

LISA FIORINA DURIANCIK

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BIOGRAPHY

Lisa Duriancik is the leader for the Watershed Assessment Studies component of CEAP on the NRCS Outcomes Team. Lisa provides national leadership for a network of watershed-scale projects assessing outcomes, working with numerous partners at the intersection of water and soil resources, conservation and agriculture. Lisa works to document soil and water conservation effects and facilitates development and validation of innovative assessment techniques. Her passion is synthesizing and applying lessons learned to conservation programs, practices, planning tools and policy to improve conservation effectiveness. She has over 29 years of experience - 20 of that with USDA, working on NRCS CEAP and NRCS Great Lakes Restoration Initiative and previously USDA CSREES National Integrated Water Quality Program. Lisa also serves in many roles as a Subject Matter Expert (SME) for NRCS on water quality and availability, soil health, harmful algal blooms and hypoxia. She conducted on-farm research prior to that with The Ohio State University and The Rodale Institute.

CEAP is a multi-agency effort to quantify the environmental effects of conservation practices and programs and develop the science base for managing the agricultural landscape for environmental quality. Project findings are used to guide USDA conservation policy and program development and help conservationists, farmers and ranchers make more informed conservation decisions.

QUALIFICATIONS SUMMARY

- ♦ *comprehensive knowledge of water quality, watershed assessment, conservation, agriculture (crop, integrated crop/livestock, grazing, and organic systems), soil ecology, soil health, nutrient cycling, environmental science, water availability, climate change, geology, ecosystem services*
- ♦ *effective leadership and coordination of interagency efforts and diverse participatory teams*
- ♦ *strong communication, collaboration and team leadership skills* ♦ *delivers high impact work, products*
- ♦ *strong research, analytical, presentation and writing skills* ♦ *29 years work experience*
- ♦ *works well independently and as part of team* ♦ *responsible, self-disciplined*
- ♦ *experience working with ag producers, engaging stakeholders* ♦ *peer reviewed published literature*
- ♦ *extensive program management experience – strategic planning, performance, budget & agreements*

EDUCATION

M.S., Environmental Science (Soil Ecology), The Ohio State University, Columbus, OH, June 2001

B.S., Environmental Science, Allegheny College, Meadville, PA, May 1993; Geology minor

Certificate in Sustainable Development, The School for Field Studies, Center for Sustainable Development Studies, Costa Rica, Sept.-Dec. 1991

- Hiked across the length of the Osa Peninsula and summited Cerro Chirripó (12,533 feet).

Short Course, Georgetown University, School for Governmental Affairs, March 2012

PROFESSIONAL EXPERIENCE

CEAP Watershed Assessment Study Component Leader, USDA Natural Resources Conservation Service, Outcomes Team, Resource Inventory and Assessment Division, October 2013 – present

- Provide overall leadership and program management for Conservation Effects Assessment Project (CEAP) Watershed Assessment Study Component

Acting Coordinator, Great Lakes Restoration Initiative (GLRI), USDA Natural Resources Conservation Service, Landscape Conservation Initiatives Team, January 2016 – September 2016

- Provide overall Program leadership and management for NRCS Great Lakes Restoration Initiative (\$20M Program), collaborating with NRCS HQ and State Conservationists, EPA and other agencies

CEAP Coordinator, Conservation Effects Assessment Project, USDA Natural Resources Conservation Service, August 2007 – October 2013

- Managed and provided technical leadership for the overall multi-agency CEAP Project.
- Chaired and lead Interagency Technical Steering Committee to expand leveraging and collaboration.
- Coordinated with USDA agency partners to help lead and prioritize work for Watershed Assessment and led NRCS CEAP Special Emphasis Watershed Assessment Studies.

Program Specialist, USDA Cooperative State Research, Education and Extension Service, June 2002 – August 2007

- Supported management and leadership of national research, extension and education Programs for the National Integrated Water Quality Program, CEAP Watershed Assessments and the National Research Initiative Air Quality Program.
- Served on the Committee for Shared Leadership for Water Quality with regional university leaders.

