

Bayer ProTechPlus - Winter Wheat - 1.

Trial ID: 09-13-S120

Location: Belleville Res. Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu
 City State Zip Country: Belleville IL 62221 USA
 Trial Status: FINAL Initiation Date: 10-30-08

Objectives: Assess the value of several crop management/protection technologies for improved wheat production.

Crop 1: TRZAW Winter wheat Variety: See comments
 Planting Method: Seeded Planting Date: 10-30-08
 Rate, Unit: 1.3 mil. S/A Depth, Unit: 1.0 IN
 Row Spacing, Unit: 7.5 IN

Plot Width, Unit: 10 FT Site Type: FIELD
 Plot Length, Unit: 24 FT Tillage Type: REDUCED-TILL
 Replications: 6 Study Design: Randomized Complete Block

Prior Crops, Year
 1. GLXMA 2008

Field Prep./Maintenance: N 30 LB/A applied on 10-16-08 and N 85 LB/A applied on 01-29-09.

% OM: 2.3 Texture: SILT LOAM
 pH: 5.8 Soil Name: BETHALTO
 CEC: 13 Fert. Level: P1 79 LB/A, K 386 LB/A

	Application Description					
	A	B	C	D	E	F
Application Date:	04-08-09	04-08-09	05-04-09	05-11-09	04-22-09	
Time of Day:	10:00	10:00	11:30	13:00	16:00	
Application Method:	SEEDTRT Spray	Spray	Spray	Spray	Spray	
Application Timing:	2"W	BBCH30	BBCH39	BBCH61	SPGTHRESH	
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL	
Applied By:	RFK	RFK	RFK	RFK	RFK	
Air Temperature, Unit:	55 F	55 F	66 F	68 F	74 F	
% Relative Humidity:	50	50	62	60	38	
Wind Velocity, Unit:	3 MPH	3 MPH	3 MPH	0 MPH	3 MPH	
Soil Moisture:	ABONOR	ABONOR	ABONOR	ABONOR	ABONOR	
% Cloud Cover:	0	0	0	50	0	
	04-08-09	04-08-09	05-04-09	05-11-09	04-22-09	
Crop stage at application:	NA	NA 4-5	FK 4-5	FK 9	FK 10.5	FK 6-7
Height Min, Max (inch):		8 10	8 10	24 26	28 36	16 18

Pest Stage At Each Application
 Application Date: 04-08-09 04-08-09 05-04-09 05-11-09 04-22-09

	Application Equipment					
Appl. Equipment:	SEEDTRT	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	30 PSI	30 PSI	30 PSI	30 PSI	30 PSI	30 PSI
Nozzle Type:	Flat fan	Flat fan	Flat fan	Flat fan	Flat fan	Flat fan
Nozzle Size:	XR 8002	XR 8002	XR 8002	XR 8002	XR 8002	XR 8002
Boom Length, Unit:	10 FT	10 FT	10 FT	10 FT	10 FT	10 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA	15 GPA	15 GPA	15 GPA

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Pest Code
Crop Code
Rating Date
Rating Data Type
Rating Unit
Rating Timing
Trt-Eval Interval

P25R47	FS628	P25R47	FS628	P25R47	FS628
06-25-09	06-25-09	06-25-09	06-25-09	06-25-09	06-25-09
Moisture	Moisture	Test wt.	Test wt.	Yield	Yield
Percent	Percent	lb/bu	lb/bu	bu/A	bu/A

