

South Dakota Wheat Commission

Project Report FY2014

Project Title: SOUTH DAKOTA PLANT PATHOLOGY WORKING GROUP—
COLLABORATION AND OUTREACH ON WHEAT PATHOGENS AND
DISEASES

Sponsoring Commodity Organization: South Dakota Wheat Commission

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Research Summary

Introduction—This grant differed from the typical research grant in that it focused on the promotion of outreach publication for stakeholders and enhancing cooperation of the SDSU Plant Pathologists and Plant Pathology Extension Field Specialists through:

- Developing educational materials for stakeholders
- Enhanced coordination of wheat research and outreach projects
- Enhanced ability to identify outreach needs, and
- Enhanced interaction between researchers and field specialists.

Description of Accomplishments—Educational materials are necessary for strong informational distribution to wheat stakeholders across the state. These materials include both printed and electronic versions in order to reach the maximum audience. Educational materials developed or acquired for this purpose include:

- *Common Root and Crown Rot Diseases of Wheat in South Dakota*—This outreach publication was published in print and an electronic format on iGrow (<http://igrow.org/up/resources/03-2015-2013.pdf>) as the following reference:
 - Byamukama, E., Shaukat, A., Langham, M., K. Ruden, Fanning, B., and Strunk, C. 2013. Common root and crown rot diseases of wheat in South Dakota. South Dakota State University, SDSU Extension, Brookings, SD. Publication number 03-2015-2013. <http://igrow.org/up/resources/03-2015-2013.pdf>. Based on original publication by Draper, M., Stymiest, C., and Jin, Y. 2000.

The printed format of this publication was printed through this funding.

- *Purchase of Wheat Educational Materials*—A group of educational materials on wheat became available. It became available and was determined to be needed for planned educational outreaches to wheat stakeholders. However, best decisions do not always turn out in the end. The materials were order, but their shipment and invoicing was delayed. The invoicing was delayed so much that by the time it had arrived the accountants had closed this grant account. Thus, we had to find alternate

funding to pay for the materials, and we have arranged for the money left in the grant to be returned to the South Dakota Wheat Commission.

- *Other Materials*—While waiting for the materials discussed above, we did not charge any other publications to this grant as the final shipping costs could not be determined until it was shipped. However, we proceeded with other publications and materials that required little funding (publications that are only electronic) or for which alternate sources of funding could be found. Thus, the following represent a few of these publications and other materials. I have included them so that you will know that even though we were delayed in use of the funding from our original plans that we still focused providing outreach to the wheat stakeholders in South Dakota.
 - Byamukama, E., Langham, M., and Fanning, B. 2013. Wheat streak mosaic virus appearing in some fields at significant levels. SDSU-iGrow <http://igrow.org/agronomy/wheat/wheat-streak-mosaic-virus-appearing-in-some-fields-at-significant-levels/>.
 - Byamukama, E., Strunk, C., Fanning, B. and Langham, M. 2013. Eliminate the “green bridge” to control wheat curl mite transmitted viruses. SDSU-iGrow <http://igrow.org/agronomy/wheat/eliminate-the-green-bridge-to-control-wheat-curl-transmitted-viruses/>.
 - Byamukama, E., and Fanning, B. 2014. Scout for root/crown rot diseases in wheat. SDSU-iGrow. <http://igrow.org/agronomy/wheat/scout-for-root-crown-rot-diseases-in-wheat/>.
 - Strunk, C. 2013. Ergot. SDSU-iGrow. <http://igrow.org/agronomy/wheat/ergot/>.
 - Langham, M. A. C. 2014. Wheat streak mosaic evaluation nursery. (An educational flash video about WSMV and the role of the evaluation nursery). (Second review stage).

Projections/Summary: Our plans for developing stakeholder materials were disrupted when invoices were delayed until after the accountants had closed the grant account. Thus, we are returning the majority of funds that we had requested. However, the invoice problems did not stop our need to produce outreach materials for wheat stakeholders, and I have included a few of the alternate

materials that we published in order to demonstrate this continued commitment. We are all sincerely appreciative of the SDWC's support of our outreach goals, and we are disappointed that we did not achieve all our goals. Thus, we did not request additional funding for this in the FY15 funding cycle.