

Small Grains Disease-related Publications by NCERA 184 Members

Refereed Publications:

Baenziger, P. S., Graybosch, R. A., Nelson, L. A., Klein, R. N., Baltensperger, D. D., Xu, L., Wegulo, S. N., Watkins, J. E., Jin, Y., Kolmer, J., Hatchett, J. H., Chen, M-S., and Bai, G. 2009. Registration of 'Camelot' wheat. *J. Plant Registrations* 3:256-263.

Baenziger, P.S., Graybosch, R. A., Nelson, L. A., Regassa, T., Klein, R. N., Baltensperger, D. D., Santra, D. K., Ibrahim, A. M. H., Berzonsky, W., Krall, J. M., Xu, L., Wegulo, S. N., Bernards, M. L., Jin, Y., J. Kolmer, J., Hatchett, J. H., Chen, M-S, and Bai, G. 2010. Registration of b'NH03614 CL' Wheat. *J. Plant Registrations* (in press).

Bonin, C.M. and F.L. Kolb. 2009 Resistance to Fusarium Head Blight and Kernel Damage in a Winter Wheat Recombinant Inbred Line Population. *Crop Sci.* 49:1304-1312.

Dill-Macky, R. (2009). Fusarium head blight: A global threat to food safety in cereals. *Bioforsk Fokus*, 4:138-139.

Kabbage, M., Leslie, J. F., Hulbert, S. H., and Bockus, W. W. 2009. Comparison of natural populations of *Mycosphaerella graminicola* from single fields in Kansas and California. *Physiological and Molecular Plant Pathology*. 74:55-59/ doi:10.1016/j.pmpp.2009.002 (KAES #07-205 J)

Madden, L. V., and Paul, P. A. 2009. Assessing heterogeneity in the relationship between wheat yield and Fusarium head blight intensity using random-coefficient mixed models. *Phytopathology* 99:850-860.

Markell, S. G., Griffey, C. A., and Milus, E. A. 2009. Inheritance of resistance to stripe rust in three lines of soft red winter wheat. *Crop Science* 49:521-528.

McMullen, M. 2010. Tan spot (Yellow Leaf Spot) Chapter. Pages 82-84 in: B. Bockus, R. Bowden, R. Hunger, W. Morrill, T. Murray, and R. Smiley, eds. *Compendium of Wheat Diseases*. APS Press, St. Paul, MN.

McMullen, M. 2010. Melanism (Pseudo-Black Chaff) Chapter. Pages 149-150 in: B. Bockus, R. Bowden, R. Hunger, W. Morrill, T. Murray, and R. Smiley, eds. *Compendium of Wheat Diseases*. APS Press, St. Paul, MN.

Milus, E.A., Kristensen, K., and Høvmøller, M.S. 2009. Evidence for increased aggressiveness in a recent widespread strain of *Puccinia striiformis* f. sp. *tritici* causing stripe rust of wheat. *Phytopathology* 99:89-94.

Markell, S. G., Griffey, C. A., and Milus, E. A. 2009. Inheritance of resistance to stripe rust in three lines of soft red winter wheat. *Crop Science* 49:521-528.

Milus, E. A., Cartwright, R. D., Rothrock, C. S., Anders, M., and Slaton, N. 2009. Impact of cropping sequences and alternative hosts on take-all management of winter wheat in Arkansas. Online. Plant Health Progress doi:10.1094/PHP-2009-0512-02-RS.

Paul, P.A., McMullen, M. P., Hershman, D.E., and Madden, L. V. 2010. Meta-analysis of the effects of triazole-based fungicides on wheat yield and test weight as influenced by *Fusarium* head blight intensity. *Pytopathology* 100:160-171.

Sidiqi, J., Read, P. E., Wegulo, S. N., and Baenziger, P. S. 2009. Frequency of resistance to stem rust race TPMK in Afghan wheat cultivars. *Can. J. Plant Pathol.* 31:250-253.

