

Transfusion with Wheat Fungicides.

Project Code: 06-8B-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:**      7-5-06

**Objective:**

Assess crop response to foliar fungicides applied with the adjuvant Transfusion.

**Crop 1:**            TRZAW wheat, winter      **Variety:**      P25R78  
**Planting Method:** Seeded      **Planting Date:** 10-7-05  
**Rate:**            1.3 mil. S/A      **Depth:**      1.0 IN  
**Row Spacing:**      7.5 IN

**Plot Width, Unit:** 10 FT      **Plot Length, Unit:** 28 FT      **Reps:** 3  
**Tillage Type:** Reduced-Till      **Study Design:** Randomized complete block  
**Previous Crop, Year:** GLXMA, 2005  
**Field Prep./Maintenance:** N 30 LB/A applied on 10-6-05 and N 85 LB/A applied on 2-6-06.

**Soil Name:** Weir      **% OM:** 1.8      **pH:** 6      **CEC:** 10  
**Texture:** Silt loam      **Fert. Level:** P1: 79 LB/A, K: 418 LB/A

**APPLICATION DESCRIPTION**

**A**  
**Application Date:** 4-27-06  
**Time of Day:** 10:00  
**Application Method:** Spray  
**Application Timing:** FK10.5  
**Applic. Placement:** BROFOL  
**Air Temp., Unit:** 60 F  
**% Relative Humidity:** 40  
**Wind Velocity, Unit:** 2-4 MPH  
**Soil Moisture:** NORMAL

**CROP STAGE AT EACH APPLICATION**

**A**  
**Crop 1 Code, Stage:** TRZAW F10.5  
**Height, Unit:** 28-30 IN

**APPLICATION EQUIPMENT**

**A**  
**Appl. Equipment:** CO2 sprayer  
**Operating Pressure:** 40 PSI  
**Nozzle Type:** Flat fan  
**Nozzle Size:** 8002  
**Boom Length, Unit:** 7.5 FT  
**Spray Volume, Unit:** 20 GPA

**NOTES:**

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Weed Code  
 Crop Code  
 Rating Data Type  
 Rating Unit  
 Rating Date  
 Trt-Eval Interval

TRZAW Moisture Percent 6-14-06	TRZAW Test wt. lb/bu 6-14-06	TRZAW Yield bu/A 6-14-06	TRZAW Injury Percent 5-8-06 11 DA-A	TRZAW Injury Percent 5-22-06 25 DA-A	TRZAW HeadScab % Incid 5-22-06 25 DA-A	TRZAW HeadScab % Sever 5-22-06 25 DA-A	TRZAW GlumeBch % Incid 5-22-06 25 DA-A
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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	TRZAW Moisture Percent	TRZAW Test wt. lb/bu	TRZAW Yield bu/A	TRZAW Injury Percent	TRZAW Injury Percent	TRZAW HeadScab % Incid	TRZAW HeadScab % Sever	TRZAW GlumeBch % Incid
1	NONTREATED									11.9	53.6	65	0	0	2	17	15
2	FOLICUR	3.6 F		0.112	lb ai/a	4	fl oz/a	FK10.5 A		12.0	53.6	66	0	0	1	11	6
2	ACTIVATOR 90	100 LIQ		1.0	pt/100 gal	1	pt/100 gal	FK10.5 A									
3	FOLICUR	3.6 F		0.112	lb ai/a	4	fl oz/a	FK10.5 A		11.9	53.3	62	0	0	1	8	2
3	TRANSFUSION	100 LIQ		1.0	pt/100 gal	1	pt/100 gal	FK10.5 A									
4	PROSARO	3.5 SC		0.178	lb ai/a	6.5	fl oz/a	FK10.5 A		12.2	54.1	66	0	0	1	7	3
4	ACTIVATOR 90	100 LIQ		1.0	pt/100 gal	1	pt/100 gal	FK10.5 A									
5	PROSARO	3.5 SC		0.178	lb ai/a	6.5	fl oz/a	FK10.5 A		11.9	54.0	65	0	0	1	10	2
5	TRANSFUSION	100 LIQ		1.0	pt/100 gal	1	pt/100 gal	FK10.5 A									
6	TILT	3.6 F		0.112	lb ai/a	4	fl oz/a	FK10.5 A		11.9	53.7	63	0	0	2	12	3
6	ACTIVATOR 90	100 LIQ		1.0	pt/100 gal	1	pt/100 gal	FK10.5 A									
7	TILT	3.6 F		0.112	lb ai/a	4	fl oz/a	FK10.5 A		11.8	53.3	68	0	0	1	5	2
7	TRANSFUSION	100 LIQ		1.0	pt/100 gal	1	pt/100 gal	FK10.5 A									
LSD (P=.05)										0.38	0.89	7.3	0.0	0.0	0.9	12.5	4.1
Replicate F										10.786	13.887	4.599	0.000	0.000	1.200	0.420	1.958
Replicate Prob(F)										0.0021	0.0008	0.0329	1.0000	1.0000	0.3349	0.6662	0.1837
Treatment F										0.735	1.188	0.933	0.000	0.000	1.600	0.875	12.689
Treatment Prob(F)										0.6316	0.3749	0.5062	1.0000	1.0000	0.2298	0.5407	0.0001

