**2021-22 NCERA-184 Meeting Minutes**

**Chair:** Terry Spurlock – University of Arkansas

**Secretary:** Kelsey Andersen Onofre – Kansas State University

Terry opened meeting at 8:01 am CST

**Participants (all via Zoom):**

* Bergstrom, Gary (gcb3@cornell.edu) – Cornell University;
* Bish, Mandy (Bishm@missouri.edu) – University of Missouri;
* Bradley, Carl (carl.bradley@uky.edu) – University of Kentucky;
* Duffeck, Maira – Ohio State University;
* Friskop, Andrew (Andrew.j.friskop@ndsu.edu) – North Dakota State University;
* Kelly, Heather (youngkelly@utk.edu) – University Tennessee;
* Koehler, Alyssa (akoehler@udel.edu) – University of Delaware;
* Luis, Marian (luis.12@osu.edu) – Ohio State University;
* Buckner Moraes, Wanderson (buckermoraes.1@osu.edu)- Ohio State University;
* McDonald, Dan (mcdonalddw@phenotypescreening.com) – Phenotype Screening Corporation;
* Andersen Onofre, Kelsey Anderson (andersonk@ksu.edu) – Kansas State University;
* Paul, Pierce (paul661@osu.edu) – Ohio State University;
* Smith, Damon (damon.smith@wisc.edu) – University of Wisconsin;
* Spurlock, Terry (tspurlock@uada.edu)– University of Arkansas;
* Telenko, Darcy (dtelenko@purdue.edu) – Purdue University;
* Wise, Kiersten (Kiersten.wise@uky.edu) – University of Kentucky;
* White, Nathaniel (Nathaniel.white@uky.edu) – University of Kentucky;
* Debacker Moura, Raissa (raissadmoura@ksu.edu) – Kansas State University;
* Rupp, Jessica ([jrupp@ksu.edu](mailto:jrupp@ksu.edu)) – Kansas State University;
* Ali, Shaukat ([shaukat.ali@sdstate.edu](mailto:shaukat.ali@sdstate.edu)) – South Dakota State University;
* Padget, Guy B. ([Bpadgett@agcenter.lsu.edu](mailto:Bpadgett@agcenter.lsu.edu)) – Louisiana State University;
* Erick De Wolf ([dewolf1@ksu.edu](mailto:dewolf1@ksu.edu)) – Kansas State University;
* Ken Obasa ([ken.obasa@ag.tamu.edu](mailto:ken.obasa@ag.tamu.edu)) – Texas A&M Agrilife Research;
* Stephen Wegulo (swegulo2@unl.edu) – University of Nebraska-Lincoln

1. The meeting was opened by Terry at 8:01 AM and attendees briefly introduced themselves.
2. In leu of state reports, Kelsey Andersen Onofre presented an infographic with summaries from Wisconsin, Tennessee, Arkansas, Ohio, Louisiana, Missouri, New York, Kentucky, Kansas, Indiana, Nebraska, South Dakota, Delaware, Maryland, Michigan, Ontario, and Pennsylvania. A majority of states reported below average disease levels for 2021, with stripe rust and Fusarium head blight mentioned as key diseases in multiple states. The presentation of this infographic was followed by an open discussion. One topic that was discussed by the group was the fungicide shortage for the upcoming 2022 wheat field season. It was mentioned that Caramba will be in short supply, but Sphaerex will be available. Products should be ordered as soon as possible. Marty Chilvers brought up the issue of common bunt and dwarf bunt, an issue that Michigan and Kansas have been facing over the last few years.
3. A discussion of the recent NCERA-184 project re-write was initiated by Terry Spurlock. The re-write was submitted by the deadline in December 2021. Several individuals contributed to the text. The objectives were adjusted slightly to match the current goals of the group. The new objectives (10/01/2022-09/30/2027) are as follows:
   1. Better characterize best management practices for Fusarium Head Blight and leaf diseases in wheat and barley
   2. Conduct fungicide efficacy trials for diseases in small grains
   3. Improve disease management through forecasting tools
   4. Monitor and report regional disease distributions and impact

Reviews on the re-write were overwhelmingly positive, with praise of the groups long term outputs. There was even mention that this group should be considered for an award.

1. Alyssa Koehler and Marty Chilvers provided an update for a national initiative for screening isolates of the pathogen that causes FHB for fungicide sensitivity. They have divided the country into two groups that will each screen approximately 200 isolates. Alyssa is completing a paper from an initial round of screening. Detailed sampling instructions will be sent to partner states. Marty provided additional research updates.
2. Nathanial White from University of Kentucky presented work on QoI resistance in *Parastagonospora nodorum* and *Zymoseptoria tritici*. Several isolates were collected from Kentucky and cytochrome b gene was sequenced. 46% of *P. nodorum* isolates had one mutation. Isolates with the mutation known to confer QoI resistance were germinated in a plate assay to determine EC50 values. In addition planta assays showed complete loss of control when the mutation was present. For *Z. tritici* 24% of isolates have the G143A mutation.
3. Erick De Wolf presented the updated user interface for the FHB forecasting tool that can be found at: wheatscab.psu.edu. There was general discussion about how the tool is being used for malting barley in New York and South Dakota by toggling the selection tool to “susceptible”. Erick De Wolf Also presented a project update on stripe rust forecasting models.
4. Wanderson Bucker Moraes presented a preliminary report of efficacy of two new fungicide products labeled for FHB control: Sphaerex and Prosaro Pro. Prosaro Pro introduces an SDHI (Fluopyram) to the two active ingredients that are in Prosaro (Prothioconazole + Tebuconazole). Preliminary results suggest that Prosaro Pro is at least as effective as Prosaro when applied at Feekes 10.5.1.
5. Andew Friskop discussed the initiation of a uniform fungicide protocol for foliar diseases of wheat with a core set of treatments sent out to collaborating states every spring. There was strong agreement and enthusiasm for such an initiative. Andrew and a small committee will work to collect and summarize this data annually with the goal of some publications after multiple years of data have been generated.

**Business Meeting**

1. Terry Spurlock called the meeting to order at approximately 10:45 am.
2. Alyssa Koehler motioned to accept minutes for the 2021 meeting, Pierce Paul seconded and all were in favor.
3. Kelsey Onofre asked that all reports be sent as soon as possible via the google survey.
4. The group agreed that the next annual meeting should be held the morning of Monday Feb 27th in Pensacola. Heather Kelly motioned to approve, Gary Bergstrom seconded.
5. Ken Obasa self-nominated for the position of secretary. This was approved by all attendees.
6. The meeting concluded at 11:00am CST.