percent:	6
Stage Minimum, Percent:	5
Stage Maximum, Percent:	6
Height, Unit:	4 IN
Height Minimum, Maximum:	3 4
Density, Unit:	0.01 FT2
Pest 5 Code, Type, Scale:	PANDI W
Stage Majority, Percent:	NA
Pest 6 Code, Type, Scale:	CYPES W
Stage Majority, Percent:	NA

Application Equipment

	A
Appl. Equipment:	CO2 sprayer
Equipment Type:	BACSPR
Operation Pressure, Unit:	30 PSI
Nozzle Type:	XR
Nozzle Size:	8002
Boom Length, Unit:	7.5 FT
Spray Volume, Unit:	17 GPA

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								HORPU	HORPU	SENGL	STEME	AMBTR	AMBTR	AMBTR		
								5-27-13 Control Percent	6-10-13 Control Percent	5-27-13 Control Percent	5-27-13 Control Percent	5-27-13 Control Percent	6-10-13 Control Percent	6-24-13 Control Percent		
								14 DA-A	28 DA-A	14 DA-A	14 DA-A	14 DA-A	28 DA-A	42 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code							
1	LUMAX EZ WE1442-1	3.764 100	SE SL	1.41 40	lb ai/a fl oz/a	3 40	pt/a fl oz/a	14EPP A 14EPP A		6 de	99 a	99 a	99 a	90 a	81 a	71 ab
2	LUMAX EZ WE1258-1	3.764 100	SE SL	1.41 1	lb ai/a pt/a	3 1	pt/a pt/a	14EPP A 14EPP A		13 d	99 a	99 a	99 a	90 a	86 a	73 ab
3	LUMAX EZ WE1177-1	3.764 100	SE SL	1.41 8	lb ai/a fl oz/a	3 8	pt/a fl oz/a	14EPP A 14EPP A		13 d	99 a	99 a	99 a	90 a	91 a	75 a
4	LUMAX EZ WE1095-1	3.764 100	SE SL	1.41 10	lb ai/a fl oz/a	3 10	pt/a fl oz/a	14EPP A 14EPP A		6 de	99 a	99 a	99 a	90 a	88 a	78 a
5	ROUNDUP POWERMAX BASE CAMP AMINE 4 AMS WE1442-1	4.5 3.8 100 100	SL EC SG SL	0.28 0.356 1.02 40	lb ae/a lb ae/a % w/w fl oz/a	8 0.75 8.5 40	fl oz/a pt/a lb/100 gal fl oz/a	14EPP A 14EPP A 14EPP A 14EPP A		99 a	99 a	99 a	99 a	0 c	0 c	23 d
6	ROUNDUP POWERMAX AATREX NINE-O BASE CAMP AMINE 4 AMS WE1442-1	4.5 90 3.8 100 100	SL WG EC SG SL	0.28 0.315 0.356 1.02 40	lb ae/a lb ai/a lb ae/a % w/w fl oz/a	8 0.35 0.75 8.5 40	fl oz/a lb/a pt/a lb/100 gal fl oz/a	14EPP A 14EPP A 14EPP A 14EPP A 14EPP A		96 ab	99 a	99 a	99 a	90 a	54 b	53 bc
7	ROUNDUP POWERMAX BASE CAMP AMINE 4 AMS WE1258-1	4.5 3.8 100 100	SL EC SG SL	0.28 0.356 1.02 1	lb ae/a lb ae/a % w/w pt/a	8 0.75 8.5 1	fl oz/a pt/a lb/100 gal pt/a	14EPP A 14EPP A 14EPP A 14EPP A		97 ab	99 a	99 a	99 a	0 c	0 c	13 de
8	ROUNDUP POWERMAX AATREX NINE-O BASE CAMP AMINE 4 AMS WE1258-1	4.5 90 3.8 100 100	SL WG EC SG SL	0.28 0.315 0.356 1.02 1	lb ae/a lb ai/a lb ae/a % w/w pt/a	8 0.35 0.75 8.5 1	fl oz/a lb/a pt/a lb/100 gal pt/a	14EPP A 14EPP A 14EPP A 14EPP A 14EPP A		62 c	99 a	99 a	99 a	90 a	20 c	45 c
9	ROUNDUP POWERMAX BASE CAMP AMINE 4 AMS WE1177-1	4.5 3.8 100 100	SL EC SG SL	0.28 0.356 1.02 8	lb ae/a lb ae/a % w/w fl oz/a	8 0.75 8.5 8	fl oz/a pt/a lb/100 gal fl oz/a	14EPP A 14EPP A 14EPP A 14EPP A		92 ab	99 a	99 a	99 a	0 c	0 c	20 de
10	ROUNDUP POWERMAX AATREX NINE-O BASE CAMP AMINE 4 AMS WE1177-1	4.5 90 3.8 100 100	SL WG EC SG SL	0.28 0.315 0.356 1.02 8	lb ae/a lb ai/a lb ae/a % w/w fl oz/a	8 0.35 0.75 8.5 8	fl oz/a lb/a pt/a lb/100 gal fl oz/a	14EPP A 14EPP A 14EPP A 14EPP A 14EPP A		85 b	99 a	99 a	99 a	90 a	76 a	60 abc
11	ROUNDUP POWERMAX BASE CAMP AMINE 4 AMS WE1095-1	4.5 3.8 100 100	SL EC SG SL	0.28 0.356 1.02 10	lb ae/a lb ae/a % w/w fl oz/a	8 0.75 8.5 10	fl oz/a pt/a lb/100 gal fl oz/a	14EPP A 14EPP A 14EPP A 14EPP A		99 a	99 a	99 a	99 a	0 c	0 c	8 de
12	ROUNDUP POWERMAX AATREX NINE-O BASE CAMP AMINE 4 AMS WE1095-1	4.5 90 3.8 100 100	SL WG EC SG SL	0.28 0.315 0.356 1.02 10	lb ae/a lb ai/a lb ae/a % w/w fl oz/a	8 0.35 0.75 8.5 10	fl oz/a lb/a pt/a lb/100 gal fl oz/a	14EPP A 14EPP A 14EPP A 14EPP A 14EPP A		94 ab	99 a	99 a	99 a	90 a	76 a	50 c
13	ROUNDUP POWERMAX BASE CAMP AMINE 4 AMS WE1279-2	4.5 3.8 100 100	SL EC SG SL	0.28 0.356 1.02 5	lb ae/a lb ae/a % w/w fl oz/a	8 0.75 8.5 5	fl oz/a pt/a lb/100 gal fl oz/a	14EPP A 14EPP A 14EPP A 14EPP A		99 a	99 a	99 a	99 a	0 c	0 c	10 de

