

Darrell Jonathan Bosch
Professor, Agricultural and Applied Economics, Virginia Tech
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PROFESSIONAL PREPARATION

<u>College/University</u>	<u>Major</u>	<u>Degree & Year</u>
Central College, Pella, Iowa	Political Science	B.A., 1971
University of Tennessee	Agricultural Economics	M.S., 1980
University of Minnesota	Agric. & Appl. Economics	Ph.D., 1984

ACADEMIC/PROFESSIONAL APPOINTMENTS

1999 - present. Professor, Dept. of Agricultural and Applied Economics, Virginia Tech.
1990-1999. Associate Professor, Dept. of Agric. and Applied Econ., Virginia Tech.
1984-1990. Assistant Professor, Department of Agric. and Applied Econ., Virginia Tech.
1980-1984. Research Assistant, Dept of Agric. and Applied Econ., University of Minnesota.
1978-1980. Research Assistant, Dept. of Agric. Econ. and Rural Soc., University of Tennessee.

PEER REVIEWED PUBLICATIONS (since 2008)

Journal Articles

- Giuffria, Jonathon M., Darrell J. Bosch, Daniel B. Taylor, and Nasrin Alamdari. Costs of Water Quality Goals under Climate change in Urbanizing Watersheds: Difficult Run, Virginia. *Journal of Water Resources Planning and Management*. (In Press).
- Ferraro, Nathaniel, Darrell J. Bosch, James W. Pease, and James S. Owen. Costs of Capturing and Recycling Irrigation Water in Container Nurseries. *HortScience*. (In press).
- Cultice, Alyssa, Darrell J. Bosch, James Pease, Kevin J. Boyle, and Weibin Xu. Horticultural Growers' Willingness to Adopt Recycling of Irrigation Water. *Journal of Agricultural and Applied Economics*. 48(1)(2016): 99-118.
- Tanellari, E., D. Bosch, K. Boyle, and E. Mykerezzi. On Consumers' Attitudes and Willingness to Pay for Improved Drinking Water Quality and Infrastructure. *Water Resoures. Research*. 51(2015): 47-57, doi:10.1002/2013WR014934.
- Pan, Ane, Darrell J. Bosch, and Huiman Ma. Assessing Water Poverty in China Using Holistic and Dynamic Principal Component Analysis. *Social Indicators Research*. (2015): doi:10.1007/s11205-015-1191-3. URL <http://link.springer.com/article/10.1007/s11205-015-1191-3>
- Bosch, Darrell, James Pease, Robert Wieland, and Doug Parker. Paying for Performance: Using Cover Crops to Improve Water Quality, *Agricultural and Resource Economics Review*. 42(3) (December 2013): 491-507.
- Lee, J., E. Kleczyk, D. J. Bosch, A. M. Dietrich, and V. K. Lohani. Homeowners' Decisionmaking In A Pipe Failure Prone Area. *Journal of American Water Works Association* 105(No. 5) (2013): E231-E241.
- Bosch, D., J. Pease, M.L. Wolfe, C. Zobel, J. Osorio, T. Denckla Cobb, and G. Evanylo. Community DECISIONS: Stakeholder Focused Watershed Planning. *Journal of Environmental Management*. 112 (2012): 226-232.
<http://dx.doi.org/10.1016/j.jenvman.2012.07.031>
- Bosch, D., N. Kuminoff, K. Stephenson, J. Pope, A. Harris, and A. Miller. Evaluation of Policy Options for Expanding Oyster Aquaculture in Virginia. *Aquaculture Economics and*

