

Southern Illinois University

Broad Spectrum Grass and Broadleaf Weed Control with PowerFlex in Winter Wheat.

Trial ID: 12-20B-S110

Location: Belleville Res. Center

Investigator: Bryan Young

General Trial Information

Study Director: Bryan Young
Investigator: Bryan Young **Title:** Professor

Trial Status: F - one-year/final
Initiation Date: 10-12-11

Trial Location

City: Belleville
State/Prov.: IL
Postal Code: 62221
Country: USA

Objectives:

To evaluate the efficacy of PowerFlex and commercial standards on winter annual grasses and broadleaves in winter wheat when applied in the fall or spring in the Ohio valley.

Personnel

Study Director: Bryan Young
Investigator: Bryan Young **Title:** Professor
Affiliation: Southern Illinois University
Address: 1205 Lincoln Drive - AG 176 - MC 4415
Location: Carbondale IL
Postal Code: 62901 **E-mail:** bgyoung@siu.edu
Phone No.: 618-453-7679 **Mobile No.:** 618-713-6471

Crop Description

Crop 1: TRZAW Triticum aestivum (winter) Winter wheat
Variety: P25R62
BBCH Scale: BCER **Planting Date:** 10-12-11
Planting Method: SEEDED **Rate, Unit:** 1.4 millionS/A
Depth, Unit: 1 IN
Row Spacing, Unit: 7.5 IN

Pest Description

Pest 1 Type: W **Code:** LAMAM - Lamium amplexicaule L.
Common Name: henbit
Pest 2 Type: W **Code:** CAPBP - Capsella bursa-pastoris(L.)M
Common Name: shepherdspurse

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 28 FT
Plot Area, Unit: 280 FT2 **Tillage Type:** NOTILL
Replications: 4 **Study Design:** RACOBL Randomized Complete Block (RCB)

No.	Previous Crop	Year
1.	GLXMA	2011

Maintenance

No.	Maintenance Treatment Name
1.	Fall: N 30 LB/A, P205 0 LB/A, K20 0 LB/A
2.	Spring: N 85 LB/A, P205 0 LB/A, K20 0 LB/A

Soil Description

% OM: 1.8 **Texture:** SIL SILT LOAM
pH: 6.7 **Soil Name:** BETHALTO
CEC: 12

Additional Measured Elements

Element	Quantity	Unit
P1	54	LB/A
K	286	LB/A

Moisture and Weather Conditions

Overall Moisture Conditions: BELNOR below normal
Closest Weather Station: ICN - Belleville IL **Distance, Unit:** 0.5 MI

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Application Description

	A	B
Application Date:	11-30-11	3-13-12
Time of Day:	14:00	10:00
Application Method:	Spray	Spray
Application Timing:	FALL	SPRING
Application Placement:	BROFOL	BROFOL
Applied By:	RFK	RFK
Air Temperature, Unit:	45 F	64 F
% Relative Humidity:	50	88
Wind Velocity, Unit:	3 MPH	0 MPH
Wind Direction:	NW	S
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	42 F	60 F
Soil Moisture:	ABONOR	NORMAL
% Cloud Cover:	0	0
Next Rain Occurred On:	12-4-11	3-16-12

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	TRZAW BCER	TRZAW BCER
Stage Scale Used:	DESC	DESC
Stage Majority, Percent:	F2	F4
Stage Minimum, Percent:	F2	F4
Stage Maximum, Percent:	F3	F5
Height, Unit:	2 IN	5 IN
Height Minimum, Maximum:	2 3	4 6

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	LAMAM W DESC	LAMAM W DESC
Stage Majority, Percent:	10+	10+
Height, Unit:	1 IN	3 IN
Height Minimum, Maximum:	0 1	2 3
Density, Unit:	0.1 FT2	0.1 FT2
Pest 2 Code, Type, Scale:	CAPBP W DESC	CAPBP W DESC
Stage Majority, Percent:	10+	10+
Height, Unit:	1 IN	4 IN
Height Minimum, Maximum:	0 1	2 5
Density, Unit:	0.01 FT2	0.001 FT2

Application Equipment

	A	B
Appl. Equipment:	CO2 sprayer	CO2 sprayer
Equipment Type:	BACSPR	BACSPR
Operation Pressure, Unit:	30 PSI	30 PSI
Nozzle Type:	XR	XR
Nozzle Size:	8002	8002
Boom Length, Unit:	7.5 FT	7.5 FT
Spray Volume, Unit:	15 GPA	15 GPA

