Our Missouri Waters – Meramec River



Agenda

- 1. Welcome and Introductions
- 2. Overview of Projects Impacting the Meramec
- 3. Clean Water: Stormwater & Wastewater
- 4. Soil & Water Conservation District Programs
- 5. Strategies for Road Maintenance
- 6. Breakout Sessions by Topic

Meramec River Issues

- Recreational Use (& Abuse)
- Road Grading Practices
- Erosion on River & Tributaries
- Stormwater Runoff from Development
- Low Water Crossings on Public Roads
- Contamination from Mining Operations
- Gravel & Sedimentation
- Funding



Meramec River Watershed: Community Partnership Project

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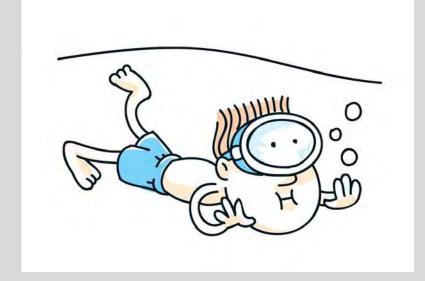


- **Mission:** The mission of the Missouri Department of Natural Resources is to protect our air, land and water; preserve our unique natural and historic places; and provide recreational and learning opportunities for everyone.
- **Vision for Missouri**: The Missouri Department of Natural Resources envisions a Missouri where people live and work in harmony with our natural and cultural resources, make decisions that result in a quality environment, and prosper today and in the future.



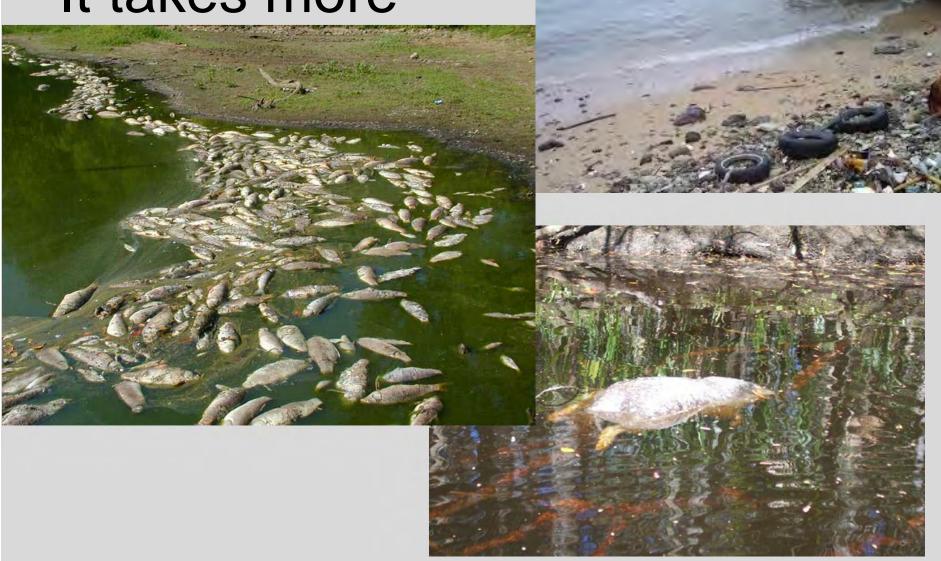








It takes more







Our Missouri Waters

A watershed based approach to...

- Better integrate and target our resources and programs
- Seek help from local citizens
- Maximize overall environmental benefit for water resources

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to protect our air, land and water; preserve our unique natural and historic places; and provide recreational and learning opportunities for everyone.





What is a Watershed?

- An area of land where the runoff from rain and snow drain to a particular stream
- Healthy watersheds provide:
 - Plentiful drinking water
 - Fish and wildlife habitat
 - water for
 - Irrigation,
 - industry or
 - recreation





Healthy Watershed





What is Watershed Management?

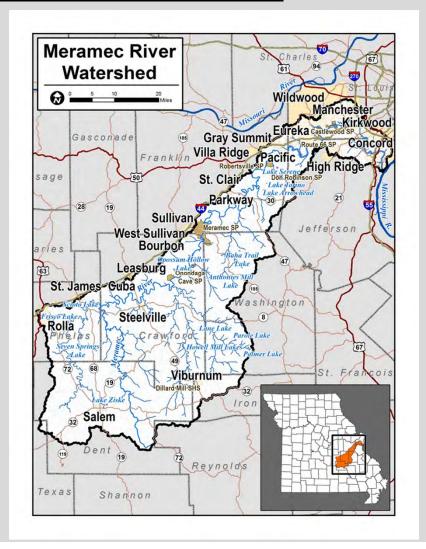
- Romans practiced watershed management
- Early basin management in the United States included
 - Diversion
 - Irrigation and
 - Flood control