- Management*. (14) (2010): 145-163.
- A. Arnette, C. Zobel, D. Bosch, J. Pease, T. Metcalfe. Stakeholder Ranking of Watershed Goals with the Vector Analytic Hierarchy Process: Effects of Participant Grouping Scenarios. *Environmental Modelling & Software*. (25) (2010): 1459-1469.
- Lee, J., E. Kleczyk, D. Bosch, E. Tanellari, S. Dwyer, and A. Dietrich. Case Study: Preference Trade-offs Towards Home Plumbing Attributes and Materials. *Journal of Water Resources Planning and Management*. (135:4) (July/August 2009): 237-243.
- Farooqi, O. E., Loganathan, G. V. (Late), Lee, J., Edwards, M. A., Scardina, P., and Bosch, D. Criteria for Plumbing System Replacement. *Journal of Water Resources Planning and Management*. (135:4) (July/August 2009): 227-236.
- Kuminoff, N. V., D. J. Bosch, D. Kauffman, J. C. Pope, and K. Stephenson. The Growing Supply of Ecolabeled Seafood: An Economic Perspective. *Sustainable Development Law and Policy* (9:1) (Fall 2008): 25-28.
- Kleczyk, E. and D. J. Bosch. Incidence and Costs of Home Plumbing Corrosion. *Journal of the American Water Works Association*. (100:12) (December 2008): 122-133.
- Bosch, D. J., K. Stephenson, G. Groover, and B. Hutchins. Farm Returns to Carbon Credit Creation with Intensive Rotational Grazing. *Journal of Soil and Water Conservation*. (63:2) (March/April 2008): 51A and 91-98.
- Kaltsas, I. K., D. J. Bosch, and A. McGuirk. Residential Land Values in Urbanizing Areas. *Journal of Agricultural and Applied Economics*. (40:2) (August 2008): 635-647.

Book Chapter

- Kleczyk, E. J. and D. J. Bosch. Households' Preferences for Plumbing Materials, Corrosion Resistance, Dr Shih (Ed.), ISBN: 978-953-51-0467-4, InTech, (2012) Available from: <http://www.intechopen.com/books/corrosion-resistance/households-preferences-for-plumbing-materials> September.

HONORS AND AWARDS

- Honorable Mention, Agricultural and Applied Economics Association Land, Water and Environmental Economics Section Outstanding Poster Award for "Costs of Meeting Water Quality Goals under Climate Change in Urbanizing Watersheds: Difficult Run, Virginia" with coauthors Jonathon Giuffria, Daniel Taylor, and Nasrin Alamdari, presented at the AAEA annual meetings in Boston, July 30-August 2, 2016.
- Co-Editor, *Journal of Agricultural and Applied Economics* (2010-2013) (with Mary Marchant)
- Agricultural and Resource Economics Review Outstanding Journal Article 2007 (with Todd Metcalfe, James Pease, Mark Alley, and Steve Phillips)
- Visiting Scholar at LAMETA (Institute of Applied and Theoretical Economics), Montpellier, France, Jan-Jul, 2008.
- Soil and Water Conservation Society honorable mention for Best Journal of Soil and Water Conservation Feature Article, 1999 (with L. S. Van Dyke, J. W. Pease, and J. C. Baker).
- Agric. Economics Association of South Africa (AEASA) award for best published article in 1995 (Article published in *Water SA* with James H. F. Botes and L. Klopper Oosthuizen).
- SSJ de Swart Award from AEASA for best published article in *Agrekon* in 1994 (with James H. F. Botes and L. Klopper Oosthuizen).
- Visiting Scholar, Resources and Technology Division, Economic Research Service, U.S. Department of Agriculture, August 1992-July 1993.

SPONSORED RESEARCH AND OTHER GRANT AWARDS

PI/PD : \$319,152

Co-PI : \$15,251,705

Current

Easton et al. “WSC-Category 1 Collaborative Proposal: Coupled Multi-Scale Economic, Hydrologic, and Estuarine Modeling to Assess Impacts of Climate Change on Water Quality Management.”\$600,000. NSF, 7/1/2014-6/30/2018.

MAJOR TEACHING AND ADVISING ACTIVITIES (since 2008)

AAEC 3014 Analytical Methods in Applied Economics—3 hrs (2010-2017)

AAEC 4404 Agricultural Management and Problem Solving—4 hrs (2010) (with White)

AAEC 5114 Appl. Microecon. Theory—3 hrs (2009-2015) (with Peterson)

AAEC 4344 Sustainable Development Economics—3 hrs (2008)

AAEC 5104 Research Project Plan.—1 hr (2009-2017)

ALS/NR 4614 Watershed Assessment, Management, and Policy—2 hrs (2009, 2011-2017) (with Wolfe, Schoenholtz, McGuire)

AAEC 3015 SANREM Ecuador Intern. Prog.—1 hr (2009, 2011, 2013) (with Alwang, Norton)

Advisor to 18 undergraduate interns participating in SANREM-sponsored research in Ecuador (with Alwang, Norton)

Currently major/co-major advisor to 1 M.S. students and 2 Ph.D students.