Professional Affiliations

Faulkner, J.W., J.L. Miller, T.J. Basden, D.B. DeVallance. 2015. Woodchip heavy-use area effluent quality, quantity, and hydrologic design considerations. *Applied Engineering in Agriculture.* 31(5):783-790.

Identifying Appropriate Technology for Improving the Financial Sustainability and Resilience of Small Farms: Phase One, (PI), Argosy Foundation, 2021, ($40,000)

Degree of Phosphorus Saturation Addition to the West Virginia Phosphorus Index, (PI), US Environmental Protection Agency, Chesapeake Bay Program, 2020-2021 ($10,279)

Discovery Acres: Establishing a Water Quality Demonstration and Research Site, (Co-PI), Vermont Agency of Agriculture, Food and Markets, 2020 – 2024 ($1,000,000)

Vermont Climate Assessment 2020, (Co-PI), Gund Institute Catalyst Award, 2020-2021 ($50,000)

Paired Watershed Conservation Effects Assessment Project (CEAP) for Lake Champlain Basin, (PI), USDA-NRCS, 2019-2023 ($500,000)

Lake Champlain Basin Conservation Effects Assessment Project (CEAP): Evaluation of innovative and stacked conservation practices at the field-scale, (PI), USDA-NRCS, 2019-2023 ($815,000)

Performance Evaluation of a Phosphorus Removal Technology, (Co-PI), Newtrient LLC., 2019 ($35,343)

Whole Farm Water: Improving water use efficiency in Northeast specialty crop operations, (Co-PD), USDA NIFA AFRI Foundational Program Conference Grant, 2019-2020 ($49,779)

Turn the tap: Integrated research to support sustainable irrigation practices on northeast vegetable farms, (PI), USDA SARE Research for Novel Approaches in Sustainable Agriculture, 2019-2022 ($124,982)

Improving our understanding of interactions among BMPs, tile drainage, and P losses in subsurface and surface runoff, (PD), Lake Champlain Sea Grant, 2019-2021 ($149,997)

Evaluating Alternative Runoff Management Practices for VT Dairy Farm Production Areas, (Co-PI), Vermont Agricultural Experiment Station Competitive Hatch Award, 2018-2021 ($29,775)

Development of an Approach and Tool to Optimize Farm-Scale Ph0 g0 G[eAmE-4(d)5( )]TJETQq12 0 61222222222E

Revision of the Vermont Phosphorus Index for Improved Nutrient Management and Water Quality, (PI), USDA-NRCS Vermont Conservation Innovation Grant, 2016 ($74,996)

Increasing Ecosystem Services and Climate Change Resilience in Dominant Agroecosystems of the

Investigation of Vegetative Treatment Systems for Wood Chip Feeding Area Effluent, (PI), WVU Extension Service Seed Grant for Research, 2009-2010 ($2,796)

Conference Presentations and Posters

Sarazen, J., J.W. Faulkner, and S. Hurley. 2020. Evaluating nutrient removal of a woodchip bioreactor treatment system receiving silage bunker runoff. Northeast Agricultural and Biological Engineering Conference, July 28-29, 2020. Virtual Meeting.

Faulkner, J.W. 2020. Conservation Effects Assessment Project: Lake Champlain Basin of Vermont. Soil and Water Conservation Society CEAP Annual Meeting, July 27, 2020, Virtual Meeting.

Faulkner, J.W. and R.E. Schattman. 2019. Water Use Efficiency and Technology on Northeastern Vegetable and Small Fruit Farms. The Northeast Specialty Crop Water Symposium, December 18-19, Burlington, VT.

Schattman, R. E. & J.W. Faulkner. 2019. On-farm irrigation monitoring and initial results from a controlled irrigation trial in Burlington, Vermont. The Northeast Specialty Crop Water Symposium, December 18-19, Burlington,

Schattman, R.E. and J.W. Faulkner. 2018. Whole Farm Water: Collaborative science for farm irrigation decisions in vegetable production systems (abstract 352915). 2018 American Geophysical Union Fall Meeting. December 10-14, 2018, Washington, D.C.

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agricultural advisor perspectives and needs. College of Agriculture and Life Sciences, University of Vermont. Burlington, VT.

White, A. and J.W. Faulkner. 2019. Enhancing participation in payment for ecosystem services programs: understanding farmer perspectives. Research update for Vermont Policymakers. University of Vermont Extension. Burlington, VT.

Schattman, R.E. and J.W. Faulkner. 2019. How Much is Enough? Dialing in Irrigation on Northeast Diversified Vegetable Farms. USDA Northeast Climate Hub Research Brief. https://www.climatehubs.oce.usda.gov/sites/default/files/ResearchBrief_Irrigation_Schattman_Feb2019_final_web_508.pdf

White, A., Faulkner, J., Sims, S., Tucker, P., & Weatherhogg, K. 2018. Report of the 2017-2018 New England Adaptation Survey for Vegetable and Fruit Growers. Department of Plant and Soil Science, University of Vermont. Burlington, VT.

Faulkner, J.W. and K. Williams. 2017. Field Testing Soil Moisture Sensors for Improved Pasture Management. University of Vermont Extension Factsheet SAFS-4.

Faulkner, J.W. 2017. Woodchip Pads for Livestock. University of Vermont Extension Factsheet SAFS-5.

