

# Introduction to Watershed Modeling Training

Texas A&M AgriLife Blackland Research and Extension Center • Temple

April 15, 2020

Agenda

**Wednesday, April 15**

**9 a.m. to 5 p.m.**

- 9:00 a.m.      **Introductions, Overview & How Modeling fits into Watershed Planning** ... Lucas Gregory, TWRI  
*Provide participants with an introduction to watershed modeling and models available for use. Participants will gain an understanding of what model is needed for watershed protection planning, how modeling results fit in to 9 Elements, and the resources needed to take next steps.*
- 9:30 a.m.      **Models Overview: Purposes and Limitations** ..... R. Srinivasan, TAMU  
*This presentation will provide a broad overview of purposes and limitations of currently available models including their strengths and weaknesses; validation and calibration. This will include case studies and demonstrations. Handout: EPA Guidelines Decision Matrix*
- 10:30 a.m.      **Break**
- 10:45 a.m.      **Models Overview: Purposes and Limitations** ..... continued
- 12:00 p.m.      **Lunch** (*catered lunch or bring your own*)
- 12:45 p.m.      **Using Simple Tools or Non-Model Tools**..... R. Srinivasan, TAMU  
*This presentation will discuss how to model with limited observations as well as minimum data or analysis needed (LDC, estimator, export coefficient, literature values, GIS land use based).*
- 1:30 p.m.      **Quality Assurance Project Plans (QAPPs)**..... Kelly “Rodi” Rodibaugh, TCEQ  
*Quality Assurance: What, Who, When, Where, Why.....and How? Why do we need quality assurance? What components are required for a Quality Assurance Project Plan? How can a good QA program protect and support project efforts?*
- 2:15 p.m.      **Break**
- 2:30 p.m.      **Factors to Consider when Modeling: Time & Money** ..... R. Srinivasan, TAMU  
*What are the data needs and requirements for models? This presentation will discuss model capabilities; time; money; etc. and the data available for calibrating/validating models.*
- 3:30 p.m.      **HAWQs Model Demonstration** ..... R. Srinivasan, TAMU
- 4:15 – 4:45 p.m.      **Stakeholder Communications and Modeling**.....Nathan Glavy, TWRI  
*Provide examples on the process of bringing stakeholders to the table to understand the model, get consensus approval of inputs and presenting modeling results to engage stakeholders in implementation.*
- 4:45 – 5:00 p.m.      **Wrap Up** .....Nathan Glavy, TWRI

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