

Protech Wheat - Bayer

Trial ID: 10-ARC-N8-MN120

Location: Agronomy Res. Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu
 City State Zip Country: Carbondale IL 62901 USA
 Trial Status: FINAL Initiation Date: 10-21-09

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: 10-21-09
 Rate, Unit: 1.3 mil. S/A Depth, Unit: 1 IN
 Row Spacing, Unit: 7.5 IN
 Plot Width, Unit: 10 FT Site Type: FIELD
 Plot Length, Unit: 24 FT Tillage Type: NO-TILL
 Replications: 6 Study Design: Randomized Complete Block

Prior Crops, Year

1. ZEAMD 2009

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: 2.1 Texture: SILT LOAM
 pH: 6.4 Soil Name: WEIR
 CEC: 7.6 Fert. Level: P1: 48 LB/A, K: 188 LB/A

	Application Description			
	A	B	C	D
Application Date:	10-21-09	04-09-10	04-23-10	05-06-10
Time of Day:		9:30	10:00	11:00
Application Method:		Spray	Spray	Spray
Application Timing:	SEEDTRT	2"W	FK8	FK10.51
Application Placement:		BROFOL	BROFOL	BROFOL
Applied By:		NRJ	NRJ	NRJ
Air Temperature, Unit:		58 F	71 F	70 F
% Relative Humidity:		55	69	48
Wind Velocity, Unit:		1 MPH	4 MPH	2 MPH
Wind Direction:		W	SW	NE
Dew Presence (Y/N):		Y	N	N
Soil Temperature, Unit:		48 F	55 F	60 F
Soil Moisture:		NORMAL	BELNOR	NORMAL
% Cloud Cover:		0	80	0

	10-21-09	04-09-10	04-23-10	05-06-10
Crop stage at application:	NA	5	FK 8	FK 10.51 FK
Height Min, Max (inch):		6	10 15	20 24 28

Pest Stage At Each Application

	10-21-09	04-09-10	04-23-10	05-06-10
Stage Majority (leaves):	NA	NA	NA	NA

Application Equipment

	SEEDTRT	CO2 sprayer	CO2 sprayer	CO2 sprayer
Appl. Equipment:				
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:	10 FT	10 FT	10 FT	
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA	

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25R54	25R54	25R54	25R78	25R78	25R78
06-21-10	06-21-10	06-21-10	06-21-10	06-21-10	06-21-10
Moisture	Test wt.	Yield	Moisture	Test wt.	Yield
Percent	lb/bu	bu/A	Percent	lb/bu	bu/A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code							
1	NO SEED TREATMENT										9.8 c	46.8 a	50 f	10.2 c	48.0 a	64 g
1	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% 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		10.0 bc	49.3 a	54 f	10.3 bc	47.8 a	72 f
2	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% 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		10.3 bc	48.4 a	62 e	10.5 abc	49.0 a	79 e
3	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B							
3	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B							
4	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A		10.2 bc	48.0 a	72 d	10.6 abc	49.6 a	80 de
4	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B							
4	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B							
4	USF0731	4.17	SC	0.065	lb ai/a	2	fl oz/a	2"W	B							
5	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A		10.5 ab	48.8 a	82 bc	10.7 ab	49.2 a	86 cd
5	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B							
5	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B							
5	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	FK8	C							
5	INDUCE	100	SL	0.125	% v/v	0.125	% v/v	FK8	C							
6	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A		10.5 ab	48.5 a	76 cd	10.8 a	50.3 a	88 bc
6	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B							
6	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B							
6	USF0731	4.17	SC	0.163	lb ai/a	5	fl oz/a	FK8	C							
6	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	FK8	C							
7	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A		10.8 a	48.8 a	87 b	10.8 a	49.3 a	92 b
7	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B							
7	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B							
7	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	FK10.51	D							
7	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	FK10.51	D							
8	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A		10.8 a	49.0 a	93 a	10.9 a	49.5 a	99 a
8	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	oz/a	2"W	B							
8	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B							
8	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B							
8	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B							
8	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B							
8	USF0731	4.17	SC	0.065	lb ai/a	2	fl oz/a	2"W	B							
8	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	FK10.51	D							
8	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	FK10.51	D							
LSD (P=.05)											0.51	2.76	6.4	0.46	3.28	5.9
Replicate F											2.225	1.310	5.056	0.247	0.377	1.542
Replicate Prob(F)											0.0736	0.2821	0.0014	0.9388	0.8611	0.2022
Treatment F											4.138	0.653	49.465	2.544	0.524	28.873
Treatment Prob(F)											0.0021	0.7094	0.0001	0.0316	0.8105	0.0001

