I. Software development

SWAT-SIR software developed in collaboration with Dept. of Fisheries and Wildlife, MSU to predict wildlife impact on surface water quality is a pioneering approach capable to assess risks of pathogen breakthrough associated with livestock operations and pathogen transmission by different wildlife species (e.g. deer, feral pigs) under different weather scenarios and management practices. The framework has a potential to predict probability of leafy greens contamination by pathogens transmitted by wildlife, transported with overland flow from upslope pastures or livestock, or applied with irrigation water.

II. Peer-reviewed publications


III. Presentation at National and International meetings


IV. Other presentations


V. Proposals

We are actively looking at EPA, USDA, DOE and NSF programs relevant to this project.