

**Darrell Jonathan Bosch**  
**Professor, Agricultural and Applied Economics, Virginia Tech**  
**308 Hutcheson Hall**  
**540-231-5265; bosch@vt.edu**

## **PROFESSIONAL PREPARATION**

<u>College/University</u>	<u>Major</u>	<u>Degree &amp; 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***

- Xu, Y.\*, D.J. Bosch, M.B. Wagena, A.C. Ross, A.S. Collick, and Z.M. Easton. 2018. Meeting Water Quality Goals by Spatial Targeting under Climate Change. In press, Environmental Management. DOI: 10.1007/s00267-018-01133-8
- Bosch, D.J., M.B. Wagena, A.C. Ross, A.S. Collick, and Z.M. Easton. 2018. Meeting Water Quality Goals under Climate Change in Chesapeake Bay Watershed, USA. Journal of the American Water Resources Association. 1-19, <https://doi.org/10.1111/1752-1688.12684>.
- Cao, X.\*, D.J. Bosch, and J.W. Pease. 2017. Recycling Irrigation Water on Ornamental Nursery Operations: Will Consumer Premiums Compensate for Growers' Costs? HortScience. 52(12) (December):1780–1789. doi: 10.21273/HORTSCI12125-17
- Giuffria, J.M., D.J. Bosch, D.B. Taylor, and N. Alamdari. 2017. Costs of Water Quality Goals under Climate change in Urbanizing Watersheds: Difficult Run, Virginia. Journal of Water Resources Planning and Management. 143(9)(2017): 04017055 12 pp. 10.61/(ASCE)WR.1943-5452.0000782.
- Ferraro, N., D.J. Bosch, J.W. Pease, and J.S. Owen. Costs of Capturing and Recycling Irrigation Water in Container Nurseries. HortScience. 52(23)(2017): 258-263.
- Cultice, A., D.J. Bosch, J. Pease, K.J. Boyle, and W. 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. Mykerezi. 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, A., D.J. Bosch, and H. 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, D.J., J. Pease, R. Wieland, and D. 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.
- Arnette, A., 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-materialsSeptember>.

### **HONORS AND AWARDS**

- Lifetime Achievement Award, Southern Agricultural Economics Association, 2018
- 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**

An Agro-ecosystem Model to Achieve Agricultural Sustainability for the Delmarva. with A. Collick, Z. Easton, and R. White. Delmarva Land Grant Institution Cooperative Research Seed Funding Program. \$29,809.

#### **MAJOR TEACHING AND ADVISING ACTIVITIES (since 2008)**

AAEC 3014 Analytical Methods in Applied Economics—3 hrs (2010-2019)

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 (2009-2019)

ALS/NR 4614 Watershed Assessment, Management, and Policy—2 hrs (2009, 2011-2019) (with Wolfe, Schoenholtz, McGuire)

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

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

Currently major/co-major advisor to 2 Ph.D students.