

Name Walter K. Dodds

Title University Distinguished Professor

Publications

Books

Dodds, W. K. 2009. *Laws, Theories and Patterns in Ecology*. University of California Press. 232 pp

Dodds, W. K. 2008. *Humanity's Footprint: Momentum, Impact and Our Global Environment*. University of Columbia Press. 270 pp.

Dodds, W. K. 2002. *Freshwater Ecology: Concepts and Environmental Applications*. Academic Press. 569 pp.

Peer Reviewed Publications:

Gido, K.B., K.N. Bertrand, J.N. Murdock, W.K. Dodds, and M.R. Whiles. (In press). Disturbance mediated effects of stream fishes on ecosystem processes: concepts and results from highly variable prairie streams. In: *Advances in Stream Fish Community Ecology: Concepts, Approaches and Techniques* (Eds. K.B. Gido and D.A. Jackson). American Fisheries Society Symposium Publication Series.

Helton, A, G. C Poole, J. L. Meyer, W. M. Wollheim, B. J. Peterson, P. J. Mulholland, E. S. Bernhardt, J. A Stanford, C Arango, L. R. Ashkenas, , L. W. Cooper, , W. K. Dodds, , S. V. Gregory, , R. O. Hall, Jr., S. K. Hamilton, , S. L. Johnson, W. H. McDowell, J. D. Potter, J. L. Tank, S. M. Thomas, H. M. Valett, J. R. Webster, and L. Zeglin (in press) Thinking outside the channel: Modeling nitrogen cycling in networked river ecosystems. *Frontiers in Ecology and Environment*

Murdock, J. M. K. B. Gido, W. K. Dodds, K. N. Bertrand, M. R. Whiles (in press) Consumer return chronology alters recovery trajectory of stream ecosystem structure and function following drought. *Ecology*

O'Brien, J. M., and W. K. Dodds (in press) Saturation of nitrate uptake in prairie streams as a function of acute and chronic nitrogen exposure. *Journal of the North American Benthological Society*

Banner, E., A. Stahl, W. K. Dodds 2009. Stream discharge and riparian land use influence in-stream concentrations and loads of phosphorus from Central Plains watersheds. *Environmental Management* 44:552–565. DOI 10.1007/s00267-009-9332-6

Bertrand, K. N., K. B. Gido, W. K. Dodds, J. N. Murdock and M. R. Whiles. 2009. Disturbance frequency and functional identity mediate ecosystem processes in prairie streams. *Oikos*. 118: 917-933.

Dodds, W. K., W. Bouska, J. L. Eitzmann, T. J. Pilger, K. L. Pitts, A. J. Riley, J. T. Schloesser and D. J. Thronbrugh 2009. Eutrophication of U.S. Freshwaters: Analysis of Potential Economic Damages. *Environmental Science and Technology*. 43:12-19.

- Evans-White, M. A., W. K. Dodds, D. G. Huggins, D. S. Baker. 2009 Threshold patterns in aquatic biodiversity across water quality gradients in Central Plains streams and rivers. *Journal of the North American Benthological Society* 28:855-868.
- Hall, R. O. Jr., J. L. Tank, D. J. Sobota, P. J. Mulholland, J. M. O'Brien, W. K. Dodds, J. R. Webster, H. M. Valett, G. C. Poole, B. J. Peterson, J. L. Meyer, W. H. McDowell, S. L. Johnson, S. K. Hamilton, N. B. Grimm, S. V. Gregory, C. N. Dahm, L. W. Cooper, L. R. Ashkenas, S. M. Thomas, R. W. Sheibley, J. D. Potter, B. R. Niederlehner, L. T. Johnson, A. M. Helton, C. M. Crenshaw, A. J. Burgin, M. J. Bernot, J. J. Beaulieu and C. P. Arango 2009. Nitrate removal in stream ecosystems measured by <sup>15</sup>N addition experiments: Total uptake. *Limnology and Oceanography*. 54:563-665
- Knapp, C. W., W. K. Dodds, K. C. Wilson, J. M. O'Brien and D. W. Graham. 2009. Spatial heterogeneity of denitrification genes in a highly homogenous urban stream. *Environmental Science and Technology*. 43:4273-4279
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#### Book Chapters

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