St. Pierre, S.L, Gustus, C., Steffenson, B.J., Dill-Macky, R. and Smith, K.P. (2010). Mapping net form net blotch and *Septoria* speckled leaf blotch resistance loci in barley. *Phytopathology*, 100:80-84.

Wegulo, S. N., Breathnach, J. A., and Baenziger, P. S. 2009. Effect of growth stage on the relationship between tan spot and spot blotch severity and yield in winter wheat. *Crop Prot.* 28:696-702.

Tatineni, S., Graybosch, R. A., Hein, G. L., Wegulo, S. N., and French, R. 2010. Wheat cultivar-specific disease synergism and alteration of virus accumulation during coinfection with *Wheat streak mosaic virus* and *Triticum mosaic virus*. *Phytopathology* 100:230-238.

Tatineni, S., Ziemas, A., Wegulo, S. N., and French, R. 2009. *Triticum mosaic virus*: A distinct member of the family Potyviridae with an unusually long leader sequence. *Phytopathology* 99:943-950.

Abstracts, Edited Scientific Reports, and Proceedings:

Ali, S., McMullen, M., and Zhong, S. 2009. Aggressiveness and DON production of *Fusarium graminearum* 3ADON and 15ADON populations as affected by wheat cultivar resistance and fungicide treatment under ND field conditions, 2009. Pages 19-21 in: S. Canty, A. Clark, J. Mondell, E. Walton, D. Ellis and D. Van Sanford (Eds), Proc. 2009 National Fusarium Head Blight Forum, Dec. 7-9, 2009. Orlando, FL. University of Kentucky, Lexington, KY.

Bergstrom, G.C., K.D. Waxman, D.G. Schmale III, C.A. Bradley, L.E. Sweets, S.N. Wegulo and M.D. Keller. 2009. Effects of within-field corn debris in microplots on FHB and DON in ten U.S. wheat environments in 2009. Proceedings of the 2009 National Fusarium Forum, Orlando, FL, December 7-9, 2009. P. 22. Abstract in proceedings and poster at forum.

Bradley, C.A., Adey, E.A., Ebelhar, S.A., Grybauskas, A.P., Hollingsworth, C.R., Kirk, W.W., McMullen, M.P., Milus, E.A., Osborne, L.E., Ruden, K.R., and Young, B.G. 2009. Application timings of Caramba and Prosaro foliar fungicides for management of FHB and DON. Page 34 in: S. Canty, A. Clark, J. Mondell, E. Walton, D. Ellis and D. Van Sanford (Eds), Proc. 2009 National Fusarium Head Blight Forum, Dec. 7-9, 2009. Orlando, FL. University of Kentucky, Lexington, KY.

Bradley, C.A., Adee, E.A., Ebelhar, S.A., Grybauskas, A.P., Hollingsworth, C.R., Kirk, W.W., McMullen, M.P., Milus, E.A., Osborne, L.E., Ruden, K.R., and Young, B.G. 2009. Effect of pyraclostrobin applications to wheat at different growth stages on DON concentrations in grain. Page 35 in: S. Canty, A. Clark, J. Mondell, E. Walton, D. Ellis and D. Van Sanford (Eds). Proc. 2009 National Fusarium Head Blight Forum, Dec. 7-9, 2009. Orlando, FL. University of Kentucky, Lexington, KY.

Bockus, W. W., Baenziger, P. S., and Ibrahim, A. M. H. 2009. Reaction of Kansas, Nebraska, and South Dakota winter wheat accessions to Fusarium head blight (FHB), 2008. Plant Disease Management Reports (online). Report 3:CF006. DOI:10.1094/PDMR03 The American Phytopathological Society, St. Paul, MN.

Bockus, W. W., and Davis, M. A. 2009. Reaction of selected Kansas winter wheat cultivars to barley yellow dwarf, 2008. Plant Disease Management Reports (online). Report 3:CF004. DOI:10.1094/PDMR03. The American Phytopathological Society, St. Paul, MN.

