

PERSONNEL RECORD

JOCHUM J. WIERSMA

Updated November 17, 2005.

I. Name: Jochum J. Wiersma **Rank:** Assistant Professor

Personnel Action Form (PAF) Appointment: T - 15%; R - 15%; E - 70%

Graduate School Appointment(s) and date(s):

University of Minnesota – Applied Plant Sciences (full member) 2000–present.
North Dakota State University – Plant Pathology (adjunct member) 2001–present.

II. Date and Place of Birth: May 22, 1967, Leeuwarden, THE NETHERLANDS

III. Educational History:

<u>Name of Institution</u>	<u>Year</u>	<u>Major</u>	<u>Degree</u>
Wageningen Agricultural University	1991	Plant Breeding	Ir.
University of Minnesota	1995	Plant Breeding	Ph.D.

IV. Professional Positions:

<u>Employer</u>	<u>Dates</u>	<u>Position</u>
University of Minnesota	3/95-6/97	Assistant Professor, Small Grains Specialist (annual renewable)
University of Minnesota	7/97-6/04	Assistant Professor, Small Grains Specialist (tenure track)
University of Minnesota	7/04-present	Assistant Professor, Small Grains Specialist (annual renewable)

V. Professional Organizations and Honor Societies:

Crop Science Society of America; 1991-present.
American Society of Agronomy; 1991-present.

VI. Honors and Awards and Dates Received:

Agri-Pro Wheat Seed Award; 1997.

VII. Names and dates of committee and other professional activities:

Department

Crop Variety Review Committee; 1997-present.

College and Institute

Coordinator, NWROC Field Day; 1997-present.

Director Institute for Ag Professionals; 2005-present.

Member, Strategic Planning Group for Agricultural Production Systems; 2000 – 2001.

Member, COAFES Implementation Team for Enhanced Agricultural Production; 2001-2002.

Member Search Committee Associate Dean for Extension, 2002.

Member Search Committee Extension Plant Pathologist, 2002.

Member Search Committee Regional Extension Educator, 2004

Reviewer, University of Minnesota Extension Service Crops Team; 1999-present.

University

Search Committee, Ag Division Lecturer; 1996.

State

Minnesota Crop Improvement Association - Agronomic Certification Committee; 1998-2001.

Minnesota Wheat Research and Promotion Council - Research and Communications Committee; 1995-present.

Small Grains Institute; 1995-present.

Regional, National and International

Wheat Industry Resource Committee; 1995-present.
Secretary, Wheat Industry Resource Committee; 1997-1998.
Chair-elect, Wheat Industry Resource Committee; 1998-1999.
Chair, Wheat Industry Resource Committee; 1999-2000.

National Wheat Improvement Committee; 1997-2000.

VIII. Publications:

A. Professional Journal Articles and other Refereed Publications

1. Wiersma, J.J., R.H. Busch, G.G. Fulcher, and G.A. Hareland. 2001. Recurrent Selection for Kernel Weight in Spring Wheat. *Crop Sci.* 41:999-1005.
2. Wiersma, J.J., D. Duvick, D.D. Stuthman, D. Fan, and V. Konde. 2002. Hybrid Corn: A Case Study for Bioethics. In: *Life Science Ethics*. C. Comstock, editor. ISU Press. 380pp.
3. Wiersma, J.J. 2002. Determining an optimum seeding rate for spring wheat in northwest Minnesota. Online. *Crop Management* doi:10.1094/CM-2002-0510-01-RS.
4. Wiersma, J.J., K.B. Martinson, and B.R. Durgan. 2002. Hard Red Spring Wheat (*Triticum aestivum*) Tolerance to Postemergence Grass Herbicides. *Weed Technology* 17:297-301.
5. Wiersma, J.J. 2003. Current barley disease and pest concerns and their control measures. In: *Brewing Chemistry and Technology in the Americas*. P.Gales, editor (in print). American Society of Brewing Chemists. St. Paul, MN.
6. Wiersma, J. J., and Kandel, H. J. 2004. The response of *Fusarium graminearum* infected seed of hard red spring wheat to Vitavax Extra RTU and Dividend XL seed treatments. Online. *Plant Health Progress* doi:10.1094/PHP-2004-0416-01-RS.
7. Wiersma, J.J. and C.D. Mottberg. 2004. Evaluation of five fungicide application timings for control of leaf spotting diseases and Fusarium Head Blight in Hard Red Spring Wheat. *Can. J. Plant Pathol.* Vol. 27: 25-27.
8. Anderson J.A., R.H. Busch, D.V. McVey, J.A. Kolmer, G.L. Linkert, J.V. Wiersma, R. Dill-Macky, J.J. Wiersma, and G.A. Hareland. 2005. Registration of 'Oklee' wheat. *Crop Sci. Crop Science.* 45:784-785.
9. Wiersma, J.J., C. Sheaffer, G. Nelson, D. Wyse, K. Betts. 2005. Intercropping Legumes in Hard Red Spring Wheat under Semi-Arid Conditions. Online. *Crop Management* doi:10.1094/CM-2005-0119-01-RS.