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Pest Code Crop Code Rating Date								TRZAW 6-5-12	TRZAW 6-5-12	TRZAW 6-5-12		
Rating Type Rating Unit Rating Timing Trt-Eval Interval								Moisture Percent	Test wt. lb/bu	Yield bu/A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	PYROXSULAM ACTIVATOR 90 AMS	13.13	WG	0.0164	lb ai/a	2 oz/a		FALL	A	13.2 a	57.8 a	67 a
		100	SL	0.5 %	v/v	0.5 % v/v		FALL	A			
		100	SG	1.52	lb/a	1.52 lb/a		FALL	A			
2	HARMONY EXTRA NIS (ACTIVATOR 90) AMS	50	SG	0.0234	lb ai/a	0.75 oz/a		FALL	A	13.1 a	57.8 a	66 a
		100	SL	0.5 %	v/v	0.5 % v/v		FALL	A			
		100	SG	1.52	lb/a	1.52 lb/a		FALL	A			
3	OLYMPUS FLEX ACTIVATOR 90 AMS	11.25	SG	0.0223	lb ai/a	3.17 oz/a		FALL	A	13.3 a	57.7 a	67 a
		100	SL	0.5 %	v/v	0.5 % v/v		FALL	A			
		100	SG	1.52	lb/a	1.52 lb/a		FALL	A			
4	FINESSE NIS (ACTIVATOR 90)	75	WG	0.0188	lb ai/a	0.4 oz/a		FALL	A	13.1 a	57.8 a	67 a
		100	SL	0.5 %	v/v	0.5 % v/v		FALL	A			
5	PYROXSULAM NIS (ACTIVATOR 90) AMS	13.13	WG	0.0164	lb ai/a	2 oz/a		SPRING B		13.2 a	57.8 a	62 a
		100	SL	0.5 %	v/v	0.5 % v/v		SPRING B				
		100	SG	1.52	lb/a	1.52 lb/a		SPRING B				
6	HARMONY EXTRA NIS (ACTIVATOR 90) AMS	50	SG	0.0234	lb ai/a	0.75 oz/a		SPRING B		13.1 a	57.8 a	64 a
		100	SL	0.5 %	v/v	0.5 % v/v		SPRING B				
		100	SG	1.52	lb/a	1.52 lb/a		SPRING B				
7	OLYMPUS FLEX NIS (ACTIVATOR 90) AMS	11.25	SG	0.0223	lb ai/a	3.17 oz/a		SPRING B		13.3 a	57.7 a	66 a
		100	SL	0.5 %	v/v	0.5 % v/v		SPRING B				
		100	SG	1.52	lb/a	1.52 lb/a		SPRING B				
8	FINESSE NIS (ACTIVATOR 90)	75	WG	0.0188	lb ai/a	0.4 oz/a		SPRING B		13.1 a	57.8 a	64 a
		100	SL	0.5 %	v/v	0.5 % v/v		SPRING B				
9	NONTREATED									13.3 a	57.7 a	63 a
LSD (P=.05)								0.26	0.15	5.5		
Standard Deviation								0.18	0.10	3.8		
CV								1.38	0.18	5.81		
Replicate F								2.790	4.584	0.952		
Replicate Prob(F)								0.0623	0.0113	0.4314		
Treatment F								0.884	1.416	0.973		
Treatment Prob(F)								0.5443	0.2401	0.4800		

