

Wheat Fungicide Screen with Transfusion.

Project Code: 05-30-N70 Location: Belleville Research Center
 Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
Trial Status: Final **Updated:** 11-14-05

Objective:

Determine the effectiveness of the adjuvant Transfusion applied with various fungicides in wheat.

Weed Code Common Name Scientific Name

1. NA

Crop 1: TRZAW wheat, winter **Variety:** P25R78
Planting Method: Seeded **Planting Date:** 10-7-04
Rate: 1.3 mil. S/A **Depth:** 1.5 IN
Row Spacing: 7.5 IN

Plot Width, Unit: 10 FT **Plot Length, Unit:** 30 FT **Reps:** 3
Tillage Type: Reduced-Till **Study Design:** Randomized complete block
Previous Crop, Year: GLXMA, 2004

Field Prep./Maintenance: N 30 LB/A applied on 10-29-04 and N 85 LB/A applied on 1-28-05

Soil Name: Clarksdale **% OM:** 2 **pH:** 6 **CEC:** 9
Texture: Silt loam **Fert. Level:** P1: 70 LB/A, K: 377 LB/A

APPLICATION DESCRIPTION

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Application Date: 05-11-05
Time of Day: 10:00
Application Method: Spray
Application Timing: FK10
Applic. Placement: BROFOL
Air Temp., Unit: 77 F
% Relative Humidity: 76
Wind Velocity, Unit: 0 MPH
Soil Moisture: NORMAL

CROP STAGE AT EACH APPLICATION

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Crop 1 Code, Stage: TRZAW FK10.5
Height, Unit: 33-36 IN

APPLICATION EQUIPMENT

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Appl. Equipment: CO2 sprayer
Operating Pressure: 40-50 PSI
Nozzle Type: Flat fan
Nozzle Size: 8002
Boom Length, Unit: 7.5 FT
Spray Volume, Unit: 15 GPA

NOTES:

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Weed Code																		
Crop Code	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW								
Rating Data Type	StrpRust	StrpRust	LeafBch	LeafBch	GlumeBch	GlumeBch	Moisture	Test wt.	Yield									
Rating Unit	% Incid	% Sever	% Incid	% Sever	% Incid	% Sever	Percent	lb/bu	bu/A									
Rating Date	05-27-05	05-27-05	05-27-05	05-27-05	05-27-05	05-27-05	06-21-05	06-21-05	06-21-05									
Trt-Eval Interval	16 DA-A	16 DA-A	16 DA-A	16 DA-A	16 DA-A	16 DA-A												
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code									
1	QUADRIS	2.08	F	0.101	lb ai/a	6.2	fl oz/a	FK10	A	2	2	0	0	1	2	13.3	60.9	86
2	QUADRIS	2.08	F	0.101	lb ai/a	6.2	fl oz/a	FK10	A	0	0	0	0	1	1	13.3	60.8	88
2	TRANSFUSION	100	LIQ	0.125	% v/v	0.125	% v/v	FK10	A									
3	QUILT	1.67	F	0.183	lb ai/a	14	fl oz/a	FK10	A	0	0	0	0	1	1	13.3	60.6	89
4	QUILT	1.67	F	0.183	lb ai/a	14	fl oz/a	FK10	A	0	0	0	0	1	1	13.3	60.8	91
4	TRANSFUSION	100	LIQ	0.125	% v/v	0.125	% v/v	FK10	A									
5	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	FK10	A	0	0	0	0	1	1	13.2	60.8	88
6	HEADLINE	2.09	EC	0.098	lb ai/a	6	fl oz/a	FK10	A	1	1	0	0	1	1	13.2	60.8	90
6	TRANSFUSION	100	LIQ	0.125	% v/v	0.125	% v/v	FK10	A									
7	NONTREATED									11	4	0	0	5	4	12.9	60.8	88
LSD (P=.05)										2.6	0.9	0.4	0.4	0.5	1.1	0.35	0.51	7.0
Replicate F										2.339	3.800	1.000	1.000	1.636	2.571	0.597	0.250	0.585
Replicate Prob(F)										0.1387	0.0527	0.3966	0.3966	0.2353	0.1176	0.5659	0.7830	0.5721
Treatment F										20.570	31.600	1.000	1.000	79.818	12.204	1.660	0.283	0.634
Treatment Prob(F)										0.0001	0.0001	0.4682	0.4682	0.0001	0.0002	0.2141	0.9342	0.7016

Trial Comments

1. Protocol: Big Rivers.
2. Ratings: Disease incidence and severity 14-21 DAT.
3. Yield.
4. Spray pressure is 40-50 PSI.
5. % Incid = Percent incidence. % Sever = Percent severity. StrpRust = Stripe Rust. LeafBch = Leaf Blotch. GlumeBch = Glume blotch. DA-A = Days after FK10 application.
6. Harvested 6-21-05, (8) 7.5 inch rows by 27 ft.