

Annual Bluegrass Control in Wheat.

Trial ID: 13-ARC-9 Location: Agronomy Res. Center Trial Year: 2013
Investigator: Bryan Young

Trial Status: F one-year/final Initiation Date: 10-29-12 Completion Date: 4-9-13	
Trial Location	City: Carbondale Country: USA State/Prov.: Illinois IL Postal Code: 62901

Objectives:
Evaluate the benefit of other herbicides used with Finesse for control of annual bluegrass in winter wheat.

Contacts	
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

Crop Description	
Crop 1: TRZAW Triticum aestivum (winter) Winter wheat Variety: P25R40 BBCH Scale: BCER	Planting Date: 11-5-12 Planting Method: SEEDED
Planting Rate, Unit: 1.4 millionS/A Depth, Unit: 0.75 IN Row Spacing, Unit: 7.5 IN Soil Moisture: NORMAL Seed Bed: FRITRA	

Pest Description	
Pest 1 Type: W Code: POAAN Poa annua L. Common Name: bluegrass, annual	

Site and Design							
Treated Plot Width: 6.67 FT Total Plot Width: 10 FT Treated Plot Length: 30 FT Total Plot Length: 30 FT	Site Type: FIELD Experimental Unit: 1 PLOT Tillage Type: NOTILL no-till Study Design: RACOB� Randomized Complete Block (RCB)						
Replications: 3 Untreated Arrangement: INCLUDED single control randomized in each block							
<table border="1" style="width: 100%;"> <tr> <th>No.</th> <th>Previous Crop</th> <th>Year</th> </tr> <tr> <td>1.</td> <td>NON-CROP</td> <td>2011</td> </tr> </table>		No.	Previous Crop	Year	1.	NON-CROP	2011
No.	Previous Crop	Year					
1.	NON-CROP	2011					

Maintenance	
No.	Maintenance Product Name
1.	Fall N 25 LB/A, P2O5 0 LB/A, K2O 0 LB/A
2.	Spring N 123 LB/A, P2O5 46 LB/A, K2O 120 LB/A

Soil Description										
% OM: 1.6 Texture: SIL silt loam pH: 6.2 Soil Name: Stoy CEC: 7.4										
Additional Measured Elements										
<table border="1" style="width: 100%;"> <tr> <th>Element</th> <th>Quantity</th> <th>Unit</th> </tr> <tr> <td>P1</td> <td>66</td> <td>lb/A</td> </tr> <tr> <td>K</td> <td>274</td> <td>lb/A</td> </tr> </table>	Element	Quantity	Unit	P1	66	lb/A	K	274	lb/A	
Element	Quantity	Unit								
P1	66	lb/A								
K	274	lb/A								

Moisture and Weather Conditions	
Overall Moisture Conditions: NORMAL Closest Weather Station: ICN - Carbondale IL	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.	10-1-12					7	DAY	36	80	F
2.	10-1-12	1.07	IN	RAIN	rain	5	DAY			
3.	10-8-12					7	DAY	32	79	F
4.	10-11-12	1.01	IN	RAIN	rain	4	DAY			
5.	10-15-12					7	DAY	45	79	F
6.	10-17-12	0.99	IN	RAIN	rain	4	DAY			
7.	10-22-12					7	DAY	34	81	F
8.	10-25-12	0.7	IN	RAIN	rain	2	DAY			
9.	10-29-12					7	DAY	28	62	F
10.	11-5-12					7	DAY	29	71	F
11.	11-5-12	0.09	IN	RAIN	rain	3	DAY			
12.	11-11-12	1.49	IN	RAIN	rain	2	DAY			
13.	11-12-12					7	DAY	24	62	F
14.	11-19-12					7	DAY	24	66	F
15.	11-22-12	0.11	IN	RAIN	rain	5	DAY			
16.	11-26-12					7	DAY	21	66	F
17.	12-3-12					7	DAY	31	68	F
18.	12-4-12	0.26	IN	RAIN	rain	4	DAY			
19.	12-9-12	1.09	IN	RAIN	rain	8	DAY			
20.	12-10-12					7	DAY	23	59	F
21.	12-17-12					7	DAY	19	63	F
22.	12-20-12	0.35	IN	RAIN	rain	4	DAY			
23.	12-24-12					7	DAY	8	47	F
24.	12-28-12	0.83	IN	RAIN	rain	6	DAY			
25.	12-31-12					7	DAY	13	40	F
26.	1-7-13					7	DAY	19	64	F
27.	1-10-13	0.57	IN	RAIN	rain	3	DAY			
28.	1-12-13	2.66	IN	RAIN	rain	2	DAY			
29.	1-14-13					7	DAY	22	55	F
30.	1-21-13					7	DAY	16	52	F
31.	1-28-13					7	DAY	13	70	F
32.	1-29-13	2.17	IN	RAIN	rain	4	DAY			
33.	2-4-13					7	DAY	27	66	F
34.	2-7-13	0.25	IN	RAIN	rain	5	DAY			
35.	2-10-13	0.54	IN	RAIN	rain	5	DAY			
36.	2-11-13					7	DAY	24	60	F
37.	2-18-13					7	DAY	23	57	F
38.	2-18-13	1.35	IN	RAIN	rain	4	DAY			
39.	2-25-13					7	DAY	25	54	F
40.	2-26-13	0.67	IN	RAIN	rain	4	DAY			
41.	3-1-13	0.2	IN	RAIN	rain	5	DAY			
42.	3-4-13					7	DAY	26	68	F
43.	3-10-13	0.49	IN	RAIN	rain	2	DAY			
44.	3-11-13					7	DAY	24	74	F
45.	3-17-13	2.87	IN	RAIN	rain	3	DAY			
46.	3-18-13					7	DAY	23	57	F
47.	3-24-13	0.34	IN	RAIN	rain	2	DAY			
48.	3-25-13					7	DAY	24	68	F
49.	3-30-13	0.54	IN	RAIN	rain	2	DAY			
50.	4-1-13					7	DAY	26	75	F
51.	4-8-13					7	DAY	32	81	F
52.	4-10-13	0.85	IN	RAIN	rain	2	DAY			
53.	4-15-13					7	DAY	32	83	F
54.	4-18-13	2.16	IN	RAIN	rain	1	DAY			
55.	4-22-13					7	DAY	32	72	F
56.	4-24-13	0.55	IN	RAIN	rain	2	DAY			
57.	4-27-13	0.37	IN	RAIN	rain	2	DAY			
58.	4-29-13					7	DAY	41	81	F