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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Pest Code										TRZAW	TRZAW	TRZAW	TRZAW
Crop Code										12-3-11	12-7-11	12-14-11	12-28-11
Rating Date										Injury	Injury	Injury	Injury
Rating Type										Percent	Percent	Percent	Percent
Rating Unit										3 DA-A	7 DA-A	14 DA-A	28 DA-A
Rating Timing													
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	PYROXSULAM ACTIVATOR 90 AMS	13.13	WG	0.0164 lb ai/a		2 oz/a		FALL	A	0 a	0 a	0 a	0 a
		100	SL	0.5 % v/v		0.5 % v/v		FALL	A				
		100	SG	1.52 lb/a		1.52 lb/a		FALL	A				
2	HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	50	SG	0.0234 lb ai/a		0.75 oz/a		FALL	A	0 a	0 a	0 a	0 a
		100	SL	0.5 % v/v		0.5 % v/v		FALL	A				
		100	SG	1.52 lb/a		1.52 lb/a		FALL	A				
3	OLYMPUS FLEX ACTIVATOR 90 AMS	11.25	SG	0.0223 lb ai/a		3.17 oz/a		FALL	A	0 a	0 a	0 a	0 a
		100	SL	0.5 % v/v		0.5 % v/v		FALL	A				
		100	SG	1.52 lb/a		1.52 lb/a		FALL	A				
4	FINESSE NIS (ACTIVATOR 90)	75	WG	0.0188 lb ai/a		0.4 oz/a		FALL	A	0 a	0 a	0 a	0 a
		100	SL	0.5 % v/v		0.5 % v/v		FALL	A				
5	PYROXSULAM NIS (ACTIVATOR 90) AMS	13.13	WG	0.0164 lb ai/a		2 oz/a		SPRING B					
		100	SL	0.5 % v/v		0.5 % v/v		SPRING B					
		100	SG	1.52 lb/a		1.52 lb/a		SPRING B					
6	HARMONY EXTRA SG NIS (ACTIVATOR 90) AMS	50	SG	0.0234 lb ai/a		0.75 oz/a		SPRING B					
		100	SL	0.5 % v/v		0.5 % v/v		SPRING B					
		100	SG	1.52 lb/a		1.52 lb/a		SPRING B					
7	OLYMPUS FLEX NIS (ACTIVATOR 90) AMS	11.25	SG	0.0223 lb ai/a		3.17 oz/a		SPRING B					
		100	SL	0.5 % v/v		0.5 % v/v		SPRING B					
		100	SG	1.52 lb/a		1.52 lb/a		SPRING B					
8	FINESSE NIS (ACTIVATOR 90)	75	WG	0.0188 lb ai/a		0.4 oz/a		SPRING B					
		100	SL	0.5 % v/v		0.5 % v/v		SPRING B					
9	NONTREATED									0 a	0 a	0 a	0 a
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

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Pest Code										TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW
Crop Code										3-16-12	3-20-12	3-20-12	3-27-12	4-10-12	4-24-12
Rating Date										Injury	Injury	Injury	Injury	Injury	Injury
Rating Type										Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit										3 DA-B	7 DA-B	14 DA GU	14 DA-B	28 DA-B	42 DA-B
Rating Timing															
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	PYROXSULAM ACTIVATOR 90 AMS	13.13	WG SL SG	0.0164 0.5 % 1.52 lb/a	lb ai/a v/v lb/a	2 0.5 % 1.52 oz/a v/v lb/a	oz/a v/v lb/a	FALL FALL FALL	A A A			0 a	0 a	0 a	0 a
2	HARMONY EXTRA NIS (ACTIVATOR 90) AMS	50	SG SL SG	0.0234 0.5 % 1.52 lb/a	lb ai/a v/v lb/a	0.75 0.5 % 1.52 oz/a v/v lb/a	oz/a v/v lb/a	FALL FALL FALL	A A A			0 a	0 a	0 a	0 a
3	OLYMPUS FLEX ACTIVATOR 90 AMS	11.25	SG SL SG	0.0223 0.5 % 1.52 lb/a	lb ai/a v/v lb/a	3.17 0.5 % 1.52 oz/a v/v lb/a	oz/a v/v lb/a	FALL FALL FALL	A A A			0 a	0 a	0 a	0 a
4	FINESSE NIS (ACTIVATOR 90)	75	WG SL	0.0188 0.5 %	lb ai/a v/v	0.4 0.5 % oz/a v/v	oz/a v/v	FALL FALL	A A			0 a	0 a	0 a	0 a
5	PYROXSULAM NIS (ACTIVATOR 90) AMS	13.13	WG SL SG	0.0164 0.5 % 1.52 lb/a	lb ai/a v/v lb/a	2 0.5 % 1.52 oz/a v/v lb/a	oz/a v/v lb/a	SPRING SPRING SPRING	B B B	0 a	8 a		0 a	0 a	0 a
6	HARMONY EXTRA NIS (ACTIVATOR 90) AMS	50	SG SL SG	0.0234 0.5 % 1.52 lb/a	lb ai/a v/v lb/a	0.75 0.5 % 1.52 oz/a v/v lb/a	oz/a v/v lb/a	SPRING SPRING SPRING	B B B	0 a	0 b		0 a	0 a	0 a
7	OLYMPUS FLEX NIS (ACTIVATOR 90) AMS	11.25	SG SL SG	0.0223 0.5 % 1.52 lb/a	lb ai/a v/v lb/a	3.17 0.5 % 1.52 oz/a v/v lb/a	oz/a v/v lb/a	SPRING SPRING SPRING	B B B	0 a	9 a		0 a	0 a	0 a
8	FINESSE NIS (ACTIVATOR 90)	75	WG SL	0.0188 0.5 %	lb ai/a v/v	0.4 0.5 % oz/a v/v	oz/a v/v	SPRING SPRING	B B	0 a	0 b		0 a	0 a	0 a
9	NONTREATED									0 a	0 b	0 a	0 a	0 a	0 a
LSD (P=.05)										0.0	2.8	0.0	0.0	0.0	0.0
Standard Deviation										0.0	1.8	0.0	0.0	0.0	0.0
CV										0.0	56.18	0.0	0.0	0.0	0.0
Replicate F										0.000	0.375	0.000	0.000	0.000	0.000
Replicate Prob(F)										1.0000	0.7727	1.0000	1.0000	1.0000	1.0000
Treatment F										0.000	24.000	0.000	0.000	0.000	0.000
Treatment Prob(F)										1.0000	0.0001	1.0000	1.0000	1.0000	1.0000