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	NO SEED TREATMENT									10.5 c	11.0 a	44.2 bc	44.9 b	78 c	77 c
1	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	2"W	B						
1	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B						
1	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B						
1	28% UAN	100	SL	2	qt/a	2	qt/a	2"W	B						
2	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	10.3 c	10.8 a	42.3 c	47.4 ab	82 bc	80 c
2	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	2"W	B						
2	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B						
2	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B						
2	28% UAN	100	SL	2	qt/a	2	qt/a	2"W	B						
3	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	10.8 bc	11.1 a	46.5 ab	48.1 ab	83 bc	82 bc
3	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	2"W	B						
3	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B						
3	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B						
3	28% UAN	100	SL	2	qt/a	2	qt/a	2"W	B						
3	BAYTHROID XL	1	EC	0.0156	lb ai/a	2	fl oz/a	SPGTHRESH	F						
4	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	10.9 abc	11.4 a	44.2 bc	46.8 ab	83 b	87 ab
4	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	2"W	B						
4	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B						
4	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B						
4	28% UAN	100	SL	2	qt/a	2	qt/a	2"W	B						
4	STRATEGO	2.08	EC	0.163	lb ai/a	10	fl oz/a	BBCH39	D						
4	INDUCE	100	SL	0.125	% v/v	0.125	% v/v	BBCH39	D						
4	BAYTHROID XL	1	EC	0.0156	lb ai/a	2	fl oz/a	SPGTHRESH	F						
5	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	10.7 bc	11.2 a	44.2 bc	49.8 a	86 b	87 ab
5	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	2"W	B						
5	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B						
5	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B						
5	28% UAN	100	SL	2	qt/a	2	qt/a	2"W	B						
5	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	BBCH39	D						
5	INDUCE	100	SL	0.125	% v/v	0.125	% v/v	BBCH39	D						
5	BAYTHROID XL	1	EC	0.0156	lb ai/a	2	fl oz/a	SPGTHRESH	F						
6	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	11.3 ab	11.2 a	47.8 ab	48.0 ab	94 a	93 a
6	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	2"W	B						
6	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B						
6	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B						
6	28% UAN	100	SL	2	qt/a	2	qt/a	2"W	B						
6	STRATEGO	2.08	EC	4	fl oz/a	4	fl oz/a	BBCH30	C						
6	INDUCE	100	SL	0.125	% v/v	0.125	% v/v	BBCH30	C						
6	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	BBCH61	E						
6	INDUCE	100	SL	0.125	% v/v	0.125	% v/v	BBCH61	E						
6	BAYTHROID XL	1	EC	0.0156	lb ai/a	2	fl oz/a	SPGTHRESH	F						
7	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	11.5 a	11.2 a	48.3 a	49.0 ab	94 a	89 a
7	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	2"W	B						
7	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B						
7	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B						
7	28% UAN	100	SL	2	qt/a	2	qt/a	2"W	B						
7	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	BBCH61	E						
7	INDUCE	100	SL	0.125	% v/v	0.125	% v/v	BBCH61	E						
7	BAYTHROID XL	1	EC	0.0156	lb ai/a	2	fl oz/a	SPGTHRESH	F						
LSD (P=.05)										0.68	0.66	3.73	4.39	5.1	5.7
Replicate F										0.369	0.108	0.323	0.171	0.925	0.691
Replicate Prob(F)										0.8660	0.9896	0.8949	0.9713	0.4783	0.6340
Treatment F										3.363	0.665	2.954	1.069	13.289	7.987
Treatment Prob(F)										0.0118	0.6783	0.0219	0.4027	0.0001	0.0001

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

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P25R47	FS628	P25R47	FS628
11-20-08	11-20-08	11-20-08	11-20-08
Plants	Plants	Vigor	Vigor
mil/A	mil/A	1-9	1-9
21 DAP	21 DAP	21 DAP	21 DAP

