Engaging Monitoring Programs

In 303(d) Vision Prioritization Discussions

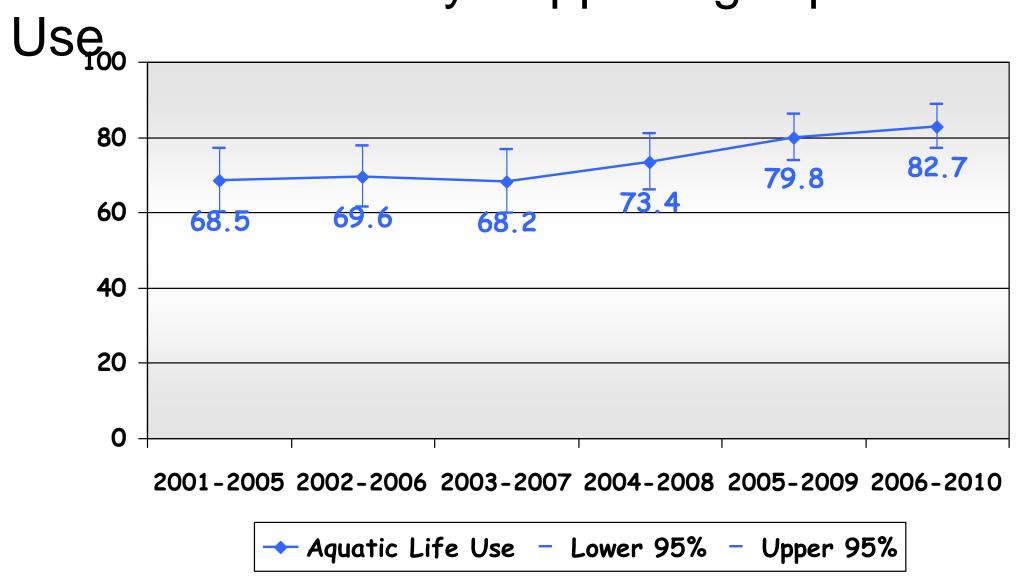
State Monitoring Strategies

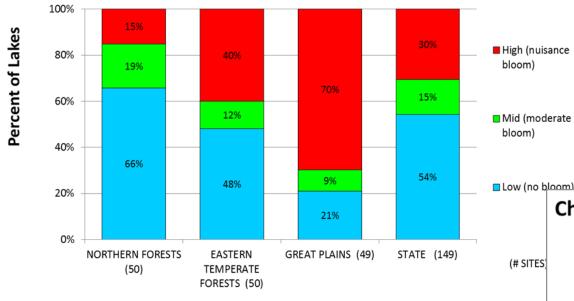
- Objectives
- Design
- Indicators
- Field and lab SOPs, QA
- Data Management
- Analysis and interpretation
- Reporting
- Gaps
- Feedback

Monitoring Design Components

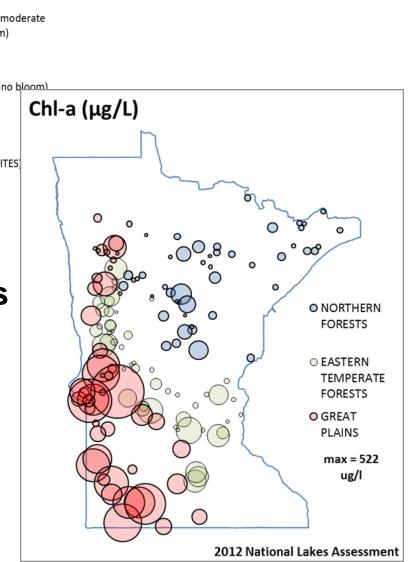
- Fixed site network trends at individual stations over time, frequently at pour point of a HUC or tributary
- Targeted site selection examine condition at areas of concern/interest, frequently upstream/downstream of discharge or BMP
- Statistical survey design unbiased estimates of resource condition
 - Extent of waters across the population that support aquatic life, recreation
 - Distribution of key stressors
- Rotating basin planning area and implementation schedule for all or some design components
- Others...