Soil Science Operations Manager and Consultant, Soil Consultants Engineering, Inc., Soil Science Division, Manassas, VA, April 2002 – June 2002

Graduate Research Associate in Soil Ecology, The Ohio State University/Ohio Agricultural Research and Development Center, Dept. of Entomology, Wooster, OH; Environmental Science Graduate Program, January 1997 – June 2001

Research Technician, Rodale Institute Research Center, Soil Health Department, Kutztown, PA Farming Systems Trial (FST), January 1994 – January 1997

- Maintained and sampled 10-acre long-term field research trial; performed soil and microbial, crop, and water quality lab analyses; supervised interns
- Researched soil quality parameters and effects of management (cover crops, manure management, conventional fertility; organic practices and conventional production practices)

Research Intern, Rodale Institute Research Center, Rural/Urban Initiative, Kutztown, PA On-Farm Co-Composting Project, May 1993 – January 1994

Research and Teaching Assistant in Geology and Soil Science, Allegheny College University, Geology Department & Environmental Science Department, Meadville, PA, September 1992 – May 1993

HONORS and AWARDS

Invited Presenter & Plenary Session Panelist, *Measuring Outcomes to Advance Conservation*, Annual Soil and Water Conservation Society Conference 2021

Invited Presenter, Soil and Water Conservation Society and Soil Science Society of America Joint Symposium on *Visionary Conservation: Science and Practice* 2021

Editor's Choice Award, Honorable Mention, Journal of Soil and Water Conservation 2021
Moriassi, D.N., L.F. Duriancik, E.J. Sadler, T. Tsegaye, J.L. Steiner, M.A. Locke, T.C. Strickland, and D.L. Osmond. 2020. Quantifying the impacts of the Conservation Effects Assessment Project watershed assessments: The first fifteen years. Journal of Soil and Water Conservation 75(3)57A-74A. <https://doi.org/10.2489/jswc.75.3.57A>.

Elected President, National Capital Chapter, Soil and Water Conservation Society Dec. 2019-Dec. 2021

Outstanding Chapter Award, National Capital Chapter, Soil and Water Conservation Society 2020 & 2021

Elected Vice President, National Capital Chapter, Soil and Water Conservation Society 2016-2019
 Invited Presenter & Plenary Session Speaker, *Nutrient Management and Edge-of-Field Monitoring* 2015
 Elected Council Member, National Capital Chapter, Soil and Water Conservation Society 2013-2016
 American Association for the Advancement of Sciences (AAAS), Agriculture and Natural Resources
 Roundtable, Exemplary Collaborative Case Study, Conservation Effects Assessment Project 2010
 Most-cited article designation, Journal of Soil and Water Conservation (since publication in 2008) 2016
 Lisa F. Duriancik, Dale Bucks, James P. Dobrowolski, Tom Drewes, S. Diane Eckles, Leonard Jolley, Robert L. Kellogg, Daryl Lund, Joseph R. Makuch, Michael P. O'Neill, Charles A. Rewa, Mark R. Walbridge, Roberta Parry, and Mark A. Weltz. The First Five Years of the Conservation Effects Assessment Project. Journal of Soil and Water Conservation, Vol. 63 (6): 185A-197A. DOI: <https://doi.org/10.2489/jswc.63.6.185A>
 USDA Secretary's Honor Award, CSREES, Team Leadership for eGrants Implementation Team 2007
 Nominated for USDA CSREES Employee of the Year for Science and Education 2005
 Invited Presenter, Soil and Water Conservation Society and Soil Science Society of America Joint Symposium on *Conservation Effects Assessment Project* - Competitively funded watershed case studies: bridging science, outreach, and monitoring. Proceedings of the Soil Science Society of America. 2004
 Awarded Full Tuition Scholarship and Research Assistantship, Graduate School, The Ohio State University, Entomology Department 1997
 Undergraduate Honors: Alden Scholar (honors designation at Allegheny College) 1993
 Outstanding Senior Comprehensive Thesis; Nominated for Barry M. Goldwater National Scholarship; Member of Lambda Sigma National Collegiate Honor Society
 High School Honors: Graduated with honors, National Honor Society 1989

