

Evaluation of Foliar Fungicides on HRSW at Hettinger

Treatment	Application Timing	Product Rate oz/Ac	Leaf Rust		Stripe Rust	Tan Spot		Test Weight Lbs/bu	Grain Yield Bu/Ac	
			Inc.	Sev	Inc.	Inc.	Sev.			
1	Untreated		92	3	45	85	1	47.8	13.8	
2	Headline	4 leaf	60	2	20	85	1	46.9	16.9	
3	Headline + Puma + Bronate Adv.	4 leaf	3 + 10.6 + 12.8	60	2	18	92	2	47.2	15.5
4	Headline / Folicur	4 leaf / flowering	3 / 4	22	1	8	78	1	48.3	17.7
5	Headline / Caramba + NIS	4 leaf / flowering	3 / 13.5 + 0.25%	85	3	20	75	1	46.2	18.3
6	Headline / Headline + NIS	4 leaf / Flag leaf	3 / 3 + 0.25%	60	2	28	88	1	48.8	17.2
7	Headline / Headline + NIS	4 leaf / Flag leaf	3 / 6 + 0.25%	92	2	22	65	2	48.5	16.8
8	Headline + NIS	Flag leaf	6 + 0.25%	32	1	18	85	2	48.9	18.7
9	Caramba + NIS	Flag leaf	13.5 + 0.25%	80	2	25	66	1	48.8	18.5
10	Caramba + NIS	Flowering	13.5 + 0.25%	62	1	8	85	2	48.4	17.5
11	Tilt	4 leaf	2	0	5	20	1	48.5	15.2	
12	Tilt + Puma + Bronate Adv.	4 leaf	2 + 10.6 + 12.8	78	2	42	62	1	48.0	16.3
13	Stratego	4 leaf	5	70	2	8	62	2	46.0	15.4
14	Stratego + Puma + Bronate Adv.	4 leaf	5 + 10.6 + 12.8	68	2	18	62	1	47.6	16.2
15	Tilt / Folicur	4 leaf / flowering	2 / 4	55	1	0	48	1	47.3	16.4
16	Stratego / Folicur	4 leaf / flowering	5 / 4	72	3	10	55	1	45.8	17.4
17	Folicur	Flowering	4	15	1	8	75	1	49.4	16.5
Trial Mean				59	2	18	70	1	47.8	16.7
C.V. %				26.7	50.5	55.7	23.4	40.9	2.5	6.2
LSD .05				22	1	14	23	NS	1.7	1.5
LSD .01				30	2	19	31	NS	2.3	2.0

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Reeder hard red spring wheat was seeded on April 18. Treatments 2 through 7 and 11 through 16 were applied on June 3 to wheat in the 4 leaf growth stage. Treatments 6 through 9 were applied on June 21 to wheat in the flag leaf growth stage. Treatments 4, 5, 10, 15, 16 and 17 were applied on June 30 to flowering wheat. Treatments were applied with a tractor mounted CO² propelled plot sprayer delivering 20 gpa at 40 psi to 5 foot wide by 20 foot long plots. The experiment was a randomized complete block design with four replications. Plots were evaluated for foliar diseases on the flag leaf on July 5. The trial was harvested on August 5.

Summary

Leaf rust, stripe rust and tan spot were observed on most plants, however, their severity of infection was very minor. Hot and dry weather conditions throughout much of the growing season was not conducive to disease progression or crop production. Most fungicide treatments significantly lowered the incidence of leaf and stripe rust but not tan spot. Grain yields were significantly higher than the untreated check for all fungicide treatments with the exception of Tilt applied alone (trt 11). Interestingly, this was the only treatment that appeared to provide complete control of leaf rust and very good control of stripe rust and tan spot. In general, test weights and grain yields did not correspond to the level of foliar disease control in this trial.