

Mark S. Reiter

Assistant Professor of Soils and Nutrient Management
Department of Crop and Soil Environmental Sciences
Eastern Shore Agricultural Research and Extension Center
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Education:

Ph.D. 2008. Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville, Arkansas.

International Research Exchange Program. 2007. Ghent University, Ghent, Belgium.

M.S. 2003. Agronomy and Soils, Auburn University, Auburn, Alabama.

B.S. 2001. Crop and Soil Environmental Sciences, Virginia Polytechnic Institute and State University, Blacksburg, Virginia.

Professional Appointments:

July 2008-Present. Assistant Professor of Soils and Nutrient Management. Virginia Polytechnic Institute and State University, Eastern Shore Agricultural Research and Extension Center, Painter, VA.

January 2004-June 2008. Senior Graduate Assistant. Crop, Soil, and Environmental Sciences Department, University of Arkansas, Fayetteville, AR.

December 2002-December 2003. Graduate Teaching Assistant. Agronomy and Soils Department, Auburn University, Auburn, AL.

May 2001-December 2002. Graduate Research Assistant. Agronomy and Soils Department, Auburn University, Auburn, AL.

Awards, Prizes, and Recognitions:

2011. Virginia Resource Conservation and Development Council Outstanding Cooperator Award.

2009. Outstanding Extension Publication Award from the American Society for Horticultural Science for the Southeastern Vegetable Crop Handbook (shared with 38 other authors).

2008. Crop, Soil, and Environmental Sciences Outstanding Ph.D. Student, University of Arkansas, Fayetteville, AR.

2004-2008. Academic Doctorial Fellowship, University of Arkansas, Fayetteville, AR.

2007. Bio-Renewable Resources Technology Exchange Program Scholarship, University of Arkansas, Fayetteville, AR.

2007. Wayne E. Sabbe International Study Abroad Scholarship, University of Arkansas, Fayetteville, AR.

2001-2003. Auburn University Presidential Fellowship, Auburn University, Auburn, AL.

2002. Dr. A.L. Smith Award, Agronomy and Soils Department, Auburn University, Auburn, AL.

2002. J. Fielding Reed Potash and Phosphate Institute Fellowship, International Plant Nutrition Institute, Norcross, GA.

2001. Graduated Magna Cum Laude from Virginia Polytechnic Institute and State University, Blacksburg, VA.

2001. Frank D. Keim Graduate Fellowship, American Society of Agronomy-Crop Science Society of America-Soil Science Society of America, Madison, WI.

2001. Crop and Soil Environmental Sciences Outstanding Senior, Student Activities Subdivision-American Society of Agronomy, Madison, WI.

1999. American FFA Degree, The National FFA Organization, Indianapolis, IN.

Refereed Journal Publications:

Carson, J.C., J.H. Freeman, K. Zhou, G. Welbaum, and **M.S. Reiter**. 2011. Cultivar evaluation and lipid protein contents of Virginia grown edamame. *HortTechnology*. 21:131-135.

Thomason, W.E., S.B. Phillips, P.H. Davis, J.G. Warren, M.M. Alley, and **M.S. Reiter**. 2011. In season nitrogen weight determination from plant spectral reflectance in soft red winter wheat. *J. Prec. Ag. In Press*. "Online First" available at: <http://dx.doi.org/10.1007/s11119-010-9210-5>.

He, Z., H. Zhang, G.S. Toor, Z. Dou, C.W. Honeycutt, B.E. Haggard, and **M.S. Reiter**. 2010. Phosphorus distribution in sequentially extracted fractions of biosolids, poultry litter, and granulated products. *Soil Sci.* 175(4):154-161.

Reiter, M.S., D.W. Reeves, and C.H. Burmester. 2008. Cotton nitrogen management in a high-residue conservation system: Nitrogen source, rate, application method, and application timing. *Soil Sci. Soc. Am. J.* 72:1330-1336.

Reiter, M.S., D.W. Reeves, C.H. Burmester, and H.A. Torbert. 2008. Cotton nitrogen management in a high-residue conservation system: Cover crop fertilization. *Soil Sci. Soc. Am. J.* 72:1321-1329.

Toor, G.S., B.E. Haggard, **M.S. Reiter**, T.C. Daniel, and A.M. Donoghue. 2007. Phosphorus solubility in poultry litters and granulates: Influence of litter treatments and extraction ratios. *Trans. ASABE* 50(2):533-542.