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Pest Code		HORPU	HORPU	SENGL	STEME	AMBTR	AMBTR	AMBTR
Crop Code		5-27-13	6-10-13	5-27-13	5-27-13	5-27-13	6-10-13	6-24-13
Rating Date		Control	Control	Control	Control	Control	Control	Control
Rating Type		Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit		14 DA-A	28 DA-A	14 DA-A	14 DA-A	14 DA-A	28 DA-A	42 DA-A
Rating Timing								
Trt-Eval Interval								
Trt Treatment	Form Form Rate Other Other Growth Appl							
No. Name	Conc Type Rate Unit Rate Rate Unit Stage Code							
14 ROUNDUP POWERMAX	4.5 SL 0.28 lb ae/a 8 fl oz/a 14EPP A	95 ab	99 a	99 a	99 a	45 b	73 ab	63 abc
AATREX NINE-O	90 WG 0.315 lb ai/a 0.35 lb/a 14EPP A							
BASE CAMP AMINE 4	3.8 EC 0.356 lb ae/a 0.75 pt/a 14EPP A							
AMS	100 SG 1.02 % w/w 8.5 lb/100 gal 14EPP A							
WE1279-2	100 SL 5 fl oz/a 5 fl oz/a 14EPP A							
15 NONTREATED		0 e	0 a	0 a	0 a	0 c	0 c	0 e
LSD (P=.05)		12.3	0.0	0.0	0.0	19.2	20.5	20.4
Standard Deviation		8.6	0.0	0.0	0.0	13.4	14.4	14.2
CV		13.52	0.0	0.0	0.0	26.31	33.4	33.45
Replicate F		7.667	0.000	0.000	0.000	1.000	2.505	3.156
Replicate Prob(F)		0.0003	1.0000	1.0000	1.0000	0.4023	0.0721	0.0345
Treatment F		95.945	0.000	0.000	0.000	44.143	31.116	15.165
Treatment Prob(F)		0.0001	1.0000	1.0000	1.0000	0.0001	0.0001	0.0001

