

Olympus Flex in Wheat.

Trial ID: 11-ARC-9-M

Location: Agronomy Res. Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu  
 City State Zip Country: Carbondale IL 62901 USA  
 Trial Status: SETUP Initiation Date: 10-7-10

Objectives: Evaluate the efficacy of Olympus and Olympus Flex on winter annual grass and broadleaf weeds in winter wheat.

Crop 1: TRZAW Winter wheat Variety: P25R47  
 Planting Method: SEEDS Planting Date: 10-7-10  
 Rate, Unit: 1.4 mil. S/A Depth, Unit: 1 IN  
 Row Spacing, Unit: 7.5 IN

Pest 1 Type: W Code: LAMAM Lamium amplexicaule L. henbit  
 Pest 2 Type: W Code: POAAN Poa annua L. bluegrass, annual

Plot Width, Unit: 15 FT Site Type: FIELD  
 Plot Length, Unit: 30 FT Tillage Type: NO-TILL  
 Replications: 3 Study Design: Randomized Complete Block

Prior Crops, Year  
 1. ZEAMD 2010

Field Prep./Maintenance: Fall: N 27 LB/A, P205 69 LB/A, K20 0 LB/A as DAP  
 Spring: N 95 LB/A, P205 0 LB/A, K20 0 LB/A as 32% UAN

% OM: 1.6 Texture: SILT LOAM  
 pH: 6.2 Soil Name: STGY  
 CEC: 7.4 Fert. Level: P1: 66 LB/A, K: 274 LB/A

Application Description

	A	B	C
Application Date:	10-29-10	12-2-10	4-5-11
Time of Day:	11:45 am	12:00 pm	11:00 am
Application Method:	Spray	Spray	Spray
Application Timing:	SPK-2LF	FALL	SPRING
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	JK	NVH	NRJ
Air Temperature, Unit:	53 F	39 F	50 F
% Relative Humidity:	34	54	50
Wind Velocity, Unit:	3 MPH	1 MPH	4 MPH
Wind Direction:	NW	NE	W
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	47 F	38 F	44 F
Soil Moisture:	NORMAL	ABONOR	NORMAL
% Cloud Cover:	5	80	0
	10/29/2010	12/02/2010	04/05/2011
Crop stage at application:	FK 1	FK 1	FK 3
Height Min, Max (inch):	1 4	2.5 5	4 8

Pest Stage At Each Application

	A	B	C
Application Date:	10-29-10	12-2-10	4-5-11
Weed Code:	LAMAM	LAMAM	LAMAM
Stage Majority (leaves):	5	12	40
Stage Min, Max:	2 12	4 30	25 50
Height Majority:	2 IN	3 IN	4.5 IN
Height Min, Max:	1 3	2 5	3 6
Density, Unit:	4 FT2	4 FT2	3 FT2
Weed Code:	POAAN	POAAN	POAAN
Stage Majority (leaves):	3	8	
Stage Min, Max:	1 6	3 10	
Height Majority:	1 IN	1.5 IN	
Height Min, Max:	0.5 2	1 2	
Density, Unit:	0.02 FT2	4 FT2	

Application Equipment

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

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Pest Code	TRZAW	TRZAW	LAMAM	POAAN	TRZAW	LAMAM	POAAN	TRZAW
Crop Code	11-12-10	11-19-10	11-19-10	11-19-10	12-17-10	12-17-10	12-17-10	12-24-10
Rating Date	Injury	Injury	Control	Control	Injury	Control	Control	Injury
Rating Data Type	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit	14 DAA	21 DAA	21 DAA	21 DAA	14 DAB	49 DAA	49 DAA	21 DAB
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	NONTREATED													0.0 a			0.0 a
2	OLYMPUS	70	WG	0.0394	lb ai/a	0.9	oz/a	FALL	B					0.0 a			0.0 a
2	ACTIVATOR 90	100	SL	0.5	% v/v	0.5	% v/v	FALL	B								
3	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	FALL	B					0.0 a			0.0 a
3	ACTIVATOR 90	100	SL	0.5	% v/v	0.5	% v/v	FALL	B								
3	28% UAN	100	SL	4	pt/a	4	pt/a	FALL	B								
4	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	FALL	B					0.0 a			0.0 a
4	HUSKIE	2.06	EC	0.177	lb ai/a	11	oz/a	FALL	B								
4	ACTIVATOR 90	100	SL	0.5	% v/v	0.5	% v/v	FALL	B								
5	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	SPRING	C								
6	HUSKIE	2.06	EC	0.177	lb ai/a	11	oz/a	SPRING	C								
6	ACTIVATOR 90	100	SL	0.5	% v/v	0.5	% v/v	SPRING	C								
7	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	FALL	B					0.0 a			0.0 a
7	ACTIVATOR 90	100	SL	0.5	% v/v	0.5	% v/v	FALL	B								
7	28% UAN	100	SL	4	pt/a	4	pt/a	FALL	B								
7	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	oz/a	SPRING	C								
7	ACTIVATOR 90	100	SL	0.5	% v/v	0.5	% v/v	SPRING	C								
8	AXIOM	68	WG	0.34	lb ai/a	8	oz/a	SPK-2LF	A	0.0	0.0	25.0	8.3		25.0	11.7	
8	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	SPRING	C								
8	ACTIVATOR 90	100	SL	0.5	% v/v	0.5	% v/v	SPRING	C								
8	28% UAN	100	SL	4	pt/a	4	pt/a	SPRING	C								
9	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	SPRING	C								
9	ACTIVATOR 90	100	SL	0.5	% v/v	0.5	% v/v	SPRING	C								
9	28% UAN	100	SL	4	pt/a	4	pt/a	SPRING	C								
LSD (P=.05)														0.00			0.00
Replicate F														0.000			0.000
Replicate Prob(F)														1.0000			1.0000
Treatment F														0.000			0.000
Treatment Prob(F)														1.0000			1.0000