B. Other Peer Reviewed Research Reports and Articles

1. Wiersma, J.J., and J.H. Cameron. 2003. Minnesota 2001 Spring Wheat Variety Trial Results – Red River On-Farm. Online. Crop Management.
2. Wiersma, J.J., and J.H. Cameron. 2003. Minnesota 2002 Spring Wheat Variety Trial Results – Red River On-Farm. Online. Crop Management.
3. Wiersma, J.J., and J.V. Cameron. 2003. Minnesota 2003 Spring Wheat Variety Trial Results – Red River On-Farm. Online. Crop Management.
4. Durgan, B.R., J.J. Wiersma, J.H. Cameron, and D.W. Miller. 2003. Hard red spring wheat and barley tolerance to postemergence herbicides at Crookston, MN - 2003. North Central Weed Science Society Research Report:35-39.
5. Durgan, B.R., J.J. Wiersma, and D.W. Miller. 2003. Hard red spring wheat and barley tolerance to postemergence herbicides at Rosemount, MN - 2003. North Central Weed Science Society Research Report: 29-35.
6. Wiersma, J.J., and J.H. Cameron. 2004. Minnesota 2004 Spring Wheat Variety Trial Results – Red River On-Farm. Online. Crop Management.
7. Durgan, B.R., J.J. Wiersma, J.H. Cameron, and D.W. Miller. 2004. Hard red spring wheat and barley tolerance to postemergence herbicides at Crookston, MN - 2004. North Central Weed Science Society Research Report.
8. Durgan, B.R., J.J. Wiersma, and D.W. Miller. 2004. Hard red spring wheat and barley tolerance to postemergence herbicides at Rosemount, MN - 2004. North Central Weed Science Society Research Report.
9. Wiersma, J.J., B.R. Durgan, and J.H. Cameron. 2004. Potential for crop injury in spring wheat when tank mixing certain fungicides with common herbicides at Crookston, MN. North Central Weed Science Society Research Report.
10. Durgan, B.R., J.J. Wiersma, J.H. Cameron, and D.W. Miller. 2005. Hard red spring wheat and barley tolerance to postemergence herbicides at Crookston, MN - 2005. North Central Weed Science Society Research Report (in print).
11. Durgan, B.R., J.J. Wiersma, and D.W. Miller. 2005. Hard red spring wheat and barley tolerance to postemergence herbicides at Rosemount, MN - 2005. North Central Weed Science Society Research Report (in print).
12. Wiersma, J.J., and J.H. Cameron. 2005. Minnesota 2005 Spring Wheat Variety Trial Results – Red River On-Farm. Online. Crop Management (submitted).
13. Wiersma, J.J., B.R. Durgan, and J.H. Cameron. 2005. Efficacy and crop safety of trinexapac-ethyl to reduce plant height and improve straw strength in spring wheat in 2005 at Crookston, MN. North Central Weed Science Society Research Report (in print).
14. Wiersma, J.J., B.R. Durgan, and J.H. Cameron. 2005. Potential for crop injury and reduced control of wild oat in spring wheat when tank mixing several fungicides with several common grass and broadleaf herbicides in 2005 at Crookston, MN. North Central Weed Science Society Research Report (in print).
15. Wiersma, J.J., B.R. Durgan, and J.H. Cameron. 2005. Potential for crop injury in spring wheat when tank mixing several fungicides with several common grass and broadleaf herbicides in 2005 at Crookston, MN. North Central Weed Science Society Research Report (in print).

