

The Fox River

You paddle it.
You bike it.
You fish it.
You enjoy it.

WE protect it.

Our outreach educators lead 5,000 students into the stream every year.



Join us and become a watershed watchdog. FriendsoftheFoxRiver.org

Volunteerism

- Community Creatures
- Helping = Dopimene
- No: Resume, Interview, Firing, Pay
- Genetic
- Gray Eagles
- Cultural
- Givers vs Takers
- Essential for many initiatives



Our volunteers removed boatloads of trash in 2014.

We keep fixin' the Fox.

Learn how you can help.

Join • Volunteer • Support

friendsofthefoxriver.org







Protect, Preserve, Restore

Fox River Watershed's Resources

Connecting People to Nature

Education, Recreation, Restoration, Advocacy