Means followed by same letter do not significantly differ (P=.05, LSD)

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Pest Code	LAMAM	POAAN	LAMAM	POAAN
Crop Code				
Rating Date	12-24-10	12-24-10	1-21-11	1-21-11
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Timing	21 DAB	21 DAB	49 DAB	49 DAB
Trt-Eval Interval				

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	NONTREATED									0.0 c	0.0 b	0.0 c	0.0 b
2	OLYMPUS	70	WG	0.0394	lb ai/a	0.9	oz/a	FALL	B	20.0 a	15.0 a	20.0 a	15.0 a
2	ACTIVATOR 90	100	SL	0.5	% v/v	0.5	% v/v	FALL	B				
3	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	FALL	B	10.0 b	10.0 a	10.0 b	10.0 a
3	ACTIVATOR 90	100	SL	0.5	% v/v	0.5	% v/v	FALL	B				
3	28% UAN	100	SL	4	pt/a	4	pt/a	FALL	B				
4	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	FALL	B	16.7 a	16.7 a	16.7 a	16.7 a
4	HUSKIE	2.06	EC	0.177	lb ai/a	11	oz/a	FALL	B				
4	ACTIVATOR 90	100	SL	0.5	% v/v	0.5	% v/v	FALL	B				
5	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	SPRING	C				
6	HUSKIE	2.06	EC	0.177	lb ai/a	11	oz/a	SPRING	C				
6	ACTIVATOR 90	100	SL	0.5	% v/v	0.5	% v/v	SPRING	C				
7	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	FALL	B	16.7 a	16.7 a	16.7 a	16.7 a
7	ACTIVATOR 90	100	SL	0.5	% v/v	0.5	% v/v	FALL	B				
7	28% UAN	100	SL	4	pt/a	4	pt/a	FALL	B				
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7	ACTIVATOR 90	100	SL	0.5	% v/v	0.5	% v/v	SPRING	C				
8	AXIOM	68	WG	0.34	lb ai/a	8	oz/a	SPK-2LF	A				
8	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	SPRING	C				
8	ACTIVATOR 90	100	SL	0.5	% v/v	0.5	% v/v	SPRING	C				
8	28% UAN	100	SL	4	pt/a	4	pt/a	SPRING	C				
9	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	SPRING	C				
9	ACTIVATOR 90	100	SL	0.5	% v/v	0.5	% v/v	SPRING	C				
9	28% UAN	100	SL	4	pt/a	4	pt/a	SPRING	C				

LSD (P=.05)	6.32	7.59	6.32	7.59
Replicate F	1.926	0.103	1.926	0.103
Replicate Prob(F)	0.2076	0.9037	0.2076	0.9037
Treatment F	16.889	9.231	16.889	9.231
Treatment Prob(F)	0.0006	0.0043	0.0006	0.0043

Means followed by same letter do not significantly differ (P=.05, LSD)

## Trial Comments

1. Protocol: Bayer (EH1).
2. Ratings: CI at 14 and 21 DAT; WC at 21 and 49 (45-59) DAT and at crop maturity.

Spring Nitrogen applied 3/24/11 95 lbs N/A (32% UAN).