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	NO SEED TREATMENT									1.203	ab	1.225	a
1	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	2"W	B			1.0	a
1	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B				
1	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B				
1	28% UAN	100	SL	2	qt/a	2	qt/a	2"W	B				
2	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	1.200	ab	1.251	a
2	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	2"W	B			1.0	a
2	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B				
2	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B				
2	28% UAN	100	SL	2	qt/a	2	qt/a	2"W	B				
3	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	1.152	b	1.258	a
3	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	2"W	B			1.0	a
3	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B				
3	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B				
3	28% UAN	100	SL	2	qt/a	2	qt/a	2"W	B				
3	BAYTHROID XL	1	EC	0.0156	lb ai/a	2	fl oz/a	SPGTHRESH	F				
4	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	1.316	a	1.217	a
4	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	2"W	B			1.0	a
4	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B				
4	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B				
4	28% UAN	100	SL	2	qt/a	2	qt/a	2"W	B				
4	STRATEGO	2.08	EC	0.163	lb ai/a	10	fl oz/a	BBCH39	D				
4	INDUCE	100	SL	0.125	% v/v	0.125	% v/v	BBCH39	D				
4	BAYTHROID XL	1	EC	0.0156	lb ai/a	2	fl oz/a	SPGTHRESH	F				
5	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	1.227	ab	1.215	a
5	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	2"W	B			1.0	a
5	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B				
5	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B				
5	28% UAN	100	SL	2	qt/a	2	qt/a	2"W	B				
5	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	BBCH39	D				
5	INDUCE	100	SL	0.125	% v/v	0.125	% v/v	BBCH39	D				
5	BAYTHROID XL	1	EC	0.0156	lb ai/a	2	fl oz/a	SPGTHRESH	F				
6	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	1.179	b	1.278	a
6	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	2"W	B			1.0	a
6	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B				
6	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B				
6	28% UAN	100	SL	2	qt/a	2	qt/a	2"W	B				
6	STRATEGO	2.08	EC	4	fl oz/a	4	fl oz/a	BBCH30	C				
6	INDUCE	100	SL	0.125	% v/v	0.125	% v/v	BBCH30	C				
6	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	BBCH61	E				
6	INDUCE	100	SL	0.125	% v/v	0.125	% v/v	BBCH61	E				
6	BAYTHROID XL	1	EC	0.0156	lb ai/a	2	fl oz/a	SPGTHRESH	F				
7	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	1.205	ab	1.258	a
7	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	2"W	B			1.0	a
7	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B				
7	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B				
7	28% UAN	100	SL	2	qt/a	2	qt/a	2"W	B				
7	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	BBCH61	E				
7	INDUCE	100	SL	0.125	% v/v	0.125	% v/v	BBCH61	E				
7	BAYTHROID XL	1	EC	0.0156	lb ai/a	2	fl oz/a	SPGTHRESH	F				
LSD (P=.05)										0.1329		0.1254	
Replicate F										0.437		2.089	
Replicate Prob(F)										0.8190		0.0944	
Treatment F										1.269		0.314	
Treatment Prob(F)										0.3010		0.9249	

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

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Pest Code
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Rating Date
Rating Data Type
Rating Unit
Rating Timing
Trt-Eval Interval

P25R47	FS628	P25R47	FS628
11-20-08	11-20-08	05-06-09	05-06-09
Aphids	Aphids	Aphids	Aphids
1.0 sqft	1.0 sqft	1.0 sqft	1.0 sqft
21 DAP	21 DAP	14 DA-F	14 DA-F

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	NO SEED TREATMENT										0.0 a	0.0 a	1.0 a	0.9 a
1	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	2"W	B					
1	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B					
1	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B					
1	28% UAN	100	SL	2	qt/a	2	qt/a	2"W	B					
2	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A		0.0 a	0.0 a	0.6 b	0.8 a
2	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	2"W	B					
2	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B					
2	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B					
2	28% UAN	100	SL	2	qt/a	2	qt/a	2"W	B					
3	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A		0.0 a	0.0 a	0.0 c	0.0 b
3	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	2"W	B					
3	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B					
3	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B					
3	28% UAN	100	SL	2	qt/a	2	qt/a	2"W	B					
3	BAYTHROID XL	1	EC	0.0156	lb ai/a	2	fl oz/a	SPGTHRESH	F					
4	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A		0.0 a	0.0 a	0.0 c	0.0 b
4	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	2"W	B					
4	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B					
4	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B					
4	28% UAN	100	SL	2	qt/a	2	qt/a	2"W	B					
4	STRATEGO	2.08	EC	0.163	lb ai/a	10	fl oz/a	BBCH39	D					
4	INDUCE	100	SL	0.125	% v/v	0.125	% v/v	BBCH39	D					
4	BAYTHROID XL	1	EC	0.0156	lb ai/a	2	fl oz/a	SPGTHRESH	F					
5	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A		0.0 a	0.0 a	0.0 c	0.0 b
5	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	2"W	B					
5	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B					
5	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B					
5	28% UAN	100	SL	2	qt/a	2	qt/a	2"W	B					
5	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	BBCH39	D					
5	INDUCE	100	SL	0.125	% v/v	0.125	% v/v	BBCH39	D					
5	BAYTHROID XL	1	EC	0.0156	lb ai/a	2	fl oz/a	SPGTHRESH	F					
6	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A		0.0 a	0.0 a	0.0 c	0.0 b
6	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	2"W	B					
6	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B					
6	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B					
6	28% UAN	100	SL	2	qt/a	2	qt/a	2"W	B					
6	STRATEGO	2.08	EC	4	fl oz/a	4	fl oz/a	BBCH30	C					
6	INDUCE	100	SL	0.125	% v/v	0.125	% v/v	BBCH30	C					
6	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	BBCH61	E					
6	INDUCE	100	SL	0.125	% v/v	0.125	% v/v	BBCH61	E					
6	BAYTHROID XL	1	EC	0.0156	lb ai/a	2	fl oz/a	SPGTHRESH	F					
7	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A		0.0 a	0.0 a	0.0 c	0.0 b
7	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	2"W	B					
7	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B					
7	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B					
7	28% UAN	100	SL	2	qt/a	2	qt/a	2"W	B					
7	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	BBCH61	E					
7	INDUCE	100	SL	0.125	% v/v	0.125	% v/v	BBCH61	E					
7	BAYTHROID XL	1	EC	0.0156	lb ai/a	2	fl oz/a	SPGTHRESH	F					
LSD (P=.05)											0.00	0.00	0.31	0.32
Replicate F											0.000	0.000	1.434	1.397
Replicate Prob(F)											1.0000	1.0000	0.2408	0.2536
Treatment F											0.000	0.000	14.690	14.220
Treatment Prob(F)											1.0000	1.0000	0.0001	0.0001