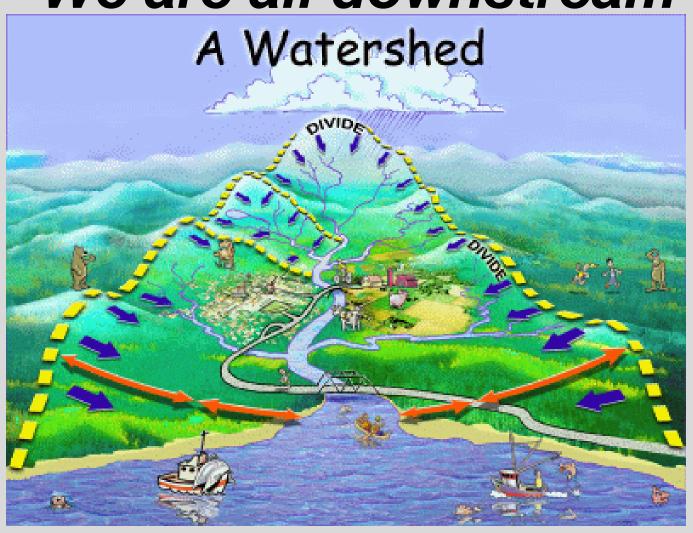
Why focus at the watershed level?

- Provides the basis for coordinating water resource activities over a five year time-frame
- Allows local watershed residents to know in advance when certain coordination activities occur
- Provides an opportunity to utilize and leverage various resources more effectively and efficiently



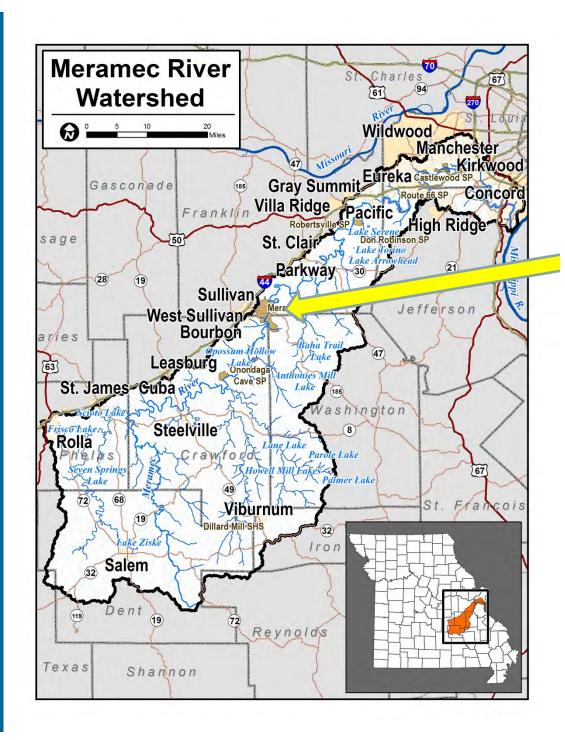


We are all downstream



Meramec River Watershed

- 2,149 miles²
- One of the longest free-flowing waterways in Missouri
- Portions of 10 counties
- 90% Forest, Pasture and cropland; less than 10% Urban







Project Goals:

- Local understanding of water resources
- Build on local leadership for watershed priorities
- Build on local partnerships to find solutions







How do we get there?

- Meramec River meetings
 - Information sharing
 - Learn about natural resources priorities
 - Identify concerns you want to address
- Input from local communities about interests and priorities for the Meramec River and its watershed
 - Move goals forward & work toward solutions
- Healthy Watershed Plan





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- Open House meetings
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Healthy Watershed Plan: Framework

- Background information on the watershed
- Local Comments/Concerns
- Priorities from local watershed meetings
- Next Steps recommended by local stakeholders





What are the benefits?

- Local resident's shared vision for the watershed
- Provides guidance for future financial and technical support and programs
- Discover opportunities for partnerships
- Protect our local waters

Our Missouri Waters

http://dnr.mo.gov/omw/





traditionally blessed with abundant and diverse water resources like few other states in the nation. The quality of life for each Missourian can be closely tied to the health of our state's natural resources. Ensuring we are able to enjoy our Missouri waters today as well as ensure the same for future generations is the essence of the Missouri Department of Natural Resources' mission.

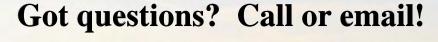
Creating a rich legacy for our state's waters can be a daunting task, which is why we simply can't complete this alone. Missouri's waters belong to all of us. The denartment's Our Missouri Waters effort bring

Learn about Watersheds
Focus Watersheds
State Water Planning
Water Quality Assessment









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Urban Waters Federal Partnership New Life for the Meramec and Big Rivers