C. Abstracts and Proceedings

1. Wiersma, J.J., R.H. Busch, G. Hareland, and R.G. Fulcher. 1993. Eight Cycles of Recurrent Selection in Hard Red Spring Wheat. Agron. Abstracts. p. 105.
2. Wiersma, J.J., B. Brorson, and K. Versdahl. 1997. Small Grains Website: From Idea to Current Usage. Agron. Abstracts, p. 24.
3. Wiersma, J.J. 1998. Delivery of Extension Publications Using the World Wide Web: Two Case Studies. Agron. Abstracts, p. 27.
4. Wiersma, J.J. 1998. Introduction to the Internet. Proceedings of the 1st Annual National Wheat Industry Research Forum, p. 15.
5. Wiersma, J.J. 1998. Delivery of Extension Publications Using the World Wide Web: Two Case Studies. Agron. Abstracts, p. 27.
6. Wiersma, J.J. and L. Osborne. 1999. Real time Growing Degree Information and Decision Support for Spring Wheat Using the World Wide Web. Proceedings of the 2nd Annual National Wheat Industry Research Forum, p. 63.
7. Martinson, K.B., B. R. Durgan, and J. J. Wiersma. 2000. Hard red spring wheat (*Triticum aestivum* L.) and barley (*Hordeum vulgare* L.) tolerance to postemergence herbicides. Proc. of the North Central Weed Science Society. 55:93-94.
8. Wiersma, J.J. and I.V. MacRae. 2000. Interpreting Yield Data Using Geographic Information Systems and Spatial Statistics. Proceedings of the 3rd Annual National Wheat Industry Research Forum, p. 81.
9. Martinson K.L., B.R. Durgan, and J.J. Wiersma. 2001. Weed Control and Crop Tolerance to Flucarbazone. Proc. of the North Central Weed Science Society. 56.
10. Wiersma, J.J. 2001. Variety Specific Seeding Rates. Proceedings of the 4th Annual National Wheat Industry Research Forum. p. 58.
11. Kaping S.M., B.R. Durgan, K.L. Martinson, and J.J. Wiersma . 2002. Weed control and crop tolerance in glyphosate resistant wheat. Proc. of the North Central Weed Science Society.
12. Salas B., R. Dill-Macky, and J.J. Wiersma. 2002. Incidence of *Fusarium graminearum* and *Cochliobolus sativus* in wheat and barley cultivars at three locations in Minnesota. 2002 National Fusarium Head Blight Forum Proceedings. p.177.
13. Jinn, C.X., G. R. Sands, B. Hansen, J.J. Wiersma, H. Kandel, and Z. Fore. 2003. The Response of Water Table and Soil Moisture to Subsurface Drainage: An Experimental Study in the Cold Climate of Minnesota. Presented at the 2003 ASAE International Meeting, Paper No. 032088. ASAE, St. Joseph, MI.
14. J.J. Wiersma, H. Kandel, and Z. Fore. 2004. Feasibility of Winter Wheat following Soybeans in the Northern Great Plains. Agron. Abstracts.
15. B. Salas, R. Dill-Macky, and J.J. Wiersma. 2004. Stratified Colonization of Wheat Plants by *Fusarium graminearum*. 2004 National Fusarium Head Blight Forum Proceedings.
16. Wiersma, J.J., D. Archer, F. Forcella, B.R. Durgan, J. Eklund, and K. Martinson. 2005. Validation of the WheatScout Decision Aid for Integrated Management of Grass Weeds in Spring Wheat. Proc. Of the Weed Science Society of America.
17. Hollingsworth, C., C. Motteberg, J. Machado, I. MacRae, and J.J. Wiersma. 2005. Evaluating tissue locations of small grain plants for detection of phytoplasma and determining aster yellows distribution in northwestern Minnesota. Phytopathology 95: S43.
18. Wiersma, J.J., and B.R. Durgan. 2005. Optimum time and rate of trinexapac-ethyl plant growth regulator to reduce lodging in hard red spring wheat. Agron. Abstract.

D. Teaching Publications and Course Syllabi

1. Wiersma, J.J. 1997. PIM 3023 – ‘Plant Breeding’. Course syllabus and website, UMC. (<http://webhome.crk.umn.edu/~ywiersma/PIM3023>).
2. Wiersma, J.J. 2001. ‘Cereal Management’. Training manual for Agrilience.

E. Extension Publications

1. Hofman, V., M. McMullen, T. Gregoire and J.J. Wiersma. 1998. Application of Fungicides for Suppression Fusarium Head Blight or Scab. Fact sheet AE-1148, NDSU Extension Service.
2. Wiersma, J.J. 2000. Red River On Farm Yield Trials for Barley. In: On-Farm Cropping Trials – Northwest and West Central Minnesota. University of Minnesota Extension, St Paul, MN.
3. Wiersma, J.J. 2000. Red River On Farm Yield Trials for Wheat. In: On-Farm Cropping Trials – Northwest and West Central Minnesota. University of Minnesota Extension, St Paul, MN.
4. Wiersma, J.J. 2001. Red River On Farm Yield Trials for Barley. In: On-Farm Cropping Trials – Northwest and West Central Minnesota. University of Minnesota Extension, St Paul, MN.
5. Wiersma, J.J. 2001. Red River On Farm Yield Trials for Wheat. In: On-Farm Cropping Trials – Northwest and West Central Minnesota. University of Minnesota Extension, St Paul, MN.
6. Wiersma, J.J., and M.J. Bennett (editors). 2001. Small Grains Field Guide. University of Minnesota Extension Service, St. Paul, MN. Item # MI-07488-S.
7. Wiersma, J.J. 2002. Red River On Farm Yield Trials for Barley. In: On-Farm Cropping Trials – Northwest and West Central Minnesota. University of Minnesota Extension, St Paul, MN. p.
8. Wiersma, J.J. 2002. Red River On Farm Yield Trials for Wheat. In: On-Farm Cropping Trials – Northwest and West Central Minnesota. University of Minnesota Extension, St Paul, MN.
9. Wiersma, J.J. 2003. Red River On Farm Yield Trials for Barley. In: On-Farm Cropping Trials – Northwest and West Central Minnesota. University of Minnesota Extension, St Paul, MN.
10. Wiersma, J.J. 2003. Red River On Farm Yield Trials for Wheat. In: On-Farm Cropping Trials – Northwest and West Central Minnesota. University of Minnesota Extension, St Paul, MN.
11. Wiersma, J.J. 2004. Red River On Farm Yield Trials for Barley. In: On-Farm Cropping Trials – Northwest and West Central Minnesota. University of Minnesota Extension, St Paul, MN (in print)
12. Wiersma, J.J. 2004. Red River On Farm Yield Trials for Wheat. In: On-Farm Cropping Trials – Northwest and West Central Minnesota. University of Minnesota Extension, St Paul, MN (in print).
13. Wiersma, J.J., and J.K. Ransom (editors). 2005. Small Grains Field Guide. University of Minnesota Extension Service, St. Paul, MN and North Dakota State University Extension Service, Fargo, ND. Item # MI-07488-S (in print).