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Rating Unit
Rating Timing
Trt-Eval Interval

P25R47 04-22-09 Injury Percent	FS628 04-22-09 Injury Percent	P25R47 04-22-09 Injury Percent	FS628 04-22-09 Injury Percent	P25R47 05-18-09 Injury Percent	FS628 05-18-09 Injury Percent	P25R47 05-25-09 Injury Percent
14 DA-B	14 DA-B	14 DA-C	14 DA-C	14 DA-D	14 DA-D	14 DA-E

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code							
1	NO SEED TREATMENT										0 a	0 a	0 a	0 a	0 a	0 a
1	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	2"W	B							
1	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B							
1	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B							
1	28% UAN	100	SL	2	qt/a	2	qt/a	2"W	B							
2	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A		0 a	0 a	0 a	0 a	0 a	0 a
2	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	2"W	B							
2	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B							
2	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B							
2	28% UAN	100	SL	2	qt/a	2	qt/a	2"W	B							
3	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A		0 a	0 a	0 a	0 a	0 a	0 a
3	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	2"W	B							
3	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B							
3	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B							
3	28% UAN	100	SL	2	qt/a	2	qt/a	2"W	B							
3	BAYTHROID XL	1	EC	0.0156	lb ai/a	2	fl oz/a	SPGTHRESH	F							
4	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A		0 a	0 a	0 a	0 a	0 a	0 a
4	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	2"W	B							
4	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B							
4	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B							
4	28% UAN	100	SL	2	qt/a	2	qt/a	2"W	B							
4	STRATEGO	2.08	EC	0.163	lb ai/a	10	fl oz/a	BBCH39	D							
4	INDUCE	100	SL	0.125	% v/v	0.125	% v/v	BBCH39	D							
4	BAYTHROID XL	1	EC	0.0156	lb ai/a	2	fl oz/a	SPGTHRESH	F							
5	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A		0 a	0 a	0 a	0 a	0 a	0 a
5	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	2"W	B							
5	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B							
5	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B							
5	28% UAN	100	SL	2	qt/a	2	qt/a	2"W	B							
5	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	BBCH39	D							
5	INDUCE	100	SL	0.125	% v/v	0.125	% v/v	BBCH39	D							
5	BAYTHROID XL	1	EC	0.0156	lb ai/a	2	fl oz/a	SPGTHRESH	F							
6	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A		0 a	0 a	0 a	0 a	0 a	0 a
6	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	2"W	B							
6	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B							
6	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B							
6	28% UAN	100	SL	2	qt/a	2	qt/a	2"W	B							
6	STRATEGO	2.08	EC	4	fl oz/a	4	fl oz/a	BBCH30	C							
6	INDUCE	100	SL	0.125	% v/v	0.125	% v/v	BBCH30	C							
6	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	BBCH61	E							
6	INDUCE	100	SL	0.125	% v/v	0.125	% v/v	BBCH61	E							
6	BAYTHROID XL	1	EC	0.0156	lb ai/a	2	fl oz/a	SPGTHRESH	F							
7	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A		0 a	0 a	0 a	0 a	0 a	0 a
7	OLYMPUS FLEX	11.25	SG	0.0246	lb ai/a	3.5	oz/a	2"W	B							
7	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B							
7	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B							
7	28% UAN	100	SL	2	qt/a	2	qt/a	2"W	B							
7	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	BBCH61	E							
7	INDUCE	100	SL	0.125	% v/v	0.125	% v/v	BBCH61	E							
7	BAYTHROID XL	1	EC	0.0156	lb ai/a	2	fl oz/a	SPGTHRESH	F							
LSD (P=.05)											0.0	0.0	0.0	0.0	0.0	0.0
Replicate F											0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)											1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F											0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)											1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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

