

Decision-support for Ecological Flow Alterations in the Great Lakes

and beyond...



Jim McKenna (USGS GLSC)

Colleagues: Paul Seelbach (USGS GLSC) and Howard Reeves (USGS MWSC)

<u>Assistance</u>: M. Slattery, C. Luukkonen, and D. Holtschlag, and others helped with model development, data management, and mapping <u>Data Providers</u>: fishery management and conservation agencies and geology groups.

The Question: How to get the biggest bang for the buck in resource restoration or protection?

• Fish population health depends on Lotic flow: No water, No fish – but what is the best flow for fish?





Opportunity to provide decision-support



How do fish populations relate to different flow rates? The Cumulative Abundance Curve



Brook Trout Abundance and Flow by Lotic System Type

Regionwide Flow Status: Brook Trout

Decision Support Program: the App

Expanding Nationally

Decision Support