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Bockus, W. W. De Wolf, E., and Wegulo, S. N. 2009. Host resistance correlated with the amount of DON reduction with fungicide on winter wheat, 2008. Plant Disease Management Reports (online). Report 3:CF008. DOI:10.1094/PDMR03. The American Phytopathological Society, St. Paul, MN

Bockus, W. W., Eddy, R. E., and De Wolf, E. D. 2009. Evaluation of foliar fungicides for control of tan spot and leaf rust of winter wheat, 2008. Plant Disease Management Reports (online). Report 3:CF005. DOI:10.1094/PDMR03. The American Phytopathological Society, St. Paul, MN.

Bockus, W. W., Fritz, A. K., and Martin, T. J. 2009. Reaction of the 2008 Kansas Intrastate Nursery to Fusarium head blight. Plant Disease Management Reports (online). Report 3:CF009. DOI:10.1094/PDMR03. The American Phytopathological Society, St. Paul, MN

Crane, J.M., D.M. Gibson, and G.C. Bergstrom. 2009. Ecology of *Bacillus subtilis* on wheat florets in relation to biological control of FHB/DON. Page 39 in Proc. 2009 National Fusarium Head Blight Forum, Wyndham Orlando Resort, Orlando, FL, Dec7-9, 2009.

Bergstrom, G.C., K.D. Waxman, D.G. Schmale III, C.A. Bradley, L.E. Sweets, S.N. Wegulo, and M.D. Keller. 2009. Effects of within-field corn debris in microplots on FHB and DON in ten U.S. wheat environments in 2009. Page 22 in Proc. 2009 National Fusarium Head Blight Forum, Wyndham Orlando Resort, Orlando, FL, Dec7-9, 2009.

Bradley, C. A., Adee, E. A., Ebelhar, S. A., Grybauskas, A. P., Hollingsworth, C. R., Kirk, W. W., McMullen, M. P., Milus, E. A., Osborne, L. E., Ruden, K. R., and Young, B. G. 2009.

Application timings of Caramba and Prosaro foliar fungicides for management of FHB and DON. Proc. 2009 National Fusarium Head Blight Forum, Orlando, FL, p. 34.

Bradley, C. A., Adey, E. A., Ebelhar, S. A., Grybauskas, A. P., Hollingsworth, C. R., Kirk, W. W., McMullen, M. P., Milus, E. A., Osborne, L. E., Ruden, K. R., and Young, B. G. 2009. Effect of pyraclostrobin applications to wheat at different growth stages on DON concentrations in grain. Proc. 2009 National Fusarium Head Blight Forum, Orlando, FL, p. 35.

Dahleen, L., Dill-Macky, R., Shah, J., Muehlbauer, G., Skadsen, R., Manoharan, M., Abebe, T. and Jurgenson, J. (2009). Transgenic field trials for FHB resistance and related research in wheat and barley. In: *Proceedings of the 6th Canadian Workshop on Fusarium Head Blight Forum*, Ottawa, Ontario, CANADA, November 1-4, 2009, p. 38.

De Wolf, E., Knight, P., Miller, D., Paul, P., and Madden, L., 2009. Evaluating the use and potential impact of Fusarium head blight prediction models in the U.S., 2009. In: Canty, S. M., A. Clark, J. Mundell, E. Walton, D. Ellis, and D. A. Van Sanford (Eds.), *Proceedings of the National Fusarium Head Blight Forum; 2009 Dec 7-9; Orlando, FL*. Lexington, KY: University of Kentucky. pp. 40.

Dill-Macky, R., Wennberg, K.J., Scanlan, T.C., Muehlbauer, G.J., Shin, S., Shah, D., Kaur, J. and Dahleen, L.S. (2009). Testing transgenic spring wheat and barley lines for reaction to Fusarium head blight: 2009 field nursery report. In: *Proceedings of the 2009 National Fusarium Head Blight Forum*, Orlando, Florida, USA, December 7-9, 2009, p. 189.