Bayer ProTechPlus - Winter Wheat - 1.

Trial ID: 09-13-S120

Location: Belleville Res. Center

									BYD	BYD	TNST/SEP	TNST/SEP
									FS628	P25R47	FS628	P25R47
									05-25-09	05-21-09	05-21-09	05-21-09
									Injury	Severity	Severity	Severity
									Percent	Percent	Percent	Percent
									14 DA-E	17 DA-D	17 DA-D	17 DA-D
Trt	Treatment	Form	Form	Rate	Other	Other	Growth	Appl				
No.	Name	Conc	Type	Unit	Rate	Rate	Stage	Code				
1	NO SEED TREATMENT								0 a	0.2 a	0.0 b	14 a
1	OLYMPUS FLEX	11.25	SG	0.0246 lb ai/a	3.5 oz/a	2"W	B					41 a
1	HUSKIE	2.06	EC	0.217 lb ai/a	13.5 fl oz/a	2"W	B					
1	ACTIVATOR 90	100	SL	0.25 % v/v	0.25 % v/v	2"W	B					
1	28% UAN	100	SL	2 qt/a	2 qt/a	2"W	B					
2	GAUCHO XT		LS	3.4 fl oz/cwt	34.3 g ai/100 kg	SEEDTRT	A		0 a	0.2 a	0.0 b	11 a
2	OLYMPUS FLEX	11.25	SG	0.0246 lb ai/a	3.5 oz/a	2"W	B					38 a
2	HUSKIE	2.06	EC	0.217 lb ai/a	13.5 fl oz/a	2"W	B					
2	ACTIVATOR 90	100	SL	0.25 % v/v	0.25 % v/v	2"W	B					
2	28% UAN	100	SL	2 qt/a	2 qt/a	2"W	B					
3	GAUCHO XT		LS	3.4 fl oz/cwt	34.3 g ai/100 kg	SEEDTRT	A		0 a	0.0 a	0.0 b	13 a
3	OLYMPUS FLEX	11.25	SG	0.0246 lb ai/a	3.5 oz/a	2"W	B					43 a
3	HUSKIE	2.06	EC	0.217 lb ai/a	13.5 fl oz/a	2"W	B					
3	ACTIVATOR 90	100	SL	0.25 % v/v	0.25 % v/v	2"W	B					
3	28% UAN	100	SL	2 qt/a	2 qt/a	2"W	B					
3	BAYTHROID XL	1	EC	0.0156 lb ai/a	2 fl oz/a	SPGTHRESH	F					
4	GAUCHO XT		LS	3.4 fl oz/cwt	34.3 g ai/100 kg	SEEDTRT	A		0 a	0.0 a	0.0 b	4 b
4	OLYMPUS FLEX	11.25	SG	0.0246 lb ai/a	3.5 oz/a	2"W	B					18 b
4	HUSKIE	2.06	EC	0.217 lb ai/a	13.5 fl oz/a	2"W	B					
4	ACTIVATOR 90	100	SL	0.25 % v/v	0.25 % v/v	2"W	B					
4	28% UAN	100	SL	2 qt/a	2 qt/a	2"W	B					
4	STRATEGO	2.08	EC	0.163 lb ai/a	10 fl oz/a	BBCH39	D					
4	INDUCE	100	SL	0.125 % v/v	0.125 % v/v	BBCH39	D					
4	BAYTHROID XL	1	EC	0.0156 lb ai/a	2 fl oz/a	SPGTHRESH	F					