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

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25R54	25R78	25R54	25R78	25R54	25R78
04-22-10	04-22-10	05-07-10	05-07-10	05-20-10	05-20-10
Injury	Injury	Injury	Injury	Injury	Injury
Percent	Percent	Percent	Percent	Percent	Percent
14 DA-C	14 DA-C	14 DA-C	14 DA-C	14 DA-D	14 DA-D
13 DA-B	13 DA-B	28 DA-B	28 DA-B	27 DA-C	27 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	NO SEED TREATMENT										2 ab	2 a	0 a	0 a	0 a
1	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% 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 b	1 a	0 a	0 a	0 a	0 a
2	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% 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	2 ab	2 a	0 a	0 a	0 a	0 a
3	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B						
3	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B						
4	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	3 ab	2 a	0 a	0 a	0 a	0 a
4	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B						
4	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B						
4	USF0731	4.17	SC	0.065	lb ai/a	2	fl oz/a	2"W	B						
5	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	3 a	2 a	0 a	0 a	0 a	0 a
5	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B						
5	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B						
5	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	FK8	C						
5	INDUCE	100	SL	0.125	% v/v	0.125	% v/v	FK8	C						
6	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	2 ab	2 a	0 a	0 a	0 a	0 a
6	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B						
6	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B						
6	USF0731	4.17	SC	0.163	lb ai/a	5	fl oz/a	FK8	C						
6	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	FK8	C						
7	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	3 a	2 a	0 a	0 a	0 a	0 a
7	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B						
7	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B						
7	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	FK10.51	D						
7	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	FK10.51	D						
8	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	2 ab	2 a	0 a	0 a	0 a	0 a
8	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	oz/a	2"W	B						
8	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B						
8	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B						
8	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B						
8	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B						
8	USF0731	4.17	SC	0.065	lb ai/a	2	fl oz/a	2"W	B						
8	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	FK10.51	D						
8	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	FK10.51	D						

LSD (P=.05) 1.4 1.3 0.0 0.0 0.0 0.0

Replicate F	0.636	1.017	0.000	0.000	0.000	0.000
Replicate Prob(F)	0.6734	0.4226	1.0000	1.0000	1.0000	1.0000
Treatment F	1.111	0.495	0.000	0.000	0.000	0.000
Treatment Prob(F)	0.3781	0.8319	1.0000	1.0000	1.0000	1.0000

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

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25R54 11-18-09 Vigor 1-9	25R78 11-18-09 Vigor 1-9	25R54 11-18-09 Plants 1 sqft	25R78 11-18-09 Plants 1 sqft	25R54 06-14-10 Height inch	25R78 06-14-10 Height inch
28 DAP	28 DAP	28 DAP	28 DAP	EOS	EOS