Refereed Conference Proceedings:

Reiter, M.S. 2010. Increasing fertilizer use efficiency for vegetable crops. p. 29-35. *In* D.M. Endale and K.V. Iversen (eds.) Proc. 32nd Southern Conservation Agric. Systems Conf., Jackson, TN. 20-22 July 2010. Available at: <http://www.ag.auburn.edu/auxiliary/nsdl/scasc>.

Fleming*, C.S., M.S. Reiter, and J.H. Freeman. 2009. Irrigation management of fresh market tomato on sandy loam soils in the Mid-Atlantic. p. 163-167. *In* M.S. Reiter (ed.) A multidisciplinary approach to conservation. Proc. 31st Southern Conservation Agric. Systems Conf., Melfa, VA. 20-23 July 2009. Ext. Publ. 2910-1417. Dep. Crop and Soil Environ. Sci., Eastern Shore Agric. Res. Ext. Cntr., Virginia Polytechnic Inst. and State Univ., Painter, VA. Available at: <http://pubs.ext.vt.edu/2910/2910-1417/2910-1417.html>.

Reiter, M.S. 2009. Conservation tillage trends in Virginia agricultural production. p. 2-11. *In* M.S. Reiter (ed.) A multidisciplinary approach to conservation. Proc. 31st Southern Conservation Agric. Systems Conf., Melfa, VA. 20-23 July 2009. Ext. Publ. 2910-1417. Dep. Crop and Soil Environ. Sci., Eastern Shore Agric. Res. Ext. Cntr., Virginia Polytechnic Inst. and State Univ., Painter, VA. Available at: <http://pubs.ext.vt.edu/2910/2910-1417/2910-1417.html>.

Reiter, M.S., S.B. Phillips, and J.G. Warren. 2009. Long-term impacts of poultry litter fertilizer on crops and soil on the Delmarva Peninsula. p. 1-7. *In* L. Espinoza (ed.) Proc. Southern Plant Nutrient Mgmt. Conf., Olive Branch, MS. 6-7 Oct. 2009.

Reiter, M.S. and J.S. Reiter. 2009. Sustainable nitrogen fertilization strategies for no-tillage wheat. p. 146-150. *In* M.S. Reiter (ed.) A multidisciplinary approach to conservation. Proc. 31st Southern Conservation Agric. Systems Conf., Melfa, VA. 20-23 July 2009. Ext. Publ. 2910-1417. Dep. Crop and Soil Environ. Sci., Eastern Shore Agric. Res. Ext. Cntr., Virginia Polytechnic Inst. and State Univ., Painter, VA. Available at: <http://pubs.ext.vt.edu/2910/2910-1417/2910-1417.html>.

Reiter, M.S., D.W. Reeves, C.H. Burmester, and H.A. Torbert. 2004. Nitrogen efficiency of cotton and cover crops in high-residue conservation tillage systems. *In* S. Thacker (ed.) Proc. 14th Annual Graduate Student Council Research Forum, 3-4 March 2004. Auburn University Graduate School, Auburn University, AL.

Reiter, M.S., D.W. Reeves, and C.H. Burmester. 2003. Nitrogen management for conservation-tilled cotton following a rye cover crop. *In* J. Tullberg (ed.) Proc. 16th International Soil Tillage Research Organisation Triennial Conference: Soil Management for Sustainability, July 13-18, Univ. of Queensland, Brisbane, Australia.

Reiter, M.S., D.W. Reeves, and C.H. Burmester. 2003. Nitrogen management for high-residue conservation-tilled cotton production. *In* B. Ellis (ed.) Proc. 13th Annual Graduate Student Council Research Forum, 19-20 March 2004. Auburn University Graduate School, Auburn University, AL.

Reiter, M.S., D.W. Reeves, and C.H. Burmester, 2003. Managing nitrogen for cotton in a high-residue conservation tillage system. *In* Proc. Beltwide Cotton Conf., Nashville, TN. 6-10 Jan. 2003. National Cotton Council of Am., Memphis, TN.

Reiter, M.S., D.W. Reeves, and C.H. Burmester. 2002. Nitrogen management for cotton grown in a high-residue cover crop conservation tillage system. p. 136-141. *In* E. van Santen (ed.)

