

John D. Madsen, PhD

Research Biologist,
Invasive Species and Pollinator Health Research Unit,
Agricultural Research Service,
US Department of Agriculture



Bio:

Dr. John D. Madsen is Research Biologist with the US Department of Agriculture, Agricultural Research Service, Invasive Species and Pollinator Health Research Unit on the campus of University of California-Davis. Previously, he was a faculty member at Mississippi State University for ten years, and a Research Biologist with the US Army Engineer Research and Development Center. Dr. Madsen has a Bachelor of Science degree from Wheaton College, Wheaton, IL, and Master of Science and Doctor of Philosophy degrees in Botany from the University of Wisconsin-Madison.

Bradley Sartain, PhD

Research Biologist,
Environmental Laboratory,
Engineer Research and Development Center



Bio:

Dr. Bradley Sartain has been studying the biology, ecology, and management of aquatic plants for the past 10 years, with a primary focus on chemical control of submersed, emergent, and floating invasive species. Dr. Sartain earned a BS-Wildlife, Fisheries, & Aquaculture (2011) and MS-Agriculture (2014) from Mississippi State University. He went on to work as an aquatic herbicide applicator and fisheries biologist before continuing his education at Louisiana State University, where he earned a Ph.D. in Agronomy in 2018. Shortly thereafter, he began his Federal career as a Research Biologist in the Aquatic Ecology and Invasive Species Branch of the Environmental Laboratory (EL) at the US Army Engineer Research and Development Center (ERDC), Vicksburg, MS. Dr. Sartain's current research focuses on linkage of herbicide concentration exposure time requirements with water exchange processes, utility of bubble curtain technology at decreasing water exchange, evaluation of newly registered aquatic herbicides, and the selective control of invasive aquatic plant species.

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Nathan Harms, PhD

Research Biologist,
Environmental Laboratory,
Engineer Research and Development Center

Bio:

Dr. Nathan Harms is a Research Biologist in the Aquatic Ecology and Invasive Species Branch of the US Army Engineer Research and Development Center, in Vicksburg, MS. His research focuses primarily on biological control of aquatic invasive plant species and impacts of invasive species on invaded ecosystems. Since 2005, he has been involved with various aspects of biological control development and implementation, from overseas exploration for new agents to rearing, release and monitoring of control agents. He has worked on management of submersed (hydrilla, Eurasian watermilfoil), emergent (alligatorweed, flowering rush) and floating (giant salvinia, water hyacinth, water lettuce, water pennywort) invasive plants. Currently, his focus is on the importance of genetic variation for invader success and management.