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	NO SEED TREATMENT									3.7 a	4.3 a	19.0 c	18.7 a	30.8 b	28.4 d
1	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% 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	3.2 ab	3.2 b	22.7 ab	20.9 a	31.5 ab	29.4 abc
2	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% 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	3.0 b	3.2 b	19.8 bc	19.5 a	31.6 ab	29.0 bcd
3	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B						
3	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B						
4	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	3.0 b	3.7 ab	20.7 abc	18.6 a	31.7 a	29.4 abc
4	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B						
4	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B						
4	USF0731	4.17	SC	0.065	lb ai/a	2	fl oz/a	2"W	B						
5	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	3.0 b	3.3 b	21.2 abc	18.2 a	31.8 a	28.8 cd
5	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B						
5	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B						
5	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	FK8	C						
5	INDUCE	100	SL	0.125	% v/v	0.125	% v/v	FK8	C						
6	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	3.3 ab	3.5 ab	23.4 a	19.9 a	31.5 ab	29.8 ab
6	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B						
6	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B						
6	USF0731	4.17	SC	0.163	lb ai/a	5	fl oz/a	FK8	C						
6	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	FK8	C						
7	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	3.2 ab	3.3 b	23.3 a	21.1 a	31.8 a	29.8 ab
7	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B						
7	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B						
7	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	FK10.51	D						
7	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	FK10.51	D						
8	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	2.8 b	3.2 b	19.3 c	19.7 a	32.0 a	30.0 a
8	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	oz/a	2"W	B						
8	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B						
8	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B						
8	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B						
8	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B						
8	USF0731	4.17	SC	0.065	lb ai/a	2	fl oz/a	2"W	B						
8	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	FK10.51	D						
8	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	FK10.51	D						
LSD (P=.05)										0.57	0.86	3.14	3.55	0.89	0.92
Replicate F										0.719	1.869	2.059	5.549	9.175	7.994
Replicate Prob(F)										0.6133	0.1250	0.0942	0.0007	0.0001	0.0001
Treatment F										1.692	1.787	2.693	0.749	1.413	2.973
Treatment Prob(F)										0.1432	0.1211	0.0243	0.6325	0.2313	0.0148

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

Protech Wheat - Bayer

Trial ID: 10-ARC-N8-MN120

Location: Agronomy Res. Center

Pest Code		APHIDS		APHIDS		APHIDS		APHIDS		APHIDS	
Crop Code		25R54		25R78		25R54		25R54		25R78	
Rating Date		11-18-09		11-18-09		04-22-10		04-22-10		04-22-10	
Rating Data Type		Incidence		Incidence		Incidence		Severity		Incidence	
Rating Unit		% Plants		% Plants		% Plants		/Plant		% Plants	
Rating Timing		28 DAP		28 DAP		13 DA-B		13 DA-B		13 DA-B	
Trt-Eval Interval		28 DAP		28 DAP		13 DA-B		13 DA-B		13 DA-B	
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
1	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	oz/a	2"W	B	23.8 a	2.8 a
1	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B	26.3 a	4.3 a
1	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B		
1	32% 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
2	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	oz/a	2"W	B	20.0 a	2.3 a
2	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B	17.0 a	2.3 b
2	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B		
2	32% 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
3	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	oz/a	2"W	B	1.8 b	1.0 b
3	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B	1.8 b	0.8 b
3	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B		
3	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B		
3	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B		
4	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	0 a	0 a
4	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	oz/a	2"W	B	1.3 b	0.7 b
4	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B	1.0 b	0.8 b
4	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B		
4	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B		
4	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B		
4	USF0731	4.17	SC	0.065	lb ai/a	2	fl oz/a	2"W	B		
5	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	0 a	0 a
5	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	oz/a	2"W	B	1.7 b	0.5 b
5	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B	1.8 b	0.7 b
5	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B		
5	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B		
5	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B		
5	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	FK8	C		
5	INDUCE	100	SL	0.125	% v/v	0.125	% v/v	FK8	C		
6	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	0 a	0 a
6	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	oz/a	2"W	B	2.7 b	0.8 b
6	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B	2.2 b	0.7 b
6	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B		
6	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B		
6	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B		
6	USF0731	4.17	SC	0.163	lb ai/a	5	fl oz/a	FK8	C		
6	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	FK8	C		
7	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	0 a	0 a
7	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	oz/a	2"W	B	2.8 b	1.0 b
7	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B	2.8 b	1.0 b
7	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B		
7	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B		
7	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B		
7	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	FK10.51	D		
7	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	FK10.51	D		
8	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	0 a	0 a
8	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	oz/a	2"W	B	2.2 b	1.2 b
8	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B	1.2 b	1.2 b
8	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B	1.0 b	
8	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B		
8	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B		
8	USF0731	4.17	SC	0.065	lb ai/a	2	fl oz/a	2"W	B		
8	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	FK10.51	D		
8	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	FK10.51	D		
LSD (P=.05)										0.0	0.0
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)