5	GAUCHO XT		LS	3.4 fl oz/cwt	34.3 g ai/100 kg	SEEDTRT	A		0 a	0.2 a	0.3 a	3 b
5	OLYMPUS FLEX	11.25	SG	0.0246 lb ai/a	3.5 oz/a	2"W	B					12 b
5	HUSKIE	2.06	EC	0.217 lb ai/a	13.5 fl oz/a	2"W	B					
5	ACTIVATOR 90	100	SL	0.25 % v/v	0.25 % v/v	2"W	B					
5	28% UAN	100	SL	2 qt/a	2 qt/a	2"W	B					
5	PROSARO	3.5	SC	0.178 lb ai/a	6.5 fl oz/a	BBCH39	D					
5	INDUCE	100	SL	0.125 % v/v	0.125 % v/v	BBCH39	D					
5	BAYTHROID XL	1	EC	0.0156 lb ai/a	2 fl oz/a	SPGTHRESH	F					
6	GAUCHO XT		LS	3.4 fl oz/cwt	34.3 g ai/100 kg	SEEDTRT	A		0 a	0.0 a	0.0 b	3 b
6	OLYMPUS FLEX	11.25	SG	0.0246 lb ai/a	3.5 oz/a	2"W	B					15 b
6	HUSKIE	2.06	EC	0.217 lb ai/a	13.5 fl oz/a	2"W	B					
6	ACTIVATOR 90	100	SL	0.25 % v/v	0.25 % v/v	2"W	B					
6	28% UAN	100	SL	2 qt/a	2 qt/a	2"W	B					
6	STRATEGO	2.08	EC	4 fl oz/a	4 fl oz/a	BBCH30	C					
6	INDUCE	100	SL	0.125 % v/v	0.125 % v/v	BBCH30	C					
6	PROSARO	3.5	SC	0.178 lb ai/a	6.5 fl oz/a	BBCH61	E					
6	INDUCE	100	SL	0.125 % v/v	0.125 % v/v	BBCH61	E					
6	BAYTHROID XL	1	EC	0.0156 lb ai/a	2 fl oz/a	SPGTHRESH	F					
7	GAUCHO XT		LS	3.4 fl oz/cwt	34.3 g ai/100 kg	SEEDTRT	A		0 a	0.0 a	0.0 b	4 b
7	OLYMPUS FLEX	11.25	SG	0.0246 lb ai/a	3.5 oz/a	2"W	B					16 b
7	HUSKIE	2.06	EC	0.217 lb ai/a	13.5 fl oz/a	2"W	B					
7	ACTIVATOR 90	100	SL	0.25 % v/v	0.25 % v/v	2"W	B					
7	28% UAN	100	SL	2 qt/a	2 qt/a	2"W	B					
7	PROSARO	3.5	SC	0.178 lb ai/a	6.5 fl oz/a	BBCH61	E					
7	INDUCE	100	SL	0.125 % v/v	0.125 % v/v	BBCH61	E					
7	BAYTHROID XL	1	EC	0.0156 lb ai/a	2 fl oz/a	SPGTHRESH	F					
LSD (P=.05)									0.0	0.30	0.23	4.5
Replicate F									0.000	1.500	1.000	4.199
Replicate Prob(F)									1.0000	0.2194	0.4346	0.0052
Treatment F									0.000	0.714	2.500	10.860
Treatment Prob(F)									1.0000	0.6409	0.0442	0.0001

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

Bayer ProTechPlus - Winter Wheat - 1.

