

NCERA-184 Small Grain Diseases Technical Committee Meeting

Date: March 18, 2015

Location: Cornell University (Ithaca, NY)

Administrative Advisor:

Dr. Kendall Lamkey (Iowa State University)

Chair:

Dr. Damon Smith

University of Wisconsin-Madison

Secretary:

Dr. Andrew Friskop

North Dakota State University

Members in Attendance:

Damon Smith (University of Wisconsin-Madison), Andrew Friskop (North Dakota State University), Erick DeWolf (Kansas State University), Nathan Kleczewski (University of Delaware), Ruth Dill-Macky (University of Minnesota), Gary Bergstrom (Cornell University), Shakuat Ali (South Dakota State University), Martin Nagelkirk (Michigan State University), Pierce Paul (Ohio State University), Jonathan Richman

Minutes:

8:00 AM – Welcome by Damon and Introductions

8:05 AM – State reports given by Wisconsin, North Dakota, Kansas, Delaware, Minnesota, New York, South Dakota, Michigan, and Ohio.

Summary:

Diseases commonly reported from the state reports were tan spot, septoria, stagonospora, bacterial leaf streak, and Fusarium Head Blight. The rise in the brewing industry has garnered interest in malting barley production (including organic) in Northeast US. This will likely stimulate an increase in discussion on barley diseases. Another area of discussion was on DON levels (and other mycotoxins) in small grain stubble with a specific interest in livestock feeding and rations.

9:55 AM – Erick DeWolf – FHB prediction model performance in 2014: How did it work and how we might improve

The development and testing of the FHB model was discussed with special considerations to case studies from 2013 and 2014. An experimental model is being evaluated for potential improvements to the current prediction model. New experimental model accounts for a wider range of genetic resistance, differentiation between wheat market classes and mean relative humidity 15 days prior to flowering. Erick encourages participants to keep updating FHB reports

using the commentary portion of the FHB Prediction Center. This will help fine-tune the model and create awareness.

10:20 AM – Paul Pierce – Fungicide application timing and impact on foliar and head diseases of small grains

Paul Pierce stimulated discussion on evaluating fungicide programs (Feekes 8, split half-rate and plant-health) with considerations to disease threshold and risks. Fungicide treatments involved either a strobilurin or triazole-based product. The presentation showcased data from trials conducted in multiple states that evaluated fungicides on flag leaf disease severity and yield response. The dependent variables assessed provided the information for an economic model based on a break-even yield point. The second half of the presentation stimulated discussion on the use of Prosaro and Caramba when applied at multiple timings (anthesis and several post-anthesis) for FHB management. The models presented will help provide economic insight on the risk and reward of making fungicide applications during the growing season.

10:50 AM – Andrew Friskop – Effectiveness of using seed treatments in small grains –

Discussion was lead on the effectiveness of using seed treatments on a regular basis. North Dakota seed treatment data from 30 trials across 9 years was presented to observe differences in stand establishment and yield. The data presented the sporadic response of seed treatments on stand and yield. Decisions on using seed treatments should be driven by seed-borne diseases. The ability of a wheat plant to tiller often will compensate stand loss. Suggestions were made to condense the data set and perform a statistical analysis.

11:15 AM – Erick DeWolf - Small Grain Fungicide Efficacy Table Edits

Fortix was suggested to be added to the fungicide efficacy table. Cooperators will provide data to evaluate the efficacy of Fortix. Quilt 200 SC was suggested to be removed from the list. Efficacy rating additions for Aproach SC and Aproach Prima SC were discussed. Efforts will be made to double-check harvest restrictions. Erick will make adjustments and send follow-up email.

11:30 AM – Business Meeting Starts

Discuss dates and location of 2016 NCERA-184 Meeting

- Coincide with APS Rust Symposium (January-March of 2016), south Florida
- Move forward with planning
- Motion by Damon to plan meeting in conjunction with APS Rust

Administrative Update – Kendall Lamkey

Kendall congratulated the group on an excellent mid-term review and indicated NCERA-184 was approved to continue for an additional 5 years. Kendall did not have much to report other than encouraging the group to keep up the good work.

Approve Minutes from 2014 meeting

- motion by Damon to approve

- Second – Erick DeWolf
- passed by voice vote

Administrative Update – Martin Draper

An opportunity to apply for increased funding in AFRI under the programs of ARDP, Critical Ag Research and Extension. The Critical Ag Research Extension (CARE) was suggested as an appropriate funding source for the group as the program is geared at applied work with considerations to stakeholder support, research and Extension. Research project ideas need to be geared towards producers and be under the disciplines of plant protection or animal production. Another AFRI program is the exploratory program that is a rolling program (no closing date), visionary and cutting edge ideas, proof of concept, innovative ideas. Final discussion with Marty focused on the REEport system.

Elect new secretary

- Dr. Nathan Klewczeski nominated
- Dr. Nathan Klewczeski accepted nomination
- unanimous decision
- passed by voice vote

Final Topics

- Fungicide x Nitrogen practices (high-value), develop uniform trial
- Develop template for state reports

12:15 pm – Meeting adjourned