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Application Description

	A	B	C
Application Date:	10-30-12	11-6-12	11-30-12
Appl. Start Time:	7:00	7:30	6:45
Application Method:	Spray	Spray	Spray
Application Timing:	7DBP	PRE	SPK-2L
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	JRK	JRK	JRK
Air Temperature, Unit:	44 F	43 F	45 F
% Relative Humidity:	44	66	47
Wind Velocity, Unit:	7 MPH	0 MPH	4 MPH
Wind Direction:	NW		SW
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	45 F	48 F	41 F
Soil Moisture:	NORMAL	ABONOR	NORMAL
% Cloud Cover:	80	90	5
Next Moisture Occurred On:	11-5-13	11-6-12	12-4-12
Time to Next Moisture, Unit:	6 DAY	1 HR	4 DAY

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	TRZAW	TRZAW	TRZAW
Stage Scale Used:	DESC	DESC	DESC
Stage Majority, Percent:	NA	NA	FK1
Stage Minimum, Percent:			SPIKE
Stage Maximum, Percent:			FK1
Height, Unit:			2.5 IN
Height Minimum, Maximum:			1 2.5

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	POAAN W	POAAN W	POAAN W
Stage Majority, Percent:	NA	NA	NA

Application Equipment

	A	B	C
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer
Equipment Type:	BACSPR	BACSPR	BACSPR
Operation Pressure, Unit:	30 PSI	30 PSI	30 PSI
Nozzle Type:	XR	XR	XR
Nozzle Size:	8002	8002	8002
Boom Length, Unit:	6.67 FT	6.67 FT	6.67 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								TRZAW 12-3-12 Injury Percent	TRZAW 1-7-13 Injury Percent	TRZAW 4-9-13 Injury Percent	POAAN 4-9-13 Control Percent
								28 DAP	63 DAP	Mid-Spring	Mid-Spring
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Unit	Stage Stage	Appl Code	
1	FINESSE	75 WG		0.0234 lb ai/a		0.5 oz/a		PRE	B		
2	ZIDUA	85 WG		0.08 lb ai/a		1.5 oz/a		PRE	B		
3	FINESSE ZIDUA	75 WG 85 WG		0.0234 lb ai/a 0.053 lb ai/a		0.5 oz/a 1.0 oz/a		PRE PRE	B B		
4	FINESSE ZIDUA	75 WG 85 WG		0.0234 lb ai/a 0.08 lb ai/a		0.5 oz/a 1.5 oz/a		PRE PRE	B B		
5	AXIOM	68 WG		0.34 lb ai/a		8 oz/a		SPK-2L	C		
6	FINESSE AXIOM	75 WG 68 WG		0.0188 lb ai/a 0.255 lb ai/a		0.4 oz/a 6 oz/a		SPK-2L SPK-2L	C C		
7	FINESSE AXIOM	75 WG 68 WG		0.0188 lb ai/a 0.34 lb ai/a		0.4 oz/a 8 oz/a		SPK-2L SPK-2L	C C		
8	VALOR SX	51 WG		0.064 lb ai/a		2 oz/a		7DBP	A		
9	FINESSE VALOR SX	75 WG 51 WG		0.0234 lb ai/a 0.064 lb ai/a		0.5 oz/a 2 oz/a		7DBP 7DBP	A A		
10	NONTREATED										
	LSD (P=.05)							0.0	0.0	0.0	0.0
	Standard Deviation							0.0	0.0	0.0	0.0
	CV							0.0	0.0	0.0	0.0
	Replicate F							0.000	0.000	0.000	0.000
	Replicate Prob(F)							1.0000	1.0000	1.0000	1.0000
	Treatment F							0.000	0.000	0.000	0.000
	Treatment Prob(F)							1.0000	1.0000	1.0000	1.0000

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.

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Trial Comments

1. Protocol: DuPont (USA-13-263).
2. CI/WC at 14, 28, and 56 DAP and Mid-spring.
3. Blanket burndown application of Roundup WeatherMax (32 floz/A) was applied at 7DBP on 10-30-12.
4. There was not enough new emergence of POAAN following the burndown application to make weed control evaluations.
The planned 14 DAP evaluation could not be made due to slow emergence due to cold soil.
The planned 56 DAP evaluation was delayed due to snow cover.
5. There was no observable wheat injury at any time.
6. Not harvested.