Urban Waters Ambassador: Matt Cosby





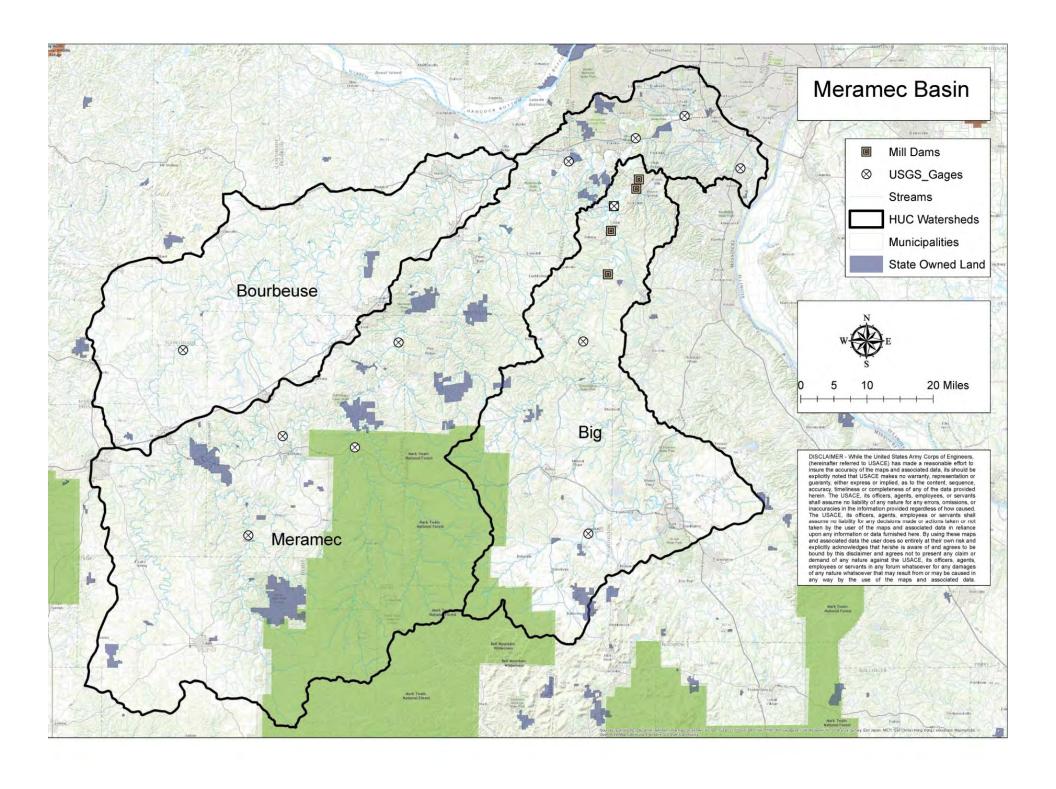


Federal Initiatives in the Meramec

- Urban Waters
- Corps of Engineers Meramec Project
- Environmental Protection Agency (EPA)
- Natural Resource Damage Assessment Funds
- Forest Service







Potential Partners





























The 27 NGOs who have pledged support are:

- • Alliance for Community Trees
- · · American Forests
- · · American Planning Association
- • American Rivers
- • American Society of Landscape Architects
- • Amigos de los Rios
- • Arbor Day Foundation

- • Arkansas Urban Forestry Council
- · · City Parks Alliance
- · · EarthForce
- • Groundwork USA
- • Izaak Walton League
- • National Association of Clean Water Agencies
- National Recreation and Park Association
- • National Wildlife Federation
- • River Network
- • SavATree
- • Society of Municipal Arborists

- • The Chesapeake Conservancy
- · The Conservation Fund
- • The Intertwine Alliance
- • The Nature Conservancy
- • The Sierra Club
- • The Trust for Public Land
- • Tree Care Industry Association
- • Wilderness Inquiry





Urban Waters Federal Partnership Principals

Urban Waters Ambassador Position

Accelerate and Coordinate On the Ground Projects

Increase Water Quality

Increase Public Health

Restore the Ecosystem

Increase Community
Outreach

Reconnecting Individuals with THEIR Waters





Corps of Engineers Meramec Project

- Corps Meramec Ecosystem Restoration
 - **► MDNR**
 - **►**USEPA
- Ecosystem Restoration
 - ► Bed and Bank Instabilities
 - ► Low Water Crossings
 - ► Ecosystem "Lift"





EPA

- Superfund Sites
 - ► Jefferson, St. Francois, and Washington Counties
 - Residential Yards
 - In-stream on Big River and Tributaries
- Treatability Studies
 - ► Hired Corps to assist with in-stream





NRDA

- Trustees (MDNR, US Fish and Wildlife Service, Forest Service)
 - ▶ Determine Use of Funds
 - ► Mitigate damage to natural resources
- Up Coming Meeting
 - ► October 13th Meeting in Park Hills
 - ► http://dnr.mo.gov/env/hwp/sfund/nrda.htm





Success Stories!





Kiefer Creek and UW

- Helping to develop a partnership that is creating a Nine Element Watershed Plan
- Working with The Nature Conservancy to analyze and prioritize projects/measure



within the watershed to improve water quality



BUILDING STRONG®









Contact Information

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