F. Experiment Station Publications

1. Wiersma, J.J., R.H. Busch, D.C. Rasmusson, D.D. Stuthman, and E.A. Oelke. 1995. Preliminary Report 24C, "University of Minnesota Variety Trials." Minnesota Agricultural Experiment Station, St. Paul.
2. Wiersma, J.J., R.H. Busch, D.C. Rasmusson, and D.D. Stuthman. 1996. Preliminary Report 24C, "University of Minnesota Variety Trials." Minnesota Agricultural Experiment Station, St. Paul.
3. Wiersma, J.J., R.H. Busch, D.C. Rasmusson, and D.D. Stuthman. 1997. Preliminary Report 24C, "University of Minnesota Variety Trials." Minnesota Agricultural Experiment Station, St. Paul.
4. Wiersma, J.J., R.H. Busch, J. Anderson, D.C. Rasmusson, and D.D. Stuthman. 1998. Preliminary Report 24C, "University of Minnesota Variety Trials." Minnesota Agricultural Experiment Station, St. Paul.
5. Wiersma, J.J., R.H. Busch, J. Anderson, D.C. Rasmusson, K. Smith, and D.D. Stuthman. 1999. Preliminary Report 24C, "University of Minnesota Variety Trials." Minnesota Agricultural Experiment Station, St. Paul.
6. Wiersma, J.J., J. Anderson, D.C. Rasmusson, K. Smith, and D.D. Stuthman. 2000. Preliminary Report 24C, "University of Minnesota Variety Trials." Minnesota Agricultural Experiment Station, St. Paul.
7. Wiersma, J.J., J. Anderson, K. Smith, and D.D. Stuthman. 2001. Preliminary Report 24C, "University of Minnesota Variety Trials." Minnesota Agricultural Experiment Station, St. Paul.
8. Wiersma, J.J., J.A. Anderson, and B.R. Durgan. 2002. 'Alsen - Hard Red Spring Wheat'. Fact Sheet. Minnesota Agricultural Experiment Station, St. Paul.
9. Wiersma, J.J., J.A. Anderson, and B.R. Durgan. 2002. 'Gunner - Hard Red Spring Wheat'. Fact Sheet. Minnesota Agricultural Experiment Station, St. Paul.
10. Wiersma, J.J., J.A. Anderson, and B.R. Durgan. 2002. 'Ingot - Hard Red Spring Wheat'. Fact Sheet. Minnesota Agricultural Experiment Station, St. Paul.
11. Wiersma, J.J., J.A. Anderson, and B.R. Durgan. 2002. 'Ivan - Hard Red Spring Wheat'. Fact Sheet. Minnesota Agricultural Experiment Station, St. Paul.
12. Wiersma, J.J., J.A. Anderson, and B.R. Durgan. 2002. 'Norpro - Hard Red Spring Wheat'. Fact Sheet. Minnesota Agricultural Experiment Station, St. Paul.
13. Wiersma, J.J., J.A. Anderson, and B.R. Durgan. 2002. 'Oxen - Hard Red Spring Wheat'. Fact Sheet. Minnesota Agricultural Experiment Station, St. Paul.
14. Wiersma, J.J., J.A. Anderson, and B.R. Durgan. 2002. 'Parshall - Hard Red Spring Wheat'. Fact Sheet. Minnesota Agricultural Experiment Station, St. Paul.
15. Wiersma, J.J., J.A. Anderson, and B.R. Durgan. 2002. 'Reeder - Hard Red Spring Wheat'. Fact Sheet. Minnesota Agricultural Experiment Station, St. Paul.
16. Wiersma, J.J., J.A. Anderson, and B.R. Durgan. 2002. 'Russ - Hard Red Spring Wheat'. Fact Sheet. Minnesota Agricultural Experiment Station, St. Paul.
17. Wiersma, J.J., J.A. Anderson, and B.R. Durgan. 2002. 'Verde - Hard Red Spring Wheat'. Fact Sheet. Minnesota Agricultural Experiment Station, St. Paul.
18. Wiersma, J.J., J.A. Anderson, and B.R. Durgan. 2002. 'Walworth - Hard Red Spring Wheat'. Fact Sheet. Minnesota Agricultural Experiment Station, St. Paul.
19. Wiersma, J.J., K.P. Smith, and B.R. Durgan. 2002. 'Drummond-Spring Barley'. Fact Sheet. Minnesota Agricultural Experiment Station, St. Paul.
20. Wiersma, J.J., K.P. Smith, and B.R. Durgan. 2002. 'Foster - Spring Barley'. Fact Sheet. Minnesota Agricultural Experiment Station, St. Paul.
21. Wiersma, J.J., K.P. Smith, and B.R. Durgan. 2002. 'Lacey - Spring Barley'. Fact Sheet. Minnesota Agricultural Experiment Station, St. Paul.
22. Wiersma, J.J., D.D. Stuthman, and B.R. Durgan. 2002. 'Leonard - Oats'. Fact Sheet. Minnesota Agricultural Experiment Station, St. Paul.

