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WATER QUALITY
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Carbon
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Aquifer Recharge
Flood Control
Drinking Water

BIODIVERSITY
Fish and Wildlife
Pollinators
Native Plants

Quantifying Ecosystem Services Derived from Wetlands: The Integrated Landscape Modeling Partnership

Monday March 15th, 2021 at 12:00pm MST

Presenters: Dave Mushet, U.S. Geological Survey,
Northern Prairie Wildlife Research Center

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Presentation Summary:

The Integrated Landscape Modeling (ILM) partnership is an effort by the U.S. Geological Survey and U.S. Department of Agriculture to identify, evaluate, and develop models to quantify services derived from ecosystems, with a focus on wetland ecosystems and conservation effects. The ILM partnership uses the Integrated Valuation of Ecosystem Services and Tradeoffs (InVEST) modeling platform to facilitate regional quantifications of ecosystem services under various scenarios of land-cover change that are representative of differing conservation program and practice implementation scenarios. To date, the ILM InVEST partnership has resulted in capabilities to quantify carbon stores, amphibian habitat, plant-community diversity, pollination services and grassland-bird habitat quality. Initial InVEST modeling has been focused on the Prairie Pothole Region of the United States; future efforts will encompass other regions as data availability and knowledge increase as to how functions affecting ecosystem services differ among regions.

Biography

David (Dave) Mushet is a Research Wildlife Biologist, and Chief of the Climate and Land-use Branch at the Northern Prairie Wildlife Research Center in Jamestown, ND. Dr. Mushet's research is focused principally on prairie-pothole wetland ecosystems of the northern Great Plains and has included topics such as the provisioning of ecosystem services, the development of complex systems models, and the influences of changing environmental drivers (e.g., climate and land-use) on wetland ecosystem processes. In his role as Chief of the Climate and Land-use Branch, Dave supervises several other research scientists working together to meet the science information needs of the Department of the Interior, and other partner agencies and organizations.