

2021-2022

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Gamble, J.D., Baker, J.M., Dalzell, B.J., Wentz, C.D., Feyereisen, G.W. 2022. Ecohydrology of irrigated silage maize and alfalfa production systems in the Upper Midwest US. *Agricultural Water Management*. 267. Article 107612. <https://doi.org/10.1016/j.agwat.2022.107612>.

Hansen, A.T., Campbell, T., Cho, S., Czuba, J.A., Dalzell, B.J., Dolph, C.L., Hawthorne, P.L., Rabotyagov, S., Lang, Z., Kumarasamy, K., Belmont, P., Finlay, J.C., Foufoula, E., Gran, K.B., Kling, C., Wilcock, P. 2021. Integrated assessment modeling reveals near-channel management as cost-effective to improve water quality in agricultural watersheds. *Proceedings of the National Academy of Sciences (PNAS)*. 118(28). Article e2024912118. <https://doi.org/10.1073/pnas.2024912118>.

2016-2020

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Cho, S.J., C. A. Braudrick, C.L. Dolph, S. Day, B.J. Dalzell, and P.R. Wilcock. 2020. Simulation of fluvial sediment dynamics through strategic assessment of stream gauge data: A targeted watershed sediment loading analysis. *Journal of Environmental Management*. <https://doi.org/10.1016/j.jenvman.2020.111420>.

Daws, S.C., L.A. Cline, J. Rotenberry, M.J. Sadowsky, C. Staley, B. Dalzell, and P.G. Kennedy. 2020. Do shared traits create the same fates? Examining the link between morphological type and the biogeography of fungal and bacterial communities. *Fungal Ecology*. <https://doi.org/10.1016/j.funeco.2020.100948>.

Dolph, C.L., E. Boardman, M. Danesh, J. Finlay, A. Hansen, A. Baker, and B. Dalzell. 2019. Phosphorus Transport in Intensively Managed Watersheds. *Water Resources Research*. <https://doi.org/10.1029/2018WR024009>.

Antolini, F., E. Tate, B. Dalzell, N. Young, K. Johnson, and P. Hawthorne. 2019. Flood Risk Reduction from Agricultural Best Management Practices. *Journal of the American Water Resources Association*. <https://doi.org/10.1111/1752-1688.12812>.

Gran, K. C. Dolph, A. Baker, M. Bevis, S.J. Cho, J.A. Czuba, B. Dalzell, A. Hansen, S. Kelly, Z. Lang, J. Schwenk, P. Belmont, J.C. Finlay, P. Kumar, S. Rabotyagov, G. Roehrig, P. Wilcock, and E. Foufoula-Georgiou. 2019. The power of environmental observatories for advancing multidisciplinary research, outreach, and decision support: the case of the Minnesota River Basin. *Water Resources Research*. <https://doi.org/10.1029/2018WR024211>

Keeler, B.L., B.J. Dalzell, J.D. Gourevitch, P.L. Hawthorne, K.A. Johnson, and R.R. Noe. 2019. Putting people on the map: Focus on endpoints for improved ecosystem service prioritization. *Frontiers in Ecology and the Environment*. <https://doi.org/10.1002/fee.2004>.

N., K. Kumarasamy, S.Cho, P. Belmont, B. Dalzell, and K. Gran. August 2018. Reducing High Flows and Sediment Loading through Increased Water Storage in an Agricultural Watershed of the Upper Midwest, USA. *Water*. 10, 1053. <https://doi.org/10.3390/w10081053>

Dalzell, B.J. and D.J. Mulla. 2018. Perennial vegetation impacts on stream discharge and channel sources of sediment in the Minnesota River Basin. *Journal of Soil and Water Conservation*. 73(2) 120-132. <https://doi.org/10.2489/jswc.73.2.120>

Brown, C.M., C. Staley, P. Wang, B. Dalzell, C.L. Chun, and M.J. Sadowsky. 2017. A high-throughput DNA-sequencing approach for determining sources of fecal bacteria in a Lake Superior estuary. *Environmental Science and Technology*. 51 (8263-8271). <https://doi.org/10.1021/acs.est.7b01353>

Pennington, D., B. Dalzell, E. Nelson, S. Polasky, D. Mulla, S. Taff, P. Hawthorne., and S. Polasky. 2017. Cost-effective land use planning: Optimizing spatial land management to maximize social benefits. *Ecological Economics*. 139: 75-90. <https://doi.org/10.1016/j.ecolecon.2017.04.024>

Fissore, C., B.J. Dalzell, A.A. Berhe, M. Voegtli, M. Evans, and A. Wu. 2016. Influence of topography on soil organic carbon dynamics in a southern California grassland. *Catena*. 149: 140-149. <https://doi.org/10.1016/j.catena.2016.09.016>

Johnson, K.A., B.J. Dalzell, M. Donahue, J. Gourevitch, D.L. Johnson, G.S. Karlovits, B. Keeler, and J.T. Smith. 2016. Conservation Reserve Program (CRP) lands provide ecosystem service benefits that exceed land rental payment costs. *Ecosystem Services*. 18: 175-185. <https://doi.org/10.1016/j.ecoser.2016.03.004>

