

On Farm Research Replicated Trial Results 2007 Wheat Plot
Plot Location: Road T intersection North of Swanton
Variety: Millenium
Fungicide and Nutripak Sprayed Post by UNL Professor Steven Wegulo

Treatment	Rate		
Check	--	65	bu/acre
Headline	6oz	70	bu/acre non-significant 95% level
Headline plus Nutripak		77	bu/acre significant 95%level

plots sprayed on flagleaf May 16, 2007

**NutriPak* Prima is a soil and foliar supplement with proprietary blend of fertilizer and seaweed plant extracts from *kelp*. (*ascophyllum nodosum*). This one year, replicated data, shows a yield increase from *Nutripak* despite disease present on the flagleaf and high fertility environment.

2007 Wheat Variety Trial Results

What a year it was for wheat in Southeast and South Central Nebraska with yields all over the board. The freeze in April, the 9 to 12 inches of rain in May, the hail in the Saline Center area and the leaf rust and scab diseases made for a different kind of year in Saline County. Plus, a popular variety in Kansas and Nebraska called Jagalene, did not yield as expected compared to the last several years.

Mark Tachovsky severed as a host again for wheat agronomy plots on a farm north of Swanton. The wheat variety plot results are available at our website at www.saline.unl.edu. The winning variety was a new public variety that Dr. Baenzinger from UNL has worked on for over a decade to get to this point, called Overland. It yielded 77.3 bu/acre in the trial (small, replicated plots) and will be marketed under the name Husker Genetics--Overland. Arapahoe (an old variety) did well in a wet, high leaf rust year, Hallam, Millennium and Westbred Santa Fe were in the top group. The second tier included Agripro Art, Wahoo, Wesley, Agripro PostRock, Infinity CL, and 2137.

At Lancaster County at Mead Nebraska, Overland won the trial with 90.8 bu/ac yield. Westbred Smokey Hill, Millenium, Agripro Art, 2137, Infinity CL, Arapahoe, and Hallam made the top tier list.

It is important to look at the University of Nebraska three year averages in our trials. University of Nebraska agronomy, professor Lyn Nelson recently updated this list across Nebraska. The top variety over three years in Southeast Nebraska is Husker Genetics-- Overland

at 76.8 bu/acre. There are only two sources for this wheat this year in Nebraska, so seed supply will be short. This variety will be widely available next year. The top tier, three year average group also includes Infinity CL, Hallam, Millennium, Arapahoe, 2137, 2145, Wesley, and Wahoo. Arapahoe and 2137 are now older varieties and planted acreage in Nebraska has reflected this. Jagalene has proven in Nebraska, the leaf rust has broken with this variety. Fungicide spray is now required to prevent the rust buildup with this variety.

In the Saline County trial we sprayed Millennium for leaf rust with the fungicide called Headline. The yield of Millennium was 65 bu/acre. Headline fungicide sprayed on May 16th at the 6 oz rate had a wheat yield of 70 bu/acre (no statistical difference at the 95% confidence level) and headline plus foliar fertilizer yielded 77 bu/acre. There was not enough room in the trial for foliar fertilizer alone. The headline plus fertilizer was statistically higher yield than none applied. This is a yield increase at one location, one year. It will need further study. The Headline plus fertilizer trial gave a response where the flag leaves stayed greener longer. With the Millennium variety, no foliar disease was observed on leaves. However, leaf senescence was considerably delayed in the headline and headline plus fertilizer treated plots compared to the check plot.

Also, I had a local wheat grower report a seed germination test on his wheat of only 78%. No scab was present but it was lower test weight wheat. Wheat with scab present if kept for seed must be cleaned and treated with a fungicide. If not, the grower is at a higher risk level for seedling blight issues in the fall from the fusarium scab fungus. Seed treatment also prevents stinking smut and other seed borne diseases. For more information contact the Extension office in Saline County at 821-2151.