FEDERAL COMMITTEE SERVICE

Binational Great Lakes Water Quality Agreement, Nutrients Subcommittee (Annex 4), 2016 – present
 • Adaptive Management Task Team Member, 2019 – present
 Great Lakes Restoration Initiative Regional Working Group and Focus Area Groups, 2016 – 2018
 • Adaptive Management Pilot Project Team Member, 2016– 2018
 ErieStat Ag Work Group (Great Lakes Commission), 2016– 2020
 Interagency Working Group- Harmful Algal Blooms and Hypoxia Research and Control Act, 2015-present
 • Great Lakes Sub Team Member, 2015 – 2020
 • South Florida Assessment Team Member, 2022– present
 Hypoxia Task Force Coordinating Committee, 2018 – present
 CEAP Interagency Steering Committee, Member then Chair, 2003 – 2013
 CSREES Committee for Shared Leadership for Water Quality, 2003– 2007

PEER-REVIEWED PUBLICATIONS

Fermanich, K., Meyers, M., Loken, L. C., Bischoff-Gray, M., Turco, R., Stahlheber, K., Duriancik, L., Dornbush, M., Komiskey, M. 2022. Challenges in linking soil health to edge-of-field water quality across the Great Lakes basin..Journal of Environmental Quality, 1–15.<https://doi.org/10.1002/jeq2.20364>

Moriasi, D.N., L.F. Duriancik, E.J. Sadler, T. Tsegaye, J.L. Steiner, M.A. Locke, T.C. Strickland, and D.L. Osmond. 2020. Quantifying the impacts of the Conservation Effects Assessment Project watershed assessments: The first fifteen years. Journal of Soil and Water Conservation 75(3)57A-74A. <https://doi.org/10.2489/jswc.75.3.57A>.

Ranjan, P., L.F. Duriancik, D.N. Moriasi, D. Carlson, K. Anderson and L.S. Prokopy. 2020. Understanding the use of decision support tools by conservation professionals and their education and training needs: An application of the Reasoned Action Approach. Journal of Soil and Water Conservation May 2020, 75 (3) 387-399; DOI: <https://doi.org/10.2489/jswc.75.3.387>

- Thompson, A.L., C. Baffaut, S. Lohani, L.F. Duriancik, M.L. Norfleet and K. Ingram. 2020. Purpose, development, and synthesis of the Soil Vulnerability Index for inherent vulnerability classification of cropland soils. *Journal of Soil and Water Conservation* January 2020, 75 (1) 1-11; DOI: <https://doi.org/10.2489/jswc.75.1.1>
- S. Lohani, C. Baffaut, A.L. Thompson, N. Aryal, R.L. Bingner, D.L. Bjorneberg, D.D. Bosch, R.B. Bryant, A. Buda, S.M. Dabney, A.R. Davis, L.F. Duriancik, D.E. James, K.W. King, P.J.A. Kleinman, M. Locke, G.W. McCarty, L.A. Pease, M.L. Reba, D.R. Smith, M.D. Tomer, T.L. Veith, M.R. Williams and L.M.W. Yasarer. 2020. Performance of the Soil Vulnerability Index with respect to slope, digital elevation model resolution, and hydrologic soil group. *Journal of Soil and Water Conservation* January 2020, 75 (1) 12-27; DOI: <https://doi.org/10.2489/jswc.75.1.12>
- C. Baffaut, S. Lohani, A.L. Thompson, A.R. Davis, N. Aryal, D.L. Bjorneberg, R.L. Bingner, S.M. Dabney, L.F. Duriancik, D.E. James, K.W. King, S. Lee, G.W. McCarty, L.A. Pease, M.L. Reba, A.M. Sadeghi, M.D. Tomer, M.R. Williams and L.M.W. Yasarer. 2020. Evaluation of the Soil Vulnerability Index for artificially drained cropland across eight Conservation Effects Assessment Project watersheds. *Journal of Soil and Water Conservation* January 2020, 75 (1) 28-41; DOI: <https://doi.org/10.2489/jswc.75.1.28>
- Baffaut, Claire, Allen L. Thompson, Lisa F. Duriancik, Kevin A. Ingram and M. Lee Norfleet. 2020. Assessing cultivated cropland inherent vulnerability to sediment and nutrient losses with the Soil Vulnerability Index. *Journal of Soil and Water Conservation* January 2020, 75 (1) 20A-22A; DOI: <https://doi.org/10.2489/jswc.75.1.20A>
- Duriancik, Lisa F., Katie Flahive and Deanna Osmond. 2018. Application of monitoring to inform policy and programs and achieve water quality goals. *Journal of Soil and Water Conservation* January 2018, 73 (1) 11A-15A; DOI: <https://doi.org/10.2489/jswc.73.1.11A>
- Lee S., Sadeghi A.M., McCarty G.W., Baffaut C., Lohani S., Duriancik L.F., Thompson A.L., Yeo I-Y., Wallace C. 2018. Assessing the suitability of the Soil Vulnerability Index (SVI) on identifying croplands vulnerable to nitrogen loss using the SWAT model. *Catena* 167:1-12. <https://doi.org/10.1016/j.catena.2018.04.021>
- Lisa F. Duriancik, Dale Bucks, James P. Dobrowolski, Tom Drewes, S. Diane Eckles, Leonard Jolley, Robert L. Kellogg, Daryl Lund, Joseph R. Makuch, Michael P. O'Neill, Charles A. Rewa, Mark R. Walbridge, Roberta Parry, and Mark A. Weltz. 2008. The First Five Years of the Conservation Effects Assessment Project. *Journal of Soil and Water Conservation*, Vol. 63 (6): 185A-197A. DOI: <https://doi.org/10.2489/jswc.63.6.185A>