Proc. 25th Annual Southern Conservation Tillage Conference for Sustainable Agriculture, June 24-26, Auburn, AL. Dept. of Agron. and Soils and Alabama Agric. Exper. Stn.

Numbered Extension Publicatons:

Alley, M.M., S. Reiter, W. Thomason, and **M. Reiter**. 2010. Pop-up and/or starter fertilizers for corn. Publ. 3002-1438. Virginia Cooperative Ext., Blacksburg.

Reiter, M.S., M.M. Alley, W.E. Thomason, and J.S. Reiter. 2010. Corn fertility update – Spring 2010. Publ. 3006-1448. Virginia Cooperative Ext., Blacksburg.

Wilson, H.P., T.P. Kuhar, S.L. Rideout, J.H. Freeman, **M.S. Reiter**, R.A. Straw, T.E. Hines, C.M. Waldenmaier, H.B. Doughty, U.T. Deitch, and J.D. Aigner, Jr. 2010. Commercial vegetable production recommendations. Publ. 456-420. Virginia Cooperative Ext., Blacksburg.

Kuhar, T.P., H.B. Doughty, J.H. Freeman, R.A. Straw, C. Waldenmaier, S. Rideout, **M. Reiter**, H.P. Wilson, and T.E. Hines. 2009. Commercial vegetable production recommendations. Publ. 456-420. Virginia Cooperative Ext., Blacksburg.

Reiter, M.S. 2009. Cotton fertility. Publ. 2810-1019. p. 1-4. *In* Virginia Cotton Production Guide 2010. Virginia Cooperative Ext., Blacksburg.

Reiter, M.S., S.B. Phillips, R.O. Maguire, and J.G. Warren. 2009. Nitrogen management for white potato production. Publ. 438-012. Virginia Cooperative Ext., Blacksburg.

Rideout, S.L., **M.S. Reiter**, J.H. Freeman, et. al. 2009. Southeastern U.S. vegetable crop handbook – 2009 [Online]. Kemble, J.M., and G.J. Holmes (eds). Available at: http://www.citrusandvegetable.com/Media/SE_veg_guide2009/2009_SEVG_Contents.pdf. Southeastern Vegetable Extension Workers. Vance Publ. Corp, Lincolnshire, IL.

Reiter, M.S., T.C. Daniel, R.G. Hinkle, and M.D. Richardson. 2008. Runoff water quality from turfgrass applications of nitrogen fortified poultry litter and biosolids fertilizers using simulated rainfall. Res. Ser. 558. p. 45-48. *In* N.A. Slaton. (ed.) Wayne E. Sabbe Arkansas Soil Fertility Studies 2007. Arkansas Agric. Expt. Stn., Univ. of Arkansas, Fayetteville.

Reiter, M.S., T.C. Daniel, and M. Mozaffari. 2008. Seed cotton yield from applications of nitrogen-fortified poultry litter granular fertilizers. Res. Ser. 562. p. 48-52. *In* D. Oosterhuis. (ed.) Summaries of Arkansas Cotton Research 2007. Arkansas Agric. Expt. Stn., Univ. of Arkansas, Fayetteville.

Reiter, M.S., T.C. Daniel, N.A. Slaton, and R.J. Norman. 2008. Rice yield and nitrogen recovery from nitrogen-fortified poultry litter granular fertilizers. Res. Ser. 558. p. 49-53. *In* N.A. Slaton. (ed.) Wayne E. Sabbe Arkansas Soil Fertility Studies 2007. Arkansas Agric. Expt. Stn., Univ. of Arkansas, Fayetteville.

Reiter, M.S., T.C. Daniel, N.A. Slaton, C.E. Wilson, Jr., C.H. Tingle, and B.R. Bock. 2006. Broiler litter and litter ash effects on rice in an eastern Arkansas rotation. Res. Ser. 525. p. 81-85. *In* N.A. Slaton. (ed.) Wayne E. Sabbe Arkansas Soil Fertility Studies 2005. Arkansas Agric. Expt. Stn., Univ. of Arkansas, Fayetteville.

Reiter, M.S., T.C. Daniel, N.A. Slaton, C.E. Wilson, Jr., C.H. Tingle, and B.R. Bock. 2005. Poultry litter ash and raw litter residual effects on wheat and soybean in an eastern Arkansas rice, wheat, and soybean rotation. Res. Ser. 525. p. 72-77. *In* N.A. Slaton. (ed.) Wayne E. Sabbe Arkansas Soil Fertility Studies 2004. Arkansas Agric. Expt. Stn., Univ. of Arkansas, Fayetteville.

