



# bacteria fate and transport

bft.tamu.edu

More than 300 water bodies in Texas are impaired because they did not meet bacteria criteria established by the state to protect contact recreation use in freshwater and/or oyster water.

The Fate and Transport of E. coli in Rural Texas Landscapes and Streams project addresses several issues related to bacteria Total Maximum Daily Load (TMDL) development and implementation addressed in a recent state task force report. These issues include identifying, characterizing and monitoring the fate and transport of E. coli in impaired watersheds and streams. The results from this project will help in developing scientifically sound TMDLs.

## **Objectives**

- Identify, characterize and quantify *E. coli* loads from various sources in an impaired watershed
- Monitor survival, growth, re-growth and die-off of *E. coli* under varying environmental conditions
- Monitor re-suspension of E. coli in streams
- Develop and disseminate education materials that will be used to educate the public on bacterial issues in the state

## **Accomplishments**

 Presented education programs on the "Occurrence and Fate of E. coli from Cattle and Wildlife Under Different Environmental Conditions"

#### **Collaborators**

- Texas Water Resources Institute
- Texas AgriLife Research
- Texas AgriLife Extension Service
- USDA Agricultural Research Service
- Texas Parks and Wildlife Department
- Brazos River Authority
- Brazos County Soil & Water Conservation District

#### **Funding Agencies**

- Texas State Soil & Water Conservation Board
- U.S. Environmental Protection Agency