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval										PANDI 6-10-13 Control Percent 28 DA-A	PANDI 6-24-13 Control Percent 42 DA-A	CYPES 6-24-13 Control Percent 42 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code			
1	LUMAX EZ WE1442-1	3.764 100	SE SL	1.41 40	lb ai/a fl oz/a	3 40	pt/a fl oz/a	14EPP 14EPP	A A	90 a	43 a-d	5 a
2	LUMAX EZ WE1258-1	3.764 100	SE SL	1.41 1	lb ai/a pt/a	3 1	pt/a pt/a	14EPP 14EPP	A A	89 ab	45 a-d	8 a
3	LUMAX EZ WE1177-1	3.764 100	SE SL	1.41 8	lb ai/a fl oz/a	3 8	pt/a fl oz/a	14EPP 14EPP	A A	88 ab	50 abc	5 a
4	LUMAX EZ WE1095-1	3.764 100	SE SL	1.41 10	lb ai/a fl oz/a	3 10	pt/a fl oz/a	14EPP 14EPP	A A	90 a	60 a	13 a
5	ROUNDUP POWERMAX BASE CAMP AMINE 4 AMS WE1442-1	4.5 3.8 100 100	SL EC SG SL	0.28 0.356 1.02 40	lb ae/a lb ae/a % w/w fl oz/a	8 0.75 8.5 40	fl oz/a pt/a lb/100 gal fl oz/a	14EPP 14EPP 14EPP 14EPP	A A A A	0 d	0 f	0 a
6	ROUNDUP POWERMAX AATREX NINE-O BASE CAMP AMINE 4 AMS WE1442-1	4.5 90 3.8 100 100	SL WG EC SG SL	0.28 0.315 0.356 1.02 40	lb ae/a lb ai/a lb ae/a % w/w fl oz/a	8 0.35 0.75 8.5 40	fl oz/a lb/a pt/a lb/100 gal fl oz/a	14EPP 14EPP 14EPP 14EPP 14EPP	A A A A A	85 ab	43 a-d	10 a
7	ROUNDUP POWERMAX BASE CAMP AMINE 4 AMS WE1258-1	4.5 3.8 100 100	SL EC SG SL	0.28 0.356 1.02 1	lb ae/a lb ae/a % w/w pt/a	8 0.75 8.5 1	fl oz/a pt/a lb/100 gal pt/a	14EPP 14EPP 14EPP 14EPP	A A A A	0 d	13 ef	13 a
8	ROUNDUP POWERMAX AATREX NINE-O BASE CAMP AMINE 4 AMS WE1258-1	4.5 90 3.8 100 100	SL WG EC SG SL	0.28 0.315 0.356 1.02 1	lb ae/a lb ai/a lb ae/a % w/w pt/a	8 0.35 0.75 8.5 1	fl oz/a lb/a pt/a lb/100 gal pt/a	14EPP 14EPP 14EPP 14EPP 14EPP	A A A A A	58 c	35 cd	13 a
9	ROUNDUP POWERMAX BASE CAMP AMINE 4 AMS WE1177-1	4.5 3.8 100 100	SL EC SG SL	0.28 0.356 1.02 8	lb ae/a lb ae/a % w/w fl oz/a	8 0.75 8.5 8	fl oz/a pt/a lb/100 gal fl oz/a	14EPP 14EPP 14EPP 14EPP	A A A A	0 d	0 f	0 a
10	ROUNDUP POWERMAX AATREX NINE-O BASE CAMP AMINE 4 AMS WE1177-1	4.5 90 3.8 100 100	SL WG EC SG SL	0.28 0.315 0.356 1.02 8	lb ae/a lb ai/a lb ae/a % w/w fl oz/a	8 0.35 0.75 8.5 8	fl oz/a lb/a pt/a lb/100 gal fl oz/a	14EPP 14EPP 14EPP 14EPP 14EPP	A A A A A	78 ab	55 ab	5 a
11	ROUNDUP POWERMAX BASE CAMP AMINE 4 AMS WE1095-1	4.5 3.8 100 100	SL EC SG SL	0.28 0.356 1.02 10	lb ae/a lb ae/a % w/w fl oz/a	8 0.75 8.5 10	fl oz/a pt/a lb/100 gal fl oz/a	14EPP 14EPP 14EPP 14EPP	A A A A	0 d	8 f	0 a
12	ROUNDUP POWERMAX AATREX NINE-O BASE CAMP AMINE 4 AMS WE1095-1	4.5 90 3.8 100 100	SL WG EC SG SL	0.28 0.315 0.356 1.02 10	lb ae/a lb ai/a lb ae/a % w/w fl oz/a	8 0.35 0.75 8.5 10	fl oz/a lb/a pt/a lb/100 gal fl oz/a	14EPP 14EPP 14EPP 14EPP 14EPP	A A A A A	60 c	28 de	5 a
13	ROUNDUP POWERMAX BASE CAMP AMINE 4 AMS WE1279-2	4.5 3.8 100 100	SL EC SG SL	0.28 0.356 1.02 5	lb ae/a lb ae/a % w/w fl oz/a	8 0.75 8.5 5	fl oz/a pt/a lb/100 gal fl oz/a	14EPP 14EPP 14EPP 14EPP	A A A A	0 d	0 f	0 a