Protech Wheat - Bayer

Trial ID: 10-ARC-N8-MN120

Location: Agronomy Res. Center

Pest Code	RUST	RUST	RUST	RUST
Crop Code	25R54	25R54	25R78	25R78
Rating Date	05-26-10	05-26-10	05-26-10	05-26-10
Rating Data Type	Incidence	Severity	Incidence	Severity
Rating Unit	Percent	Percent	Percent	Percent
Rating Timing	33 DA-C	33 DA-C	33 DA-C	33 DA-C
Trt-Eval Interval	20 DA-D	20 DA-D	20 DA-D	20 DA-D

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	NO SEED TREATMENT									94 ab	46 a	93 ab	43 a
1	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% 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	94 ab	43 a	94 ab	41 a
2	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% 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	94 ab	45 a	94 ab	47 a
3	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B				
3	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B				
4	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	95 a	42 a	95 a	41 a
4	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B				
4	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B				
4	USF0731	4.17	SC	0.065	lb ai/a	2	fl oz/a	2"W	B				
5	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	91 b	32 b	89 b	25 b
5	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B				
5	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B				
5	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	FK8	C				
5	INDUCE	100	SL	0.125	% v/v	0.125	% v/v	FK8	C				
6	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	92 ab	32 b	91 ab	24 b
6	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B				
6	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B				
6	USF0731	4.17	SC	0.163	lb ai/a	5	fl oz/a	FK8	C				
6	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	FK8	C				
7	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	69 c	5 c	60 c	5 c
7	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B				
7	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B				
7	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	FK10.51	D				
7	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	FK10.51	D				
8	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	71 c	6 c	63 c	3 c
8	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	oz/a	2"W	B				
8	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B				
8	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B				
8	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B				
8	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B				
8	USF0731	4.17	SC	0.065	lb ai/a	2	fl oz/a	2"W	B				
8	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	FK10.51	D				
8	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	FK10.51	D				

LSD (P=.05) 3.7 8.6 5.2 8.5

Replicate F 6.089 3.639 3.201 3.838

Replicate Prob(F) 0.0004 0.0094 0.0175 0.0071

Treatment F 70.888 31.554 64.002 33.960

Treatment Prob(F) 0.0001 0.0001 0.0001 0.0001

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

Protech Wheat - Bayer

Trial ID: 10-ARC-N8-MN120

Location: Agronomy Res. Center

Pest Code		SEPTORIA 25R54		SEPTORIA 25R54		SEPTORIA 25R78		SEPTORIA 25R78	
Crop Code		05-26-10		05-26-10		05-26-10		05-26-10	
Rating Date		Incidence		Severity		Incidence		Severity	
Rating Data Type		Percent		Percent		Percent		Percent	
Rating Unit		33 DA-C		33 DA-C		33 DA-C		33 DA-C	
Rating Timing		20 DA-D		20 DA-D		20 DA-D		20 DA-D	
Trt-Eval Interval									
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	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% 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
2	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% 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
3	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B
3	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B
4	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A
4	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B
4	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B
4	USF0731	4.17	SC	0.065	lb ai/a	2	fl oz/a	2"W	B
5	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A
5	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B
5	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B
5	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	FK8	C
5	INDUCE	100	SL	0.125	% v/v	0.125	% v/v	FK8	C
6	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A
6	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B
6	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B
6	USF0731	4.17	SC	0.163	lb ai/a	5	fl oz/a	FK8	C
6	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	FK8	C
7	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A
7	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B
7	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B
7	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	FK10.51	D
7	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	FK10.51	D
8	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A
8	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	oz/a	2"W	B
8	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B
8	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B
8	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B
8	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B
8	USF0731	4.17	SC	0.065	lb ai/a	2	fl oz/a	2"W	B
8	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	FK10.51	D
8	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	FK10.51	D
LSD (P=.05)						4.8		6.7	
Replicate F						1.663		3.522	
Replicate Prob(F)						0.1695		0.0110	
Treatment F						14.022		6.207	
Treatment Prob(F)						0.0001		0.0001	