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Trial ID: 12-20B-S110

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code Crop Code Rating Date								TRZAW 4-24-12	TRZAW 4-24-12	TRZAW 5-25-12		
Rating Type Rating Unit Rating Timing Trt-Eval Interval								HEADINJ Percent	MATDEL Percent	MATDEL Percent		
								42 DA-B	42 DA-B			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	PYROXSULAM ACTIVATOR 90 AMS	13.13	WG SL SG	0.0164 lb ai/a 0.5 % v/v 1.52 lb/a	ai/a v/v lb/a	2 oz/a 0.5 % v/v 1.52 lb/a	ai/a v/v lb/a	FALL FALL FALL	A A A	0 a	0 a	0 a
2	HARMONY EXTRA NIS (ACTIVATOR 90) AMS	50	SG SL SG	0.0234 lb ai/a 0.5 % v/v 1.52 lb/a	ai/a v/v lb/a	0.75 oz/a 0.5 % v/v 1.52 lb/a	ai/a v/v lb/a	FALL FALL FALL	A A A	0 a	0 a	0 a
3	OLYMPUS FLEX ACTIVATOR 90 AMS	11.25	SG SL SG	0.0223 lb ai/a 0.5 % v/v 1.52 lb/a	ai/a v/v lb/a	3.17 oz/a 0.5 % v/v 1.52 lb/a	ai/a v/v lb/a	FALL FALL FALL	A A A	0 a	0 a	0 a
4	FINESSE NIS (ACTIVATOR 90)	75	WG SL	0.0188 lb ai/a 0.5 % v/v	ai/a v/v	0.4 oz/a 0.5 % v/v	ai/a v/v	FALL FALL	A A	0 a	0 a	0 a
5	PYROXSULAM NIS (ACTIVATOR 90) AMS	13.13	WG SL SG	0.0164 lb ai/a 0.5 % v/v 1.52 lb/a	ai/a v/v lb/a	2 oz/a 0.5 % v/v 1.52 lb/a	ai/a v/v lb/a	SPRING B SPRING B SPRING B		0 a	0 a	0 a
6	HARMONY EXTRA NIS (ACTIVATOR 90) AMS	50	SG SL SG	0.0234 lb ai/a 0.5 % v/v 1.52 lb/a	ai/a v/v lb/a	0.75 oz/a 0.5 % v/v 1.52 lb/a	ai/a v/v lb/a	SPRING B SPRING B SPRING B		0 a	0 a	0 a
7	OLYMPUS FLEX NIS (ACTIVATOR 90) AMS	11.25	SG SL SG	0.0223 lb ai/a 0.5 % v/v 1.52 lb/a	ai/a v/v lb/a	3.17 oz/a 0.5 % v/v 1.52 lb/a	ai/a v/v lb/a	SPRING B SPRING B SPRING B		0 a	0 a	0 a
8	FINESSE NIS (ACTIVATOR 90)	75	WG SL	0.0188 lb ai/a 0.5 % v/v	ai/a v/v	0.4 oz/a 0.5 % v/v	ai/a v/v	SPRING B SPRING B		0 a	0 a	0 a
9	NONTREATED								0 a	0 a	0 a	
LSD (P=.05)								0.0	0.0	0.0		
Standard Deviation								0.0	0.0	0.0		
CV								0.0	0.0	0.0		
Replicate F								0.000	0.000	0.000		
Replicate Prob(F)								1.0000	1.0000	1.0000		
Treatment F								0.000	0.000	0.000		
Treatment Prob(F)								1.0000	1.0000	1.0000		

