Potential new tool for assessing progress toward our nutrient reduction goals

Weighted Regressions on Time, Discharge, and Season (WRTDS) model

> Lori Sprague U.S. Geological Survey National Water Quality Program

≊USGS









Pros

- Flow normalized trend line is less influenced by shortterm streamflow variations than the 5-year moving average
 - May provide a clearer representation of the effects of human changes in the watershed
- Uncertainty estimates are available



Cons

- Method is not as straightforward as the 5-year moving average
- Method uses a windowed regression
 - Estimates for a given year are not final until several years have passed
 - Sometimes provisional estimates will change; sometimes they won't