Reiter, M.S., T.C. Daniel, N.A. Slaton, C.E. Wilson, Jr., C.H. Tingle, and B.R. Bock. 2004. Effects of poultry litter ash and raw litter on rice in an eastern Arkansas rice, wheat, and soybean rotation. Res. Ser. 515. p. 58-60. *In* N.A. Slaton. (ed.) Wayne E. Sabbe Arkansas Soil Fertility Studies 2003. Arkansas Agric. Expt. Stn., Univ. of Arkansas, Fayetteville.

Other Papers and Report:

Weld, J.L., D.B. Beegle, P.J.A. Kleinman, R. Maguire, **M.S. Reiter**, A. Allen, and J. McGrath. 2010. Comments regarding the draft Chesapeake federal land management guidance document, Chapter 2: Agriculture. Notice under docket ID no. EPA-HQ-OW-2010-0164. USEPA, Washington D.C. 23 April.

Reiter, M.S., S.L. Rideout, J.D. Aigner, C.M. Waldenmaier, and T.C. Custis, Jr. 2009. Nitrogen and sulfur fertilizer impact on rust disease severity, 2009. Plant Dis. Rep. 4:V106.

Reiter, M.S., S.L. Rideout, J.D. Aigner, C.M. Waldenmaier, and T.C. Custis, Jr. 2009. Nitrogen fertilizer and growth regulator impact on tuber deformity, rot, and yield in Russet potatoes, 2009. Plant Dis. Rep. 4:V107.

Reiter, M.S., D.W. Reeves, and C.H. Burmester. 2008. Cotton nitrogen management using high-residue cover crops. CSA News. 53:6.

Abstracts:

Fleming, C.S.*, **M.S. Reiter**, and J.H. Freeman. 2010. Fresh market tomato irrigation management on sandy loam soils. HortScience 45(4):499.

Fleming, C.S.*, **M.S. Reiter**, and J.H. Freeman. 2010. Irrigation management of fresh market tomato on sandy loam soils in the Mid-Atlantic. *In* 26th Annual Graduate Student Association Research Symposium Abstracts. 24 Mar. Virginia Tech, Blacksburg.

McAvoy, T., J.H. Freeman, and **M.S. Reiter**. 2010. Soil persistence of dimethyl disulfide fumigant due to application rate, chemical formulation, and plastic mulch type. HortScience 45(4):502.

Reiter, M.S. and J.H. Freeman. 2010. Snap bean nitrogen management in the Mid-Atlantic. HortScience 45(4):501.

Reiter, M.S., T.C. Daniel, N.A. Slaton, and R.J. Norman. 2009. Rice yield and nitrogen recovery from nitrogen-fortified poultry litter granular fertilizers. *In* Abstracts of technical papers, 2009 Annu. Meet., S. Branch, ASA, Atlanta, GA. 1-3 Feb. 2009. ASA, Madison, WI.

Reiter, M.S., J.S. Reiter, and W.E. Thomason. 2009. Injected and banded nitrogen fertilization for no-tillage winter wheat in the Mid-Atlantic. *In* Annual Meetings Abstracts [CD-ROM]. ASA, CSSA, and SSSA, Madison, WI.

Thomason, W.E., S.B. Phillips, P.H. Davis, J.G. Warren, M.M. Alley, and M.S. Reiter. 2009. In-season rate determination from plant spectral reflectance in soft red winter wheat. *In Annual Meetings Abstracts [CD-ROM]*. ASA, CSSA, and SSSA, Madison, WI.

Reiter, M.S., T.C. Daniel, R.G. Hinkle, N.A. Slaton, and R.J. Norman. 2008. Binding agents affect on physical and chemical attributes of nitrogen fortified poultry litter and biosolids fertilizers. *In Annual Meetings Abstracts [CD-ROM]*. ASA, CSSA, and SSSA, Madison, WI.

Roberts, T.L., R.J. Norman, N.A. Slaton, W.J. Ross, C.E. Wilson, Jr., and M.S. Reiter. 2008. Nitrogen recommendations for rice in Arkansas using the Illinois soil nitrogen test and direct steam distillation. *In Annual Meetings Abstracts [CD-ROM]*. ASA, CSSA, and SSSA, Madison, WI.