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										LAMAM	LAMAM	LAMAM	LAMAM	LAMAM
										12-14-11	12-28-11	3-27-12	4-10-12	4-24-12
										Control	Control	Control	Control	Control
										Percent	Percent	Percent	Percent	Percent
										14 DA-A	28 DA-A	14 DA-B	28 DA-B	42 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	PYROXSULAM ACTIVATOR 90 AMS	13.13	WG SL SG	0.0164 0.5 % 1.52 lb/a	lb ai/a v/v lb/a	2 0.5 % 1.52 lb/a	oz/a v/v lb/a	FALL FALL FALL	A A A	48 a	75 a	98 a	99 a	99 a
2	HARMONY EXTRA NIS (ACTIVATOR 90) AMS	50	SG SL SG	0.0234 0.5 % 1.52 lb/a	lb ai/a v/v lb/a	0.75 0.5 % 1.52 lb/a	oz/a v/v lb/a	FALL FALL FALL	A A A	50 a	75 a	99 a	99 a	99 a
3	OLYMPUS FLEX ACTIVATOR 90 AMS	11.25	SG SL SG	0.0223 0.5 % 1.52 lb/a	lb ai/a v/v lb/a	3.17 0.5 % 1.52 lb/a	oz/a v/v lb/a	FALL FALL FALL	A A A	48 a	75 a	86 bc	99 a	99 a
4	FINESSE NIS (ACTIVATOR 90)	75	WG SL	0.0188 0.5 %	lb ai/a v/v	0.4 0.5 %	oz/a v/v	FALL FALL	A A	48 a	75 a	99 a	99 a	99 a
5	PYROXSULAM NIS (ACTIVATOR 90) AMS	13.13	WG SL SG	0.0164 0.5 % 1.52 lb/a	lb ai/a v/v lb/a	2 0.5 % 1.52 lb/a	oz/a v/v lb/a	SPRING SPRING SPRING	B B B			90 b	99 a	99 a
6	HARMONY EXTRA NIS (ACTIVATOR 90) AMS	50	SG SL SG	0.0234 0.5 % 1.52 lb/a	lb ai/a v/v lb/a	0.75 0.5 % 1.52 lb/a	oz/a v/v lb/a	SPRING SPRING SPRING	B B B			90 b	99 a	99 a
7	OLYMPUS FLEX NIS (ACTIVATOR 90) AMS	11.25	SG SL SG	0.0223 0.5 % 1.52 lb/a	lb ai/a v/v lb/a	3.17 0.5 % 1.52 lb/a	oz/a v/v lb/a	SPRING SPRING SPRING	B B B			90 b	99 a	99 a
8	FINESSE NIS (ACTIVATOR 90)	75	WG SL	0.0188 0.5 %	lb ai/a v/v	0.4 0.5 %	oz/a v/v	SPRING SPRING	B B			85 c	99 a	99 a
9	NONTREATED									0 b	0 b	0 d	0 b	0 b
LSD (P=.05)										5.8	0.0	4.6	0.0	0.0
Standard Deviation										3.8	0.0	3.1	0.0	0.0
CV										9.78	0.0	3.81	0.0	0.0
Replicate F										1.294	0.000	1.598	0.000	0.000
Replicate Prob(F)										0.3213	1.0000	0.2159	1.0000	1.0000
Treatment F										131.118	0.000	398.821	0.000	0.000
Treatment Prob(F)										0.0001	1.0000	0.0001	1.0000	1.0000