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

Protech Wheat - Bayer

Trial ID: 10-ARC-N8-MN120

Location: Agronomy Res. Center

Pest Code	HEADSCAB	HEADSCAB
Crop Code	25R54	25R78
Rating Date	05-26-10	05-26-10
Rating Data Type	Incidence	Incidence
Rating Unit	Percent	Percent
Rating Timing	33 DA-C	33 DA-C
Trt-Eval Interval	20 DA-D	20 DA-D

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	NO SEED TREATMENT									0.7 a	0.2 b	
1	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% 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	0.8 a	0.2 b	
2	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% 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	0.3 a	1.2 a	
3	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B			
3	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B			
4	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	0.5 a	1.0 ab	
4	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B			
4	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B			
4	USF0731	4.17	SC	0.065	lb ai/a	2	fl oz/a	2"W	B			
5	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	1.2 a	0.2 b	
5	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B			
5	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B			
5	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	FK8	C			
5	INDUCE	100	SL	0.125	% v/v	0.125	% v/v	FK8	C			
6	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	1.0 a	1.0 ab	
6	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B			
6	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B			
6	USF0731	4.17	SC	0.163	lb ai/a	5	fl oz/a	FK8	C			
6	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	FK8	C			
7	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	0.7 a	0.5 ab	
7	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	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	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B			
7	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B			
7	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	FK10.51	D			
7	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	FK10.51	D			
8	GAUCHO XT		LS	3.4	fl oz/cwt	34.3	g ai/100 kg	SEEDTRT	A	0.3 a	0.2 b	
8	OLYMPUS	70	WG	0.0263	lb ai/a	0.6	oz/a	2"W	B			
8	HUSKIE	2.06	EC	0.217	lb ai/a	13.5	fl oz/a	2"W	B			
8	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	2"W	B			
8	32% UAN	100	SL	2	qt/a	2	qt/a	2"W	B			
8	BAYTHROID XL	1	EC	0.0125	lb ai/a	1.6	fl oz/a	2"W	B			
8	USF0731	4.17	SC	0.065	lb ai/a	2	fl oz/a	2"W	B			
8	PROSARO	3.5	SC	0.178	lb ai/a	6.5	fl oz/a	FK10.51	D			
8	ACTIVATOR 90	100	SL	0.25	% v/v	0.25	% v/v	FK10.51	D			
LSD (P=.05)										1.22	0.89	
Replicate F										2.849	1.983	
Replicate Prob(F)										0.0292	0.1055	
Treatment F										0.511	2.063	
Treatment Prob(F)										0.8200	0.0744	

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

Protech Wheat - Bayer

Trial ID: 10-ARC-N8-MN120

Location: Agronomy 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 (B, C, D) 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. Wheat varieties are P25R54 and P25R78 planted in the left and right 5 ft of each plot, respectively.
5. Blanket application of Roundup WeatherMax (32 fl oz/A) on 10/28/09.
6. Blanket application of 95 lbs Nitrogen/A (32% UAN) on 3/18/10.
7. Aphid counts, % Plants = Percentage of plants with aphids, /Plant = Average number of aphids per plant.
DAP = Days after planting. At 28 DAP there were no aphids found.
RUST = Stripe rust. SEPTORIA = Glume blotch. HEADSCAB = Fusarium head blight (low incidence, severity not rated).
8. Harvested 6-21-10 (6) 7.5 inch rows by 20 ft.