Reiter, M.S., T.C. Daniel, M.D. Richardson, R.G. Hinkle, N.A. Slaton, and R.J. Norman. 2007. Turf applications of N-fortified poultry litter and biosolids fertilizer affect runoff water quality. *In Annual Meetings Abstracts [CD-ROM]*. ASA, CSSA, and SSSA, Madison, WI.

Reiter, M.S., T.C. Daniel, R.G. Hinkle, N.A. Slaton, and R.J. Norman. 2006. Impact of binding agent and dicyandiamide on nitrogen-fortified granulated poultry litter and biosolids fertilizers. *In Annual Meetings Abstracts [CD-ROM]*. ASA, CSSA, and SSSA, Madison, WI.

Haggard, B.E., G.S. Toor, M.S. Reiter, T.C. Daniel, and A.M. Donoghue. 2006. Does poultry litter granulation affect water extractable phosphorus in litters and litter-amended soils? *In 2006 Poultry Waste Management Symposium Abstracts*. Oct. 23-25, 2006. Springdale, AR.

Reiter, M.S., T.C. Daniel, N.A. Slaton, and R.J. Norman. 2006. Effect of N fortified granular fertilizers on rice production. *In 37th Rice Tech. Working Group Meeting Abstracts*. 26 Feb. – 1 Mar. 2006. The Woodlands, TX.

Reiter, M.S., T.C. Daniel, N.A. Slaton, and R.J. Norman. 2005. Yield response to a granular nitrogen fortified broiler litter fertilizer on silt loam soils. *In Annual Meetings Abstracts [CD-ROM]*. ASA, CSSA, and SSSA, Madison, WI.

Reiter, M.S., T.C. Daniel, N.A. Slaton, T.W. Harper, C.E. Wilson, Jr., C.H. Tingle, and B.R. Bock. 2004. Effects of poultry litter ash and raw litter on rice and wheat in an eastern Arkansas rotation. *In Annual Meetings Abstracts [CD-ROM]*. ASA, CSSA, and SSSA, Madison, WI.

Reiter, M.S., D.W. Reeves, C.H. Burmester, and H.A. Torbert. 2003. Cotton and cover crop nitrogen efficiency in high-residue conservation tillage systems. *In Annual Meetings Abstracts [CD-ROM]*. ASA, CSSA, and SSSA, Madison, WI.

Reiter, M.S., D.W. Reeves, and C.H. Burmester. 2003. Conservation-tilled cotton nitrogen efficiency following a high-residue cover crop. *In Abstracts of technical papers, 2003 Annu. Meet.*, S. Branch, ASA, Mobile, AL 2-4 Feb. 2003. ASA, Madison, WI.

Reiter, M.S., D.W. Reeves, and C.H. Burmester. 2002. Cotton nitrogen management for a high-residue conservation tillage system. *In Annual Meetings Abstracts [CD-ROM]*. ASA, CSSA, and SSSA, Madison, WI.

Editorships:

Reiter, M.S. 2009. Editor for: Proc. 31st Southern Conservation Agric. Systems Conf., Melfa, VA. 20-23 July 2009. Ext. Publ. 2910-1417. Dep. Crop and Soil Environ. Sci., Eastern Shore Agric. Res. Ext. Cntr., Virginia Polytechnic Inst. and State Univ., Painter, VA. Available at: <http://pubs.ext.vt.edu/2910/2910-1417/2910-1417.html>.

Professional Memberships:

American Society for Horticultural Science, 2009-Present
American Society of Agronomy, 2001-Present
American Soybean Association, 2009-Present
Association of Virginia Potato and Vegetable Growers, 2009-Present
Crop Science Society of America, 2001-Present
Gamma Sigma Delta Honor Society of Agriculture, 2001-Present
International Soil Tillage Research Organization, 2002-Present
Soil and Water Conservation Society, 2008-Present
Soil Science Society of America, 2001-Present
Southern Region-American Society for Horticultural Science, 2009-Present
Southern Regional Branch-American Society of Agronomy, 2002-Present
Virginia Association of Agricultural Extension Agents and Specialists, 2008-Present
Virginia Crop Production Association, 2008-Present
Virginia Extension Service Association, 2008-Present
Virginia Soybean Association, 2009-Present
Virginia Tech College of Agriculture and Life Sciences Faculty Association, 2010-Present
Virginia Water Monitoring Council, 2009-Present