Gale, L.R., Dill-Macky, R., Anderson, J.A., Smith, K.P. and Kistler, H.C. (2009). Aggressiveness and mycotoxin potential of U.S. *Fusarium graminearum* populations in field-grown wheat and barley. In: *Proceedings of the 2009 National Fusarium Head Blight Forum*, Orlando, Florida, USA, December 7-9, 2009, p. 173.

Gautam, P. and Dill-Macky, R. (2009). Pre-harvest moisture impacts wheat quality through Fusarium head blight (FHB) development and deoxynivalenol (DON) accumulation. *Phytopathology*, 99:S159.

Harrison, S.A., Arceneaux, K., Bell, B., Boquet, G., Colyer, P.D., Mildred, D., Harrell, D., Hayes, J., Leonards, J., Mascagni, H., Moore, S., Padgett, B., Purvis, M., Regan, R., Schexnayder, G., Viator, H.P., and Williams, G. 2009 Small grain performance trials. LAES Research Summary. No 178.

Hernandez Nopsa, J., and Wegulo, S.N. 2009. Reaction of winter cultivars to Fusarium head blight severity and Deoxynivalenol. Pages 56-57 in: Proc. 2009 Natl. Fusarium Head Blight Forum. (abstr.).

Hernandez Nopsa, J., and Wegulo, S.N. 2009. Relationship between Fusarium head blight severity and Deoxynivalenol concentration in three winter wheat cultivars. Page 58 in: Proc. 2009 Natl. Fusarium Head Blight Forum. (abstr.).

- Hernandez Nopsa, J., and Wegulo, S.N. 2009. Effect of cultivar on the relationship between Fusarium head blight severity and deoxynivalenol concentration in winter wheat. *Phytopathology*. 99: S53. (abstr.).
- Hernandez Nopsa, J. and Wegulo, S.N. 2010. Correlation between Fusarium head blight severity and deoxynivalenol in three winter wheat cultivars. *Phytopathology* 100:S186 (abstr.).
- Hernandez Nopsa, J., and Wegulo, S. N. 2010. Evaluation of winter wheat cultivars for resistance to Fusarium head blight and deoxynivalenol. *Phytopathology* 100:S50 (abstr.).
- Horevaj, P., and Milus, E. A. 2009. Level of Fusarium mycotoxins in wheat grain highly associated with percentage of scabby kernels. Page 122 in: *Proceedings of the 2009 National Fusarium Head Blight Forum*. Orlando, FL.
- Horevaj, P., and Milus, E. A. 2009. Resistance in winter wheat to Fusarium head blight. *Phytopathology* 99:S159. (invited symposium presentation)
- Karplus, N. H., Brucker, E. A., Bradley, C. A., and Kolb, F. L. 2009 Evaluation of host plant resistance and fungicide treatment for suppression of Fusarium Head Blight. *Proc. 2009 Fusarium Head Blight Forum*, Orlando, FL, p. 129.
- Kolb, F. 2009. Fusarium head scab ratings of varieties. Online (<http://vt.cropsci.illinois.edu/wheat.html>)
- Kolb, F. L. 2009. Successes in development of Fusarium head blight resistant soft red wheat varieties using phenotypic selection. *Proc. 2009 National Fusarium Head Blight Forum*, Orlando, FL, p. 131.
- Kriss, A. B., Madden, L. V., and Paul, P. A. 2009. Multi-state assessment using window pane analysis confirming weather variables related to Fusarium head blight epidemics. In: Canty, S. M., A. Clark, J. Mundell, E. Walton, D. Ellis, and D. A. Van Sanford (Eds.), *Proceedings of the National Fusarium Head Blight Forum; 2009 Dec 7-9; Orlando, FL*. Lexington, KY: University of Kentucky. pp. 60.
- Kriss, A. B., Madden, L. V., Paul, P. A. 2009. More than 40 years of observations from Ohio confirm the importance of relative humidity and precipitation for Fusarium head blight epidemics. *Phytopathology* 99:S67.
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- Lackermann, K., Gaska, J., Martinka, M., Conley, S., and Esker, P. 2009. Effect of variety, location, and environment on development of Fusarium head blight in soft red winter wheat in Wisconsin. *National Fusarium Head Blight Forum*, Orlando, FL.