Using State-scale Survey to Track Trends SC Streams – Fully Supporting Aquatic Life



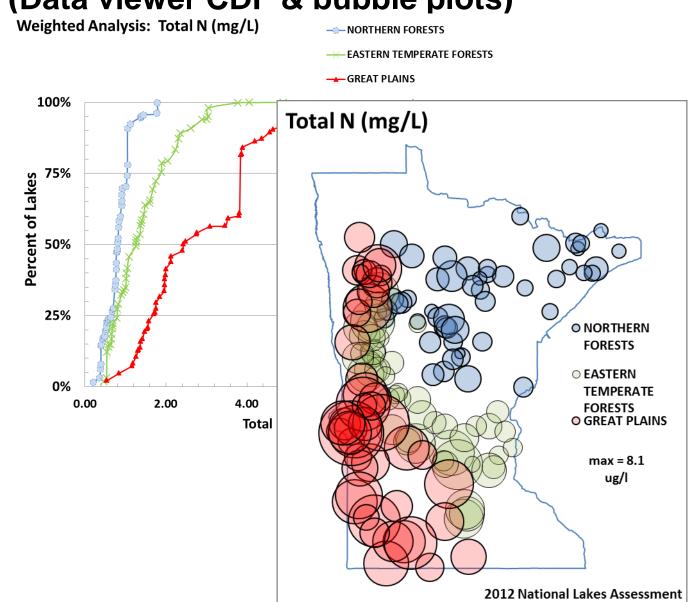


Extent & regional patterns in frequency of nuisance algal blooms (Chl-a >20 ppb)
[Data viewer based on weighted samples]

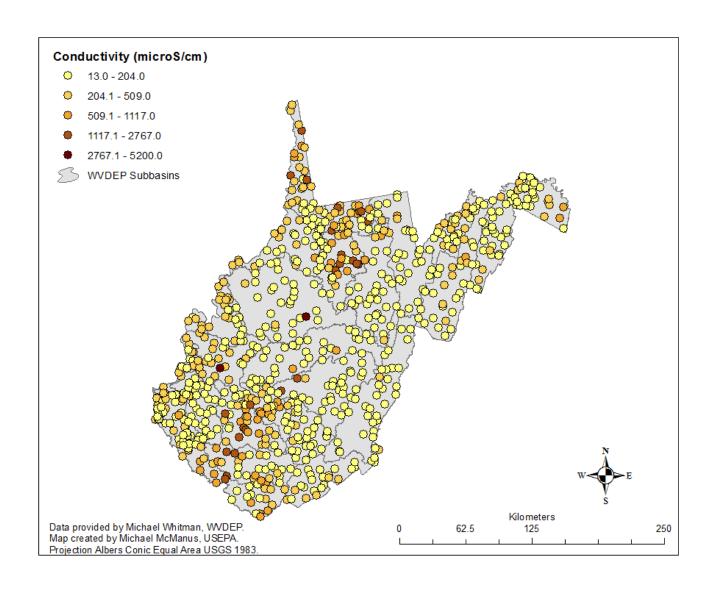


What are the regional patterns in TN?

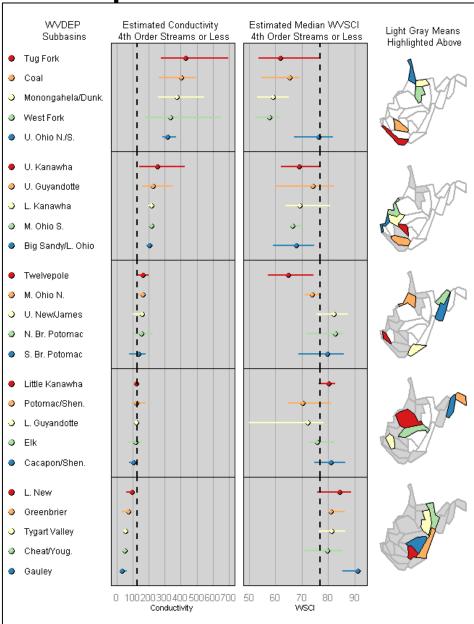
(Data viewer CDF & bubble plots)



WVDEP Stream Survey



Example of Reference Line



Upper Red / Washita Good 37% Good 50% Fair Fair 41% **Macroinvertebrate Condition Fish Condition** (% of Total Stream Length) (% of Total Stream Length)

Upper Red/Washita