23. Wiersma, J.J., D.D. Stuthman, and B.R. Durgan. 2002. 'Leonard - Oats'. Fact Sheet. Minnesota Agricultural Experiment Station, St. Paul.
24. Wiersma, J.J., D.D. Stuthman, and B.R. Durgan. 2002. 'Richard - Oats'. Fact Sheet. Minnesota Agricultural Experiment Station, St. Paul.
25. Wiersma, J.J., D.D. Stuthman, and B.R. Durgan. 2002. 'Sesqui - Oats'. Fact Sheet. Minnesota Agricultural Experiment Station, St. Paul.
26. Wiersma, J.J., D.D. Stuthman, and B.R. Durgan. 2002. 'Wabasha - Oats'. Fact Sheet. Minnesota Agricultural Experiment Station, St. Paul.
27. Wiersma, J.J., J. Anderson, K. Smith, and D.D. Stuthman. 2002. Preliminary Report 24C, "University of Minnesota Variety Trials." Minnesota Agricultural Experiment Station, St. Paul.
28. Wiersma, J.J., J.A. Anderson, and B.R. Durgan. 2003. 'Oklee - Hard Red Spring Wheat'. Fact Sheet. Minnesota Agricultural Experiment Station, St. Paul.
29. Wiersma, J.J., J. Anderson, K. Smith, and D.D. Stuthman. 2003. Preliminary Report 24C, "University of Minnesota Variety Trials." Minnesota Agricultural Experiment Station, St. Paul.
30. Wiersma, J.J., J.A. Anderson, and B.R. Durgan. 2003. 'Briggs - Hard Red Spring Wheat'. Fact Sheet. Minnesota Agricultural Experiment Station, St. Paul.
31. Wiersma, J.J., J.A. Anderson, and B.R. Durgan. 2003. 'Hanna - Hard Red Spring Wheat'. Fact Sheet. Minnesota Agricultural Experiment Station, St. Paul.
32. Wiersma, J.J., J.A. Anderson, and B.R. Durgan. 2003. 'Knudson - Hard Red Spring Wheat'. Fact Sheet. Minnesota Agricultural Experiment Station, St. Paul.
33. Wiersma, J.J., J. Anderson, K. Smith, and D.D. Stuthman. 2004. Preliminary Report 24C, "University of Minnesota Variety Trials." Minnesota Agricultural Experiment Station, St. Paul.
34. Wiersma, J.J., J.A. Anderson, and B.R. Durgan. 2005. 'Ulen - Hard Red Spring Wheat'. Fact Sheet. Minnesota Agricultural Experiment Station, St. Paul.
35. Wiersma, J.J., J. Anderson, K. Smith, and D.D. Stuthman. 2005. Preliminary Report 24C, "University of Minnesota Variety Trials." Minnesota Agricultural Experiment Station, St. Paul.

G. Minnesota Crop eNews Articles

1. Wiersma, J.J. Verde, New Semidwarf Hard Red Spring Wheat Variety. Minnesota Crop News, Vol. 1, No. 29. December 15, 1995.
2. Wiersma, J.J. Preharvest Weed Control in Small Grains. Minnesota Crop News, Issue 21. August 9, 1996.
3. Wiersma, J.J. Insect Activity in the Red River Valley. Minnesota Crop News, Vol. 2, No. 16. July 3, 1996.
4. Wiersma, J.J. Lorsban 4E-SG Approved for Control of Orange Wheat Blossom Midge. Minnesota Crop News, Vol. 2, No. 8. May 10, 1996.
5. Wiersma, J.J. Delayed Planting of Small Grains and Alternative Crops. Minnesota Crop News, Vol. 2, No. 11. May 31, 1996.
6. Wiersma, J.J. Early Season Fungicide Use on Wheat. Minnesota Crop News, Vol. 2, No. 12. June 7, 1996.
7. Wiersma, J.J. Small Grains Disease Update. Minnesota Crop News, Vol. 2, No. 13. June 14, 1996.
8. Wiersma, J.J. Preharvest Weed Control in Small Grains. Minnesota Crop News, Vol. 3, No. 22. August 8, 1997.