Li., C., Paul, P. , Guttieri, M. , Madden, L., and Sneller, C. 2009. A PCR-based Approach to Characterizing Resistance Responses of Soft Red Winter Wheat Cultivars to *Fusarium graminearum* Infection. *Phytopathology* 99:S72.

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McMullen, M., Jordahl, J., and Meyer, S. 2009. Uniform fungicide trial results on HRS wheat and spring barley, Fargo, ND 2009. Page 69 in: S. Canty, A. Clark, J. Mondell, E. Walton, D. Ellis and D. Van Sanford (Eds), Proc. 2009 National Fusarium Head Blight Forum, Dec. 7-9, 2009. Orlando, FL. University of Kentucky, Lexington, KY.

Milus, E. A. 2009. Comparison of old and new strains of *Puccinia striiformis* f. sp. *tritici* for ability to initiate epidemics from overwintering infections and for ability to infect at high temperature. Page 21 in: Proceedings of the 12th International Cereal Rusts and Powdery Mildews Conference. Antalya, Turkey. (invited presentation)

Milus, E. A. 2009. Resistance in wheat to barley yellow dwarf. Page 4 in: Proceedings of the 2009 Eastern Wheat Workers / Southern Small Grain Workers / NCERA-184 Conference. Baltimore, MD. (Invited presentation)

Milus, E. A. and Sthapit, J. 2009. Characterization of adult-plant resistance in soft red winter wheat to stripe rust. Page 51 in: Proceedings of the 12th International Cereal Rusts and Powdery Mildews Conference. Antalya, Turkey. (invited presentation)

Milus, E. A., Moon, D., and Rohman, P. 2009. Evaluations for FHB severity, Fusarium-damaged kernels, DON content, types I and II resistance in the greenhouse, and *Septoria tritici* blotch resistance. Pages 9, 13, 16, 17 and 23, respectively, in: 2009 Southern Uniform Winter Wheat Scab Nursery Report. J.P. Murphy and R.A. Navarro, editors.

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Padgett, G.B. and Purvis, M.A. 2009. The impact of selected fungicides and application timing on leaf rust development in Louisiana wheat, 2008. *Plant Disease Management Reports* (online). Report 3:CF002. DOI:10.1094/PDMR03. The American Phytopathological Society, St. Paul, MN.

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Rottinghaus, G.E., B.K. Tacke, T.J. Evans, M.S. Mostram, L.E. Sweets and A.L. McKendry. 2009. Fusarium mycotoxin concentrations in the straw, chaff and grain of soft red winter wheats expressing a range of resistance to Fusarium head blight. *Proceedings of the 2009 National Fusarium Forum, Orlando, FL, December 7-9, 2009*. P.10. Abstract in proceedings and poster at forum.

Salgado, J. D., Wallhead, M. W., Madden, L. V. and Paul, P. A. 2009. Effect of varying combine harvester configurations on Fusarium damaged kernels (FDK) and deoxynivalenol accumulation in wheat grain harvested from plots with different levels of Fusarium head blight. In: Canty, S. M., A. Clark, J. Mundell, E. Walton, D. Ellis, and D. A. Van Sanford (Eds.), *Proceedings of the National Fusarium Head Blight Forum; 2009 Dec 7-9; Orlando, FL*. Lexington, KY: University of Kentucky. pp. 75-79.

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Sthapit, J., and Milus, E. A. 2009. Characterization of adult-plant resistance in soft red winter wheat to stripe rust. *Phytopathology* 99:S125.

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Waxman, K.D., G.C. Bergstrom, P.M. Atkins, and W.J. Cox. 2009. Evaluation of fungicide and insecticide seed treatments of winter wheat in New York, 2008. *Plant Disease Management Reports* 3:CF025.

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