RESEARCH REPORTS and BOOK CHAPTERS

- Kleinman, Peter, Robert P. Brooks, Corina Fernandez, Michael Nassry, Tamie Veith, Gregory McCarty, Carlington Wallace, Erik Hagan, Lou Saporito, Skip Hyberg, Rich Iovanna, Sally Claggett, Lisa Duriancik, and Teferi Tsegaye. 2019. Riparian Forest Buffers of the Susquehanna-Chesapeake Watershed: Observations, Assessments, and Recommendations. Final report on Conservation Reserve Enhancement Program buffers to USDA Farm Service Agency, Washington, DC. <https://www.uvm.edu/seagrant/sites/default/files/files/publication/ARS%20CREP%20Riparian%20Forest%20Buffer%20FINAL%20REPORT.pdf>
- Wainger, Lisa, Loomis, John, Johnston, Robert, Hansen, Leroy, Carlisle, Daren, Lawrence, Doug, Gollehon, Noel, Duriancik, Lisa, Schwarz, Gregory, Ribaud, Marc and Gala, Caron. 2017. Ecosystem Service Benefits Generated by Improved Water Quality from Conservation Practices. https://www.researchgate.net/publication/325541253_Ecosystem_Service_Benefits_Generated_by_Improved_Water_Quality_from_Conservation_Practices
- Groffman, Peter M., Arthur Gold, Lisa Fiorina Duriancik, and R. Richard Lowrance. 2010. From Connecting the Dots to Threading the Needle: The Challenges Ahead in Managing Agricultural Landscapes for

Environmental Quality. *In* Managing Agricultural Landscapes for Environmental Quality II: Achieving more effective conservation. Peter Nowak and Max Schnepf (eds). The Soil and Water Conservation Society. ISBN 978-0-9769432-8-0 pp. 1-12.

Zinn, Jeffrey, and Lisa F. Duriancik. 2010. Will good timing lead to better conservation policy?: The opportunity for new research results to inform the next Farm Bill. *In* Managing Agricultural Landscapes for Environmental Quality II: Achieving more effective conservation. Peter Nowak and Max Schnepf (eds). The Soil and Water Conservation Society. ISBN 978-0-9769432-8-0 Pp. 69-75.

Duriancik, Lisa Fiorina. 2001. Seasonal carbon and nitrogen cycling in a corn to pasture chronosequence and implications for soil carbon and nitrogen storage over time. M.S. Thesis. The Ohio State University, Environmental Science Graduate Program, Columbus, OH. 142 pp.