9. Wiersma, J.J. Seedbed Preparation. Minnesota Crop News Special Flood Edition, Vol. 3, No. 7. May 1, 1997.
10. Wiersma, J.J. Delayed Planting for Small Grains. Minnesota Crop News Special Flood Edition, Vol. 3, No. 7. May 1, 1997.
11. Wiersma, J.J. Orange Wheat Blossom Midge Update. Minnesota Crop News, Vol. 3, No. 10. May 16, 1997.
12. Wiersma, J.J. Delayed Planting. Minnesota Crop News, Vol. 3, No. 6. April 25, 1997.
13. Wiersma, J.J. Caution: Hazardous "Mine" Field. Minnesota Crop News, Vol. 3, No. 6. April 6, 1997.
14. MacRae, I. and J.J. Wiersma. Orange Wheat Blossom Midge Adult Emergence Nearing Peak. Minnesota Crop News, Vol. 4, No. 15. June, 1998.
15. MacRae, I. and J.J. Wiersma. Aphid Populations Rising in Small Grains. Minnesota Crop News, Vol. 4, No. 15. June, 1998.
16. Hoffman, V., M. McMullen, and Wiersma, J.J. Application of Fungicides for Suppression of Fusarium Head Blight or Scab. Minnesota Crop News, Vol. 4, No. 15. June, 1998.
17. Wiersma, J.J., and I. MacRae. Aphids Found in the Region. Minnesota Crop News, Vol. 4, No. 13. June, 1998.
18. Wiersma, J.J., and I. MacRae. Orange Wheat Blossom Midge Adult Emergence Approaching! Minnesota Crop News, Vol. 4, No. 13. June, 1998.
19. Wiersma, J.J., and I. MacRae. Leaf Rust Detected. Minnesota Crop News, Vol. 4, No. 13. June, 1998.
20. Wiersma, J.J. Early Season Fungicides on Wheat. Minnesota Crop News, Vol. 4, No. 9. May, 1998.
21. Durgan, B.R., and Wiersma, J.J. Wild Oat Control in Wheat and Barley. Minnesota Crop News, Vol. 4, No. 8. May, 1998.
22. Wiersma, J.J. and I. MacRae. Planting Wheat and Orange Wheat Blossom Midge. Minnesota Crop News, Vol. 4, No. 7. May, 1998.
23. Wiersma, J.J. Winter Wheat as a Possible Alternative. Minnesota Crop News, Vol. 5, No. 19. August 20, 1999.
24. Wiersma, J.J. Disease Update. Minnesota Crop News, Vol. 5, No. 15. July 16, 1999.
25. MacRae, I., and J.J. Wiersma. Update on Cereal Insects. Minnesota Crop News, Vol. 5, No. 11. June 18, 1999.
26. Wiersma, J.J. Small Grain Disease Forecasting and Decision Support. Minnesota Crop News, Vol. 5, No. 11. June 18, 1999.
27. Wiersma, J.J. Delayed Planting of Small Grains. Minnesota Crop News, Vol. 5, No. 8. May 21, 1999.
28. Wiersma, J.J. Replanting Decisions for Small Grains. Minnesota Crop News, Vol. 5, No. 8. May 21, 1999.
29. MacRae, I. and J.J. Wiersma. Orange Wheat Blossom Midge and Planting of Wheat. Minnesota Crop News, Vol. 5, No. 6. May 7, 1999.
30. Wiersma, J.J. Coleoptile Length and Planting Depth. Minnesota Crop News, Vol. 5, No. 6. May 7, 1999.
31. Wiersma, J.J. Stand Counts in Small Grains. Minnesota Crop News, Vol. 6, No. 9. May 19, 2000.
32. Wiersma, J.J. Small Grains Update. Minnesota Crop News, Vol. 6, No. 15. June 30, 2000.
33. Wiersma, J.J., A. Sims, and J. Lamb. 2002 Intensive Wheat Management and Split Application of Nitrogen. Minnesota Crop News 63. May 14, 2002.
34. Wiersma, J.J. 2002. Storage of Seed Treated with Seed Treatments. Minnesota Crop News 64. May 14, 2002.

35. Wiersma, J.J. 2002. Viability of Planted Seed and Replanting Decisions. Minnesota Crop News 65. May 14, 2002.
36. Wiersma, J.J. and T Gregoire. 2002. Should I Switch to HRSW Varieties if the Season is Delayed? Minnesota Crop News 69. May 17, 2002.
37. Wiersma, J.J. 2002. Heat Canker and Frost Damage in Small Grains. Minnesota Crop News 75. June 3, 2002.
38. Wiersma, J.J. 2002. Yellow Wheat and Barley. Minnesota Crop News 82. June 17, 2002.
39. Wiersma, J.J. and A. Cattnach. 2002. Replanting Decisions for Fields Intended for Sugarbeets Next Year. Minnesota Crop News 83. June 19, 2002.
40. Wiersma, J.J. 2002. Leaf Rust found in the Red River Valley. Minnesota Crop News 84. June 20, 2002.
41. Wiersma, J.J., C. Hollingsworth, and B. Lockhart. 2002. Aster Yellows in Hard Spring Wheat. Minnesota Crop News 90. August 6, 2002.
42. Wiersma, J.J. What to do about sprout damaged wheat and barley. Minnesota Crop eNews. September 9, 2002.
43. Wiersma, J.J. 2004. Dry weather and high winds can cause heat canker in small grains. Minnesota Crop eNews. 2004 May 7, Minnesota Crop eNews.
44. Wiersma, J.J. 2004. Mature Grain, Wet Weather, and Sprout Damage. Minnesota Crop eNews. August 10, 2004.
45. Wiersma, J.J. Winter Wheat in Minnesota: A Viable Option? Minnesota Crop eNews. August 10, 2004.
46. Sorenson, B. and J.J. Wiersma. Sprout damaged wheat, crop insurance, and quality concerns. Minnesota Crop eNews. September 14, 2004.
47. Wiersma, J.J. 2005. Winterkill in winter wheat. Minnesota Crop eNews. April 21, 2005.