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Weed Code  
 Crop Code  
 Rating Data Type  
 Rating Unit  
 Rating Date  
 Trt-Eval Interval

TRZAW GlumeBch % Sever 5-22-06 25 DA-A	TRZAW LeafBch % Incid 5-22-06 25 DA-A	TRZAW LeafBch % Sever 5-22-06 25 DA-A	TRZAW TanSpot % Incid 5-22-06 25 DA-A	TRZAW TanSpot % Sever 5-22-06 25 DA-A	TRZAW BYD % Incid 5-22-06 25 DA-A	TRZAW BYD % Sever 5-22-06 25 DA-A
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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	TRZAW GlumeBch % Sever	TRZAW LeafBch % Incid	TRZAW LeafBch % Sever	TRZAW TanSpot % Incid	TRZAW TanSpot % Sever	TRZAW BYD % Incid	TRZAW BYD % Sever
1	NONTREATED									12	4	5	15	25	12	13
2	FOLICUR	3.6 F		0.112	lb ai/a	4	fl oz/a	FK10.5 A		8	1	1	1	5	16	15
2	ACTIVATOR 90	100 LIQ		1.0	pt/100 gal	1	pt/100 gal	FK10.5 A								
3	FOLICUR	3.6 F		0.112	lb ai/a	4	fl oz/a	FK10.5 A		4	1	1	0	1	10	17
3	TRANSFUSION	100 LIQ		1.0	pt/100 gal	1	pt/100 gal	FK10.5 A								
4	PROSARO	3.5 SC		0.178	lb ai/a	6.5	fl oz/a	FK10.5 A		3	1	2	1	3	17	17
4	ACTIVATOR 90	100 LIQ		1.0	pt/100 gal	1	pt/100 gal	FK10.5 A								
5	PROSARO	3.5 SC		0.178	lb ai/a	6.5	fl oz/a	FK10.5 A		2	0	0	1	5	22	13
5	TRANSFUSION	100 LIQ		1.0	pt/100 gal	1	pt/100 gal	FK10.5 A								
6	TILT	3.6 F		0.112	lb ai/a	4	fl oz/a	FK10.5 A		4	1	1	1	3	18	18
6	ACTIVATOR 90	100 LIQ		1.0	pt/100 gal	1	pt/100 gal	FK10.5 A								
7	TILT	3.6 F		0.112	lb ai/a	4	fl oz/a	FK10.5 A		3	1	1	1	3	13	12
7	TRANSFUSION	100 LIQ		1.0	pt/100 gal	1	pt/100 gal	FK10.5 A								
LSD (P=.05)										4.5	3.5	3.5	3.6	5.0	14.8	11.4
Replicate F										1.385	0.710	0.468	0.506	0.557	4.858	0.973
Replicate Prob(F)										0.2877	0.5114	0.6372	0.6153	0.5870	0.0285	0.4058
Treatment F										5.707	1.622	2.260	21.624	26.469	0.716	0.354
Treatment Prob(F)										0.0052	0.2238	0.1081	0.0001	0.0001	0.6443	0.8939

Trial Comments

1. Protocol: Big Rivers Agri Supply.
2. Ratings: CI 10 + 30 DAT; Disease incidence + severity at 30 DAT.
3. % Incid = Percent incidence. % Sever = Percent severity. HeadScab = Head scab.  
 GlumeBch = Glume blotch. LeafBch = Leaf Blotch. TanSpot = Tan spot. BYD = Barley yellow dwarf.  
 DA-A = Days after FK10.5 application.
4. There was no rust detected in any plots on 5-22-06.
5. Disease ratings were made earlier than scheduled as wheat was reaching maturity.
6. Harvested 6-14-06, (7) 7.5 inch rows by 25 ft.