Noyes, Thomas E., Terry Beck, Don Brown, Lisa Fiorina, David McCartney, Benjamin Stinner, Deborah Stinner. 1998. Integrating nutrient cycling processes and economics on dairy farms using management intensive grazing in northeast OH. Report to The Great Lakes Basin Grazing Network.

Fiorina, L.J., C. Oshins, L. Weber, J. Harper, R. Graves. 1996. Economic evaluation of agricultural composting as a manure management alternative: Four case studies. Rodale Institute Research Report. 56 pp.

Oshins, C. and L. Fiorina. 1993. Challenges of on-farm composting. *BioCycle*. 34 (11):72-73.

Fiorina, L.J. 1993. Bioturbation patterns in nearshore coastal sediments as an indicator of wave dynamics and sediment transport. Allegheny College, Departments of Environmental Science and Geology, Undergraduate Comprehensive Senior Thesis. 93 pp.

GOVERNMENT REPORTS

Baffaut, C., Moriasi, D.N., Duriancik, L., Tsegaye, T.D., Bjorneberg, D.L., Bosch, D.D., Faulkner, J., Harter, T., Huang, C., Johnson, L., King, K.W., Kisekka, I., Kleinman, P.J., Lizotte Jr, R.E., Locke, M.A., Mccarty, G.W., Moorman, T.B., Reba, M.L., Smith, D.R., Wang, D., Williams, M.R., Wilson, G.V. 2021. The Conservation Effects Assessment Project - Watershed Assessment Studies Network. Government Publication/Report. Available: https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcseprd1838430.

Contributing Author to the Following Reports:

Harmful Algal Blooms and Hypoxia in the Great Lakes: An Interagency Progress and Implementation Report (2022)

Harmful Algal Blooms and Hypoxia in the Great Lakes: An Interagency Progress and Implementation Report (2020)

Harmful Algal Blooms and Hypoxia in the United States: A Report on Interagency Progress and Implementation (2018)

Harmful Algal Blooms and Hypoxia in the Great Lakes Research Plan and Action Strategy: An Interagency Report (2017)

Harmful Algal Blooms and Hypoxia Comprehensive Research Plan and Action Strategy: An Interagency Report (2016)

Hypoxia Task Force Reports to Congress (2015, 2017 and 2019/2021)

Great Lakes Restoration Initiative Action Plan III (2019)

Great Lakes Restoration Initiative Reports to Congress and the President (2016, 2017, 2018)

Great Lakes Restoration Initiative Action Plan III Measures Reporting Plan, (2021)

Great Lakes Restoration Initiative Adaptive Management Process (2016)

Great Lakes Restoration Initiative Adaptive Management Pilot Project Findings (2018)

U.S. Action Plan for Lake Erie (2018)

Lake Erie Binational Phosphorus Reduction Strategy (2019)

Binational Progress Report of the Parties, Great Lakes Water Quality Agreement (Annex 4 contribution) (2016, 2019, 2022)

NRCS Great Lakes Restoration Initiative Phosphorus Reduction Estimate Method (2018)

An assessment of coastal hypoxia and eutrophication in U.S. waters. (2003) National Science and Technology Council, Committee on Environment and Natural Resources. Published online at <http://www.oceanservice.noaa.gov/outreach/pdfs/coastalhypoxia.pdf> (Available now online at: <https://digital.library.unt.edu/ark:/67531/metadc25996/>)

Dobrowolski, James P., Michael P. O'Neill, Lisa F. Duriancik, and Joann Throwe (ed.). Agricultural Water Reuse Listening Session Final Report. October 29-November 1, 2006. Santa Rosa, CA. U.S. Department of Agriculture, Research, Education, and Economics Mission Area. http://arch.umd.edu/sites/default/files/docs/publications/opps_challenges_agwater_reuse.pdf.

Dobrowolski, James P., Michael P. O'Neill, and Lisa F. Duriancik (ed.). 2005. Agricultural Water Security Listening Session Final Report. September 9-10, 2004. Park City, UT. U.S. Department of Agriculture, Research, Education, and Economics Mission Area. 52 pp. [No longer available on-line](#).