H. Prairie Grains Magazine Articles

1. Wiersma, J.J. 1995. University of Minnesota Varietal Trials for 1995 Small Grains. Prairie Grains, Issue 11. December, 1995.
2. Wiersma, J.J. 1995. Wheat and barley production tips. Prairie Grains, Issue 11. Winter, 1995.
3. Wiersma, J.J. 1996. Wheat and barley production tips. Prairie Grains, Issue 1. March, 1996.
4. Wiersma, J.J. 1996. Wheat Midge... Another View. News Release. Northwest Experiment Station. March, 1996.
5. Wiersma, J.J. 1996. Wheat and barley production tips. Prairie Grains, Issue 2. May, 1996.
6. Wiersma, J.J. 1996. University of Minnesota Varietal Trials for 1995 Small Grains. Prairie Grains, Issue 4. November, 1996.
7. Wiersma, J.J. 1997. Wheat and barley production tips. Prairie Grains, Issue 1. January, 1997.
8. Wiersma, J.J. 1997. Wheat and barley production tips. Prairie Grains, Issue 6. March, 1997.
9. Wiersma, J.J. 1997. Wheat and barley production tips. Prairie Grains, Issue 7. May, 1997.
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I. Websites

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2. Wiersma, J.J., and B. Brekke. 1999-2001. LearnAgriculture Website. (URL: <http://www.learnagriculture.org>).
3. Wiersma, J.J., and M. Goodman, 1999-present. Red River Valley Potato Growers Association Website. (URL <http://www.rrvpotatoes.org>).
4. Wiersma, J.J., and S. Lowe. 1998-2001. Minnesota Soybean Research & Promotion Council Website. (URL <http://www.mnsoybean.org>).
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7. Wiersma, J.J., and K. Versdahl. 1995-present. Small Grains Website. (URL <http://www.smallgrains.org>).

IX. **Professional Development Activities and dates (past 5 years):**

1. National Association of Wheat Growers Summer Convention. Las Vegas, NV. February, 2000.
2. National Association of Wheat Growers Annual Convention. New Orleans. February 1 and 2, 2000.
3. Bioethics Institute for Life Science Faculty Members. Ames, IA. May 29- June 2., 2001.

4. National Association of Wheat Growers Annual Convention. Atlanta. January 27 and 28, 2004.
5. American Society of Agronomy Annual Meeting. Seattle, WA. October 31 - November 4, 2004.
6. Weed Science Society of America Annual Meeting. Honolulu. HI. February 7 – 10, 2005.
7. American Society of Agronomy Annual Meeting. Salt Lake City, UT. November 6 - 10, 2005.

X. Grants:

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| 1. Development of a Homepage on the World Wide Web for Wheat Production Information. J.J. Wiersma and Kris Versdahl. Minnesota Extension Service. June, 1995. | \$3,000 |
| 2. Small Grains Specialist - General Support. J.J. Wiersma and L.J. Smith. Minnesota Association of Wheat Growers. July 1, 1995 - June 30, 1996. | \$35,000 |
| 3. Off-Station Yield Trials. J.J. Wiersma. Minnesota Association of Barley Growers. July 1, 1995 - June 30, 1996. | \$15,000 |
| 4. Comprehensive Wheat and Barley Management Surveys. J.J. Wiersma. National Agricultural Pesticide Impact Assessment Program. November, 1995 - December, 1997. | \$11,000 |
| 5. Comprehensive Wheat and Barley Management Surveys. J.J. Wiersma. Minnesota Pesticide Impact Assessment Survey (Matching Funds). January, 1996 - December, 1997. | \$5,000 |
| 6. Comprehensive Wheat and Barley Management Surveys. J.J. Wiersma. Minnesota Association of Wheat Growers (Matching Funds). January, 1996 - December, 1996. | \$2,500 |
| 7. Comprehensive Wheat and Barley Management Surveys. J.J. Wiersma. Minnesota Association of Barley Growers (Matching Funds). January, 1996 - December, 1996. | \$2,500 |
| 8. Small Grains Specialist - General Support. J.J. Wiersma and L.J. Smith. Minnesota Association of Wheat Growers. July 1, 1996 - June 30, 1997. | \$35,000 |
| 9. Off-Station Yield Trials. J.J. Wiersma. Minnesota Association of Barley Growers. July 1, 1997 - June 30, 1998. | \$15,000 |
| 10. Small Grains Specialist - General Support. J.J. Wiersma and L.J. Smith. Minnesota State Legislature. July 1, 1997 - June 30, 1998. | \$30,000 |
| 11. Production Guide for Small Grains. J.J. Wiersma, I. MacRae, and B. Durgan. Minnesota Wheat Research & Promotion Council. August 1, 1998 - August 1, 2000. | \$40,000 |
| 12. Off-Station Yield Trials. J.J. Wiersma. Minnesota Association of Barley Growers. July 1, 1998 - June 30, 1999. | \$15,000 |
| 13. Small Grains Specialist - General Support. J.J. Wiersma. Minnesota Research & Promotion Council. January 1, 1999 - December 1999 | \$15,000 |