Trial ID: 09-13-S120

Location: Belleville Res. Center

									HEADSCAB	HEADSCAB		
									P25R47	FS628	P25R47	FS628
									06-09-09	06-09-09	06-09-09	06-09-09
									Severity	Severity	Greenness	Greenness
									Percent	Percent	1-9	1-9
									EOS	EOS	EOS	EOS
Trt	Treatment	Form	Form	Rate	Other	Other	Growth	Appl				
No.	Name	Conc	Type	Unit	Rate	Rate	Stage	Code				
1	NO SEED TREATMENT								29 a	46 a	5.9 ab	2.7 b
1	OLYMPUS FLEX	11.25	SG	0.0246 lb ai/a	3.5 oz/a	2"W	B					
1	HUSKIE	2.06	EC	0.217 lb ai/a	13.5 fl oz/a	2"W	B					
1	ACTIVATOR 90	100	SL	0.25 % v/v	0.25 % v/v	2"W	B					
1	28% UAN	100	SL	2 qt/a	2 qt/a	2"W	B					
2	GAUCHO XT		LS	3.4 fl oz/cwt	34.3 g ai/100 kg	SEEDTRT	A		32 a	43 ab	6.3 ab	3.1 ab
2	OLYMPUS FLEX	11.25	SG	0.0246 lb ai/a	3.5 oz/a	2"W	B					
2	HUSKIE	2.06	EC	0.217 lb ai/a	13.5 fl oz/a	2"W	B					
2	ACTIVATOR 90	100	SL	0.25 % v/v	0.25 % v/v	2"W	B					
2	28% UAN	100	SL	2 qt/a	2 qt/a	2"W	B					
3	GAUCHO XT		LS	3.4 fl oz/cwt	34.3 g ai/100 kg	SEEDTRT	A		36 a	42 ab	5.7 b	2.8 b
3	OLYMPUS FLEX	11.25	SG	0.0246 lb ai/a	3.5 oz/a	2"W	B					
3	HUSKIE	2.06	EC	0.217 lb ai/a	13.5 fl oz/a	2"W	B					
3	ACTIVATOR 90	100	SL	0.25 % v/v	0.25 % v/v	2"W	B					
3	28% UAN	100	SL	2 qt/a	2 qt/a	2"W	B					
3	BAYTHROID XL	1	EC	0.0156 lb ai/a	2 fl oz/a	SPGTHRESH	F					
4	GAUCHO XT		LS	3.4 fl oz/cwt	34.3 g ai/100 kg	SEEDTRT	A		31 a	40 ab	6.3 ab	4.3 a
4	OLYMPUS FLEX	11.25	SG	0.0246 lb ai/a	3.5 oz/a	2"W	B					
4	HUSKIE	2.06	EC	0.217 lb ai/a	13.5 fl oz/a	2"W	B					
4	ACTIVATOR 90	100	SL	0.25 % v/v	0.25 % v/v	2"W	B					
4	28% UAN	100	SL	2 qt/a	2 qt/a	2"W	B					
4	STRATEGO	2.08	EC	0.163 lb ai/a	10 fl oz/a	BBCH39	D					
4	INDUCE	100	SL	0.125 % v/v	0.125 % v/v	BBCH39	D					
4	BAYTHROID XL	1	EC	0.0156 lb ai/a	2 fl oz/a	SPGTHRESH	F					
5	GAUCHO XT		LS	3.4 fl oz/cwt	34.3 g ai/100 kg	SEEDTRT	A		31 a	41 ab	6.2 ab	4.0 ab
5	OLYMPUS FLEX	11.25	SG	0.0246 lb ai/a	3.5 oz/a	2"W	B					
5	HUSKIE	2.06	EC	0.217 lb ai/a	13.5 fl oz/a	2"W	B					
5	ACTIVATOR 90	100	SL	0.25 % v/v	0.25 % v/v	2"W	B					
5	28% UAN	100	SL	2 qt/a	2 qt/a	2"W	B					
5	PROSARO	3.5	SC	0.178 lb ai/a	6.5 fl oz/a	BBCH39	D					
5	INDUCE	100	SL	0.125 % v/v	0.125 % v/v	BBCH39	D					
5	BAYTHROID XL	1	EC	0.0156 lb ai/a	2 fl oz/a	SPGTHRESH	F					
6	GAUCHO XT		LS	3.4 fl oz/cwt	34.3 g ai/100 kg	SEEDTRT	A		22 b	33 b	6.7 a	4.0 ab
6	OLYMPUS FLEX	11.25	SG	0.0246 lb ai/a	3.5 oz/a	2"W	B					
6	HUSKIE	2.06	EC	0.217 lb ai/a	13.5 fl oz/a	2"W	B					
6	ACTIVATOR 90	100	SL	0.25 % v/v	0.25 % v/v	2"W	B					
6	28% UAN	100	SL	2 qt/a	2 qt/a	2"W	B					
6	STRATEGO	2.08	EC	4 fl oz/a	4 fl oz/a	BBCH30	C					
6	INDUCE	100	SL	0.125 % v/v	0.125 % v/v	BBCH30	C					
6	PROSARO	3.5	SC	0.178 lb ai/a	6.5 fl oz/a	BBCH61	E					
6	INDUCE	100	SL	0.125 % v/v	0.125 % v/v	BBCH61	E					
6	BAYTHROID XL	1	EC	0.0156 lb ai/a	2 fl oz/a	SPGTHRESH	F					
7	GAUCHO XT		LS	3.4 fl oz/cwt	34.3 g ai/100 kg	SEEDTRT	A		21 b	38 ab	5.9 ab	2.8 b
7	OLYMPUS FLEX	11.25	SG	0.0246 lb ai/a	3.5 oz/a	2"W	B					
7	HUSKIE	2.06	EC	0.217 lb ai/a	13.5 fl oz/a	2"W	B					
7	ACTIVATOR 90	100	SL	0.25 % v/v	0.25 % v/v	2"W	B					
7	28% UAN	100	SL	2 qt/a	2 qt/a	2"W	B					
7	PROSARO	3.5	SC	0.178 lb ai/a	6.5 fl oz/a	BBCH61	E					
7	INDUCE	100	SL	0.125 % v/v	0.125 % v/v	BBCH61	E					
7	BAYTHROID XL	1	EC	0.0156 lb ai/a	2 fl oz/a	SPGTHRESH	F					
LSD (P=.05)									7.4	10.0	0.91	1.43
Replicate F									9.936	0.469	0.206	0.574
Replicate Prob(F)									0.0001	0.7965	0.9575	0.7192
Treatment F									4.605	1.419	1.036	1.964
Treatment Prob(F)									0.0020	0.2400	0.4221	0.1025