## 2011-2015

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Wilson, G., B.J. Dalzell, D. Mulla, P. Porter, and T. Dogweiler. 2014. Estimating water quality effects of conservation practices and grazing land use change scenarios. *Journal of Soil and Water Conservation* 69(4):330-342. <https://doi.org/10.2489/jswc.69.4.330>

Dalzell, B.J., J.M.F. Johnson, J. Tallaksen, D.L. Allan, and N.W. Barbour. 2013. Simulated impacts of crop residue removal and tillage on soil organic matter maintenance. *Soil Science Society of America Journal*. 77: 1349-1356. <https://doi.org/10.2136/sssaj2012.0221>

Keeler, B., S. Polasky, K. Brauman, K. Johnson, J. Finlay, A. O'Neill, K. Kovacs, and B. Dalzell. 2012. Linking water quality and well-being for improved assessment and valuation of ecosystem services. *Proceedings of the National Academy of Sciences*. <https://doi.org/10.1073/pnas.1215991109>

Gowda, P.H., J.V. Westra, D. Petrolia, B.J. Dalzell, and D.J. Mulla. 2011. Impact of targeted removal of residue cover on water quality in the Sand Creek watershed. *Journal of Environmental Hydrology*. 19(25), 1-12

Dalzell, B.J., J.Y. King, D.J. Mulla, J.C. Finlay, and G.R. Sands. 2011. Influence of subsurface drainage on quantity and quality of dissolved organic matter export from agricultural landscapes. *Journal of Geophysical Research*. <https://doi.org/10.1029/2010JG001540>

Kruger, B.R., B.J. Dalzell, and E.C. Minor. 2011. Effect of organic matter source and salinity on dissolved organic matter isolation via ultrafiltration and solid phase extraction. *Aquatic Sciences*. <https://doi.org/10.1007/s00027-011-0189-4>

2010 and prior

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Dalzell, B.J., E.C. Minor, and K. Mopper. 2009. Photodegradation of estuarine dissolved organic matter: A multi-method assessment of DOM transformation. *Organic Geochemistry*. 40(243-257) <https://doi.org/10.1016/j.orggeochem.2008.10.003>

Minor, E. C., B. J. Dalzell, and K. Mopper. 2007. Effects of photodegradation on the composition and optical properties of dissolved organic matter in a temperate estuary. *Aquatic Sciences*. <https://doi.org/10.1007/s00027-007-0897-y>

Dalzell, B. J., T. R. Filley, and J. M. Harbor. 2007. The role of hydrology in annual organic carbon loads and terrestrial organic matter export from a midwestern agricultural watershed. *Geochimica et Cosmochimica Acta*. <https://doi.org/10.1016/j.gca.2006.12.009>

Gowda, P. H., B. J. Dalzell, D. J. Mulla. 2007. Model based nitrate TMDLs for two agricultural watersheds of southeastern Minnesota. *Journal of the American Water Resources Association*. 43(1), 254-263: <https://doi.org/10.1111/j.1752-1688.2007.00020.x>

Minor, E. C., J. Pothen, B. J. Dalzell, H. Abdulla and K. Mopper. 2006. Effects of salinity changes on the photodegradation and UV-visible absorbance of terrestrial dissolved organic matter. *Limnology and Oceanography*. 51(5), 2181-2186. <https://doi.org/10.4319/lo.2006.51.5.2181>

Dalzell, B. J., T. R. Filley, and J. M. Harbor. 2005. Flood pulse influences on terrestrial organic matter export from an agricultural watershed. *Journal of Geophysical Research*. 110(G02011). <https://doi.org/10.1029/2005JG000043>

Dalzell, B. J., P. H. Gowda, and D. J. Mulla. 2004. Modeling sediment and phosphorus losses in an agricultural watershed to meet TMDLs. *Journal of the American Water Resources Association*. 40(2): 533-543. <https://doi.org/10.1111/j.1752-1688.2004.tb01048.x>

Johansson, R. C., P. H. Gowda, D. J. Mulla, and B. J. Dalzell. 2004. Metamodeling phosphorus best management practices for policy use: a frontier approach. *Agricultural Economics*. 30: 63-74. <https://doi.org/10.1016/j.agecon.2003.10.001>

Mulla, D. H., P. H. Gowda, A. S. Birr, and B. J. Dalzell. 2003. Estimating nitrate-N losses at different spatial scales in agricultural watersheds. Book chapter. *Scaling Methods in Soil Physics*. CRC Press. p. 295-307.

Gowda, P. H., D. J. Mulla, and B. J. Dalzell. 2003. Examining and targeting conservation tillage practices to steep/flat landscapes in the Minnesota River Basin. *Journal of Soil and Water Conservation*. 58(1): 53-57.

Gowda, P. H., B. J. Dalzell, D. J. Mulla, and F. Kollman. 2001. Mapping tillage practices with Landsat Thematic Mapper based logistic regression models. *Journal of Soil and Water Conservation*. 56(2): 91-96.