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Pest Code										PANDI	PANDI	CYPES
Crop Code										6-10-13	6-24-13	6-24-13
Rating Date										Control	Control	Control
Rating Type										Percent	Percent	Percent
Rating Unit												
Rating Timing												
Trt-Eval Interval										28 DA-A	42 DA-A	42 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate	Unit	Growth Stage	Appl Code		
14	ROUNDUP POWERMAX	4.5	SL	0.28	lb ae/a		8	fl oz/a	14EPP A		75 b	40 bcd
	AATREX NINE-O	90	WG	0.315	lb ai/a		0.35	lb/a	14EPP A			0 a
	BASE CAMP AMINE 4	3.8	EC	0.356	lb ae/a		0.75	pt/a	14EPP A			
	AMS	100	SG	1.02	% w/w		8.5	lb/100 gal	14EPP A			
	WE1279-2	100	SL		5 fl oz/a		5	fl oz/a	14EPP A			
15	NONTREATED										0 d	0 f
	LSD (P=.05)										13.9	18.7
	Standard Deviation										9.8	13.1
	CV										20.58	47.14
	Replicate F										0.331	1.636
	Replicate Prob(F)										0.8029	0.1954
	Treatment F										71.325	11.512
	Treatment Prob(F)										0.0001	0.0001

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Trial Comments

1. Protocol: Wilbur-Ellis (1027-1302).
2. Ratings: WC 14, 28, and 42 DA-A.
3. Possible blanket application after the last evaluation, if desired.
4. Yield not requested.
5. On 6-10-13 at 28 DA-A SENGL and STEME were senescing naturally in the nontreated plots and could no longer be evaluated.
On 6-24-13 at 42 DA-A HORPU was senescing naturally in the nontreated plots and could no longer be evaluated.
Emergence of summer annual weeds was reduced by a dense mat of winter annual weeds in some plots.
6. Not harvested.