14. Small Grains Specialist - General Support. J.J. Wiersma Minnesota State Legislature (Scab Initiative) July 1999- June, 2001.	\$30,000
15. Small Grains Specialist - General Support. J.J. Wiersma. Minnesota Research & Promotion Council. January 1, 2000 – December 2000.	\$15,000
16. Feasibility of Subsurface Drainage for Improving Wheat Yield. G.R. Sands and J.J. Wiersma. Minnesota Wheat Research & Promotion Council.	\$45,030
17. Reducing Crop Losses from Excess Water in Northwest Minnesota with Subsurface (Tile) Drainage. G.R. Sands, J.J. Wiersma, Z. Fore, T. Hurley, and H. Kandel. Rapid Agricultural Response Fund.	\$160,000
18. Evaluation of varietal responses to different fungicide management strategies in spring wheat. J.J. Wiersma. Bayer North America Inc. April, 2001 – March 2004.	\$75,000
19. Evaluation of varietal responses to different fungicide management strategies in spring wheat. J.J. Wiersma. National Scab Initiative/USDA-ARS. April, 2001 – March 2003.	\$40,000
20. Red River On Farm Yield Trials. J.J. Wiersma. Minnesota State Scab Initiative. January 1, 2001 – December 2002.	\$15,000
21. Small Grains Specialist - General Support. J.J. Wiersma. Minnesota State Scab Initiative. January 1, 2001 – December 2002.	\$30,000
22. Red River On Farm Yield Trials. J.J. Wiersma. Minnesota State Scab Initiative. January 1, 2003 – December 2004.	\$7,500
23. Small Grains Specialist - General Support. J.J. Wiersma. Minnesota State Scab Initiative. January 1, 2003 – December 2003.	\$30,000
24. Small Grains Specialist - General Support. J.J. Wiersma. Minnesota State Scab Initiative. January 1, 2004 – December 2004.	\$15,000
25. Feasibility of winter wheat in northwest Minnesota. J.J. Wiersma, H. Kandel, and Z. Fore. January 1, 2004 – December 2004.	\$10,000
26. Determining the responses to tile drainage in the Red River Valley. G.R. Sands, J.J. Wiersma, Z. Fore, T. Hurley, and H.	\$13,662

Kandel. January 1, 2004 – December 31, 2004.

27. Evaluation of trinexapac-ethyl plant growth regulator to reduce lodging in Hard Red Spring Wheat and spring barley. J.J. Wiersma and B.R. Durgan. January 1, 2004 – December 31, 2004.	\$7500
28. Intensive Management of the State Variety Trials. J.J. Wiersma and J.A. Anderson. January 1, 2004 – December 31, 2005.	\$20,000
29. Evaluation of trinexapac-ethyl plant growth regulator to reduce lodging in Hard Red Spring Wheat and spring barley. J.J. Wiersma and B.R. Durgan. January 1, 2005 – December 31, 2005.	\$3,000
30. Red River On Farm Yield Trials. J.J. Wiersma. Minnesota State Scab Initiative. January 1, 2005 – December 31, 2006.	\$15,000
31. Small Grains Specialist - General Support. J.J. Wiersma. Minnesota State Scab Initiative. January 1, 2005 – December 2006.	\$30,000
32. Continuation of Intensive Management of the State Variety Trials for Hard Red Spring Wheat. January 1, 2006 – December 31, 2008.	\$13,500
33. Liquid versus dry phosphorus fertilizer formulations with air seeders. January 1, 2006 – December 31, 2007.	\$18,200
TOTAL	\$817,392

XI. Outreach Activities:

Invited Talks (Past year only)

Annual Meeting of the Agricultural Consultants of North Dakota. Fargo, ND, on February 16, 2005.

International Crops Expo. Grand Forks, ND, on February 17, 2005.

Bayer CropScience Wheat Production Seminars. Chamberlain and Aberdeen, SD, on March 9 and 10, 2005.

Industry Talks and Seminars (Past year only)

Speaker. Ag Professional Update. Crookston, MN on January 10, 2005.

Speaker. Small Grains Update. Eight locations in Northwest Minnesota, on January 18 - 21, 2005.

Speaker. Getting It Right. Jamestown and Fargo, ND, on February 2 & 3, 2005.

Speaker. NWROC Field Day. Crookston, MN on July 13, 2005.

Speaker. Red River On-Farm Yield Trial Plot Tours. Five locations in Northwest Minnesota on July 11-15, 2005.

Phone Inquiries

Approximately 300 phone calls this past year.

Interviews with printed press, radio, and TV

Approximately one per week during the summer months.

Miscellaneous

Moderator RedRiverAg. List server for extension educators, farmers and industry in northwest Minnesota (redriverag@mail.coafes.umn.edu). 1996-present.