Bjorkman, T., M. Cavigelli, D. Dostie, J.W. Faulkner, L. Knight, S. Mirsky, B. Smith. 2017. Cover Cropping to Improve Climate Resilience. USDA Northeast Climate Hub. https://www.climatehubs.oce.usda.gov/northeast/educational-materials/factsheets

Grubinger, V., C. Callahan, J.W. Faulkner, J. Buckley, and R. Achilles. 2016. Guidance on Wash Water Discharge from Vegetable Pack Sheds – Advice on System Design. University of Vermont Extension.

Graziosi, M. and J.W. Faulkner. 2016. Designing Variable-Width Filter Strips on Vermont Fields Using the AgBufferBuilder ArcGIS Tool. University of Vermont Extension Factsheet SAFS-3.

Easton, Z.M. and J.W. Faulkner. 2016. Communicating Climate Change to Agricultural Audiences. Virginia Cooperative Extension Publication BSE-203P. College of Agriculture and Life Sciences, Virginia Tech.

Faulkner, J.W. 2014. Climate Change and Agriculture in Vermont. University of Vermont Extension Factsheet SAFS-2.

Faulkner, J.W. and Z.M. Easton. 2014. Agricultural Adaptation to Climate Change: Improving Resilience in Row Crop Production. University of Vermont Extension Factsheet SAFS-1.

Faulkner, J.W. 2014. Low-cost Irrigation Sand Filter. University of Vermont Extension Factsheet.

Easton, Z.M., and J.W. Faulkner. 2014. Climate Change Adaptation for Agriculture: Mitigating Short- and Long-term Impacts of Climate on Crop Production. Virginia Cooperative Extension Factsheet BSE-109P. http://pubs.ext.vt.edu/BSE/BSE-109/BSE-109.html

Faulkner, J.W. 2013. Managing Silage Leachate. West Virginia University Extension Service Fact Sheet No. AG13-17.

Faulkner, J.W., T. Basden, and B. Broxterman. 2013. Setback Recommendations to Reduce Runoff Risk from Manure Applications. West Virginia University Extension Service Fact Sheet No. AG13-77.

Faulkner, J.W. 2013. The World's Water. West Virginia University Extension Service 4-H Skill-a-thon. Publication No. 4H13-204.

Faulkner, J.W. 2011. How phosphorus is lost from farmland. *Mid-Atlantic Regional Agronomist Quarterly Newsletter.* December 2011.

Faulkner, J.W. 2011. Composting: good way to manage livestock carcasses. *West Virginia Farm Bureau News.* 19(9).

Faulkner, J.W. 2011. How Phosphorus Is Lost from Farmland. West Virginia University Extension Service Fact Sheet No. AG11-166. http://anr.ext.wvu.edu/r/download/101822

Faulkner, J.W. 2011. Producers should be proactive in a changing regulatory climate. *West Virginia Farm Bureau News.* 19(2).

Faulkner, J.W., T. Basden, and C. Richmond. 2011. New CAFO Rule: What do producers need to do?. West Virginia University Extension Service website. http://anr.ext.wvu.edu/livestock/cafo

Faulkner, J.W. and B. Broxterman. 2010. Litter Loading Bench Standard Design. West Virginia Natural Resources Conservation Service Conservation Practice Standard #634.

Faulkner, J.W. 2010. Snowstorms and Overloaded Roofs. Feature publication on West Virginia University Extension website.

Faulkner, J.W. 2009. Woodchip Wintering Area. West Virginia Conservation Agency Agricultural Enhancement Program Conservation Practice Standard.

Faulkner, J.W. 2009. Small Farms and Conservation: Why?. *West Virginia Small Farm Advocate*. Summer Edition.

<u>Invited Presentations</u>

Basics of N and P for Water Quality. Vermont Vegetable and Berry Growers Winter Webinar Series.

Tile Drainage Research in Vermont. University of Maine Certified Crop Advisors In-Service Training. January 28, 2021. Virtual.

Climate Change: Observations and Localized Impacts in the Northeast. Climate Adaptation Fellowship Kick-off Workshop. January 12, 2021. Virtual.

Creating a Climate and Environmentally Resilient Food System. Vermont Farm-2-Plate Network Annual Gathering. October 12, 2020. Virtual.

Applied research and outreach at the intersection of agriculture, climate change, and water quality in Vermont. Gund Institute for Environment GundxChange Seminar Series. October 2, 2020. Virtual.

Irrigation Efficiency and Soil Moisture Monitoring Technology. UMass Agricultural Water Virtual Twilight Series. September 16, 2020. Virtual.

Tile Drainage and Nutrient Loss: Basics and Current Research. Vermont Agricultural Water Quality Partnership Science Advisory Committee. September 11, 2020. Virtual.

Climate Change and Agricultural Resilience in New England. 2019 Island Agrology Workshop. August 19, 2019. Stanley Bridge, Prince Edward Island, Canada.

Dairy Farming, Climate Change, and the Marketplace. American Cheese Society Annual Conference. August 2, 2019. Richmond, VA.

The Vermont Phosphorus Index, Tile Drainage Research, and Edge-of-Field Monitoring Results. Vermont Water Quality Science Week. April 29-30, 2019. Burlington, VT.

Soil and Water Resources and New England Agriculture in the Age of Climate Change. Association of Conservation Districts New England Leadership Meeting. March 25, 2019. Portsmouth, NH.

Vermont Tile Drainage: The Year in Review. 2019 Vermont No-Till and Cover Crop Symposium. February 28, 2019. Burlington, VT.

Climate Change, Farming, and Energy Considerations in Vermont. Vermont Community Energy and Climate Action Conference. December 12, 2014. Fairlee, VT.

Chair, Lake Champlain Basin CEAP Stakeholder Advisory Committee