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

Bayer ProTechPlus - Winter Wheat - 1.

Trial ID: 09-13-S120

Location: Belleville Res. Center

Trial Comments

1. Protocol: Bayer (M3A).
2. Ratings: Plant counts and visual vigor 21-28 days after planting, count (3) 19.2 inch of row, vigor 1 to 9, 1 = best, 9 = dead.
Crop injury from foliar applications at 14-21 DAT, and until no injury is present.
Disease incidence and severity when disease symptoms appear and again before leaf senescence.
Insect incidence and severity at 21-28 days after planting and 14-21 days after the SPGTHRESH application.
3. Yield.
4. Application timings: SEEDTRT = Seed treatment; 2"W = 2 inch weeds;
BBCH30 = Beginning of stem elongation: pseudostem & tillers erect, but before first node is above the tillering node;
BBCH39 = Flag leaf fully unrolled, ligule visible; BBCH61 = Beginning of flowering, first anther visible;
SPGTHRESH = Spring threshold (aphids).
Wheat varieties are P25R47 and FS628 planted in the left and right 5 ft of each plot, respectively.
5. Test wt. = Test weight. mil/A = Million per acre. DAP = Days after planting. 1.0 sqft = One square ft.
Vigor 1 to 9, 1 = best, 9 = dead. BYD = Barley yellow dwarf. HEADSCAB = Head scab (fusarium head blight).
EOS = End of season.
TNST/SEP = Tan spot and/or septoria leaf blotch on the flag leaf and next lower leaf (80% tan spot and 20% septoria leaf blotch).
Greenness = Flagleaf greenness, another late season measure of disease severity on the flagleaf, 1 = brown, 9 = deep green.
No leaf rust was found. No stripe rust was found.
6. Harvested 6-25-09, (6) 7.5 inch rows by 20 ft.