

UMRBA Background

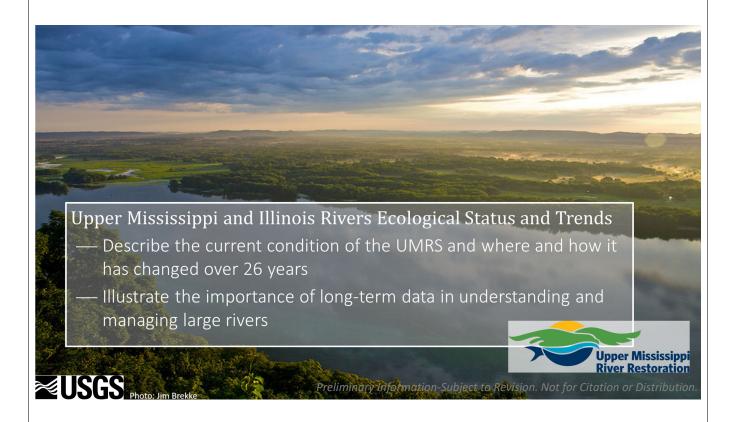
- Governor-level interstate organization for multi-purpose management
- Governor-designated interstate WQ entity
- Facilitate dialogue, cooperative action, and coordination
 - Interstate forum
 - Cooperative planning, coordinated management
 - Information exchange
 - Regional positions, advocacy on states' behalf











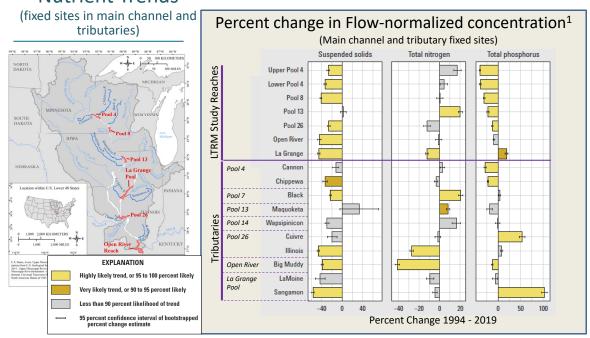


Preliminary Information-Subject to Revision. Not for Citation or Distribution

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Nutrient Trends

Preliminary Information-Subject to Revision. Not for Citation or Distribution.



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¹Calculated using Weighted Regressions on Time Discharge and Season (Hirsch et al. 2010; Hirsch et al. 2015)

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Stratified Random ampling Across Habitats

Long-term ecological changes in water clarity, vegetation, and fish in the Upper Impounded

Reach of the UMRS

- Increase in submersed vegetation
- Period of low discharge (2006,7,9)
- Small decline in suspended solids (SS) inputs
- Substantial increase in water clarity (decrease in turbidity)
- Decline in Common Carp
- Changes in fish community composition