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Pest Code									CAPBP	CAPBP	CAPBP	CAPBP	CAPBP	
Crop Code									12-14-11	12-28-11	3-27-12	4-10-12	4-24-12	
Rating Date									Control	Control	Control	Control	Control	
Rating Type									Percent	Percent	Percent	Percent	Percent	
Rating Unit									14 DA-A	28 DA-A	14 DA-B	28 DA-B	42 DA-B	
Rating Timing														
Trt-Eval Interval														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	PYROXSULAM ACTIVATOR 90 AMS	13.13 100 100	WG SL SG	0.0164 0.5 % 1.52	lb ai/a v/v lb/a	2 0.5 % 1.52	oz/a v/v lb/a	FALL FALL FALL	A A A	50 a	75 a	99 a	99 a	99 a
2	HARMONY EXTRA NIS (ACTIVATOR 90) AMS	50 100 100	SG SL SG	0.0234 0.5 % 1.52	lb ai/a v/v lb/a	0.75 0.5 % 1.52	oz/a v/v lb/a	FALL FALL FALL	A A A	50 a	75 a	99 a	99 a	99 a
3	OLYMPUS FLEX ACTIVATOR 90 AMS	11.25 100 100	SG SL SG	0.0223 0.5 % 1.52	lb ai/a v/v lb/a	3.17 0.5 % 1.52	oz/a v/v lb/a	FALL FALL FALL	A A A	50 a	75 a	99 a	99 a	99 a
4	FINESSE NIS (ACTIVATOR 90)	75 100	WG SL	0.0188 0.5 %	lb ai/a v/v	0.4 0.5 %	oz/a v/v	FALL FALL	A A	50 a	75 a	99 a	99 a	99 a
5	PYROXSULAM NIS (ACTIVATOR 90) AMS	13.13 100 100	WG SL SG	0.0164 0.5 % 1.52	lb ai/a v/v lb/a	2 0.5 % 1.52	oz/a v/v lb/a	SPRING B SPRING B SPRING B				90 b	99 a	99 a
6	HARMONY EXTRA NIS (ACTIVATOR 90) AMS	50 100 100	SG SL SG	0.0234 0.5 % 1.52	lb ai/a v/v lb/a	0.75 0.5 % 1.52	oz/a v/v lb/a	SPRING B SPRING B SPRING B				90 b	99 a	99 a
7	OLYMPUS FLEX NIS (ACTIVATOR 90) AMS	11.25 100 100	SG SL SG	0.0223 0.5 % 1.52	lb ai/a v/v lb/a	3.17 0.5 % 1.52	oz/a v/v lb/a	SPRING B SPRING B SPRING B				90 b	99 a	99 a
8	FINESSE NIS (ACTIVATOR 90)	75 100	WG SL	0.0188 0.5 %	lb ai/a v/v	0.4 0.5 %	oz/a v/v	SPRING B SPRING B				88 c	99 a	99 a
9	NONTREATED									0 b	0 b	0 d	0 b	0 b
LSD (P=.05)										0.0	0.0	1.4	0.0	0.0
Standard Deviation										0.0	0.0	1.0	0.0	0.0
CV										0.0	0.0	1.15	0.0	0.0
Replicate F										0.000	0.000	1.000	0.000	0.000
Replicate Prob(F)										1.0000	1.0000	0.4098	1.0000	1.0000
Treatment F										0.000	0.000	4360.800	0.000	0.000
Treatment Prob(F)										1.0000	1.0000	0.0001	1.0000	1.0000

Broad Spectrum Grass and Broadleaf Weed Control with PowerFlex in Winter Wheat.

Trial ID: 12-20B-S110

Location: Belleville Res. Center

Investigator: Bryan Young

Trial Comments

1. Protocol: Dow (PowerflexHL).
2. Ratings: CI/Growth Inhibition/Chlorosis 3 DA-A, 1,2,4 WA-A, 2 weeks after spring green-up, 3 DA-B, 1, 2, 4, and 6 WA-B, malformation and/or reduction in head size or fill, delayed maturity. WC 2 and 4 WA-A and rate all plots 2, 4, and 6 WA-B.
3. Yield.
4. Application timings: FALL and SPRING applications should be timed similar to commercial applications and be when weeds are less than 2 inch height or rosettes.
5. 14 DA GU = 14 days after spring greenup.
Crop injury on 3-20-12 at 14 days after spring greenup was height reduction only.
HEADINJ = Head injury including malformation, size reduction and fill.
MATDEL = Delayed maturity.
6. Harvested 6-5-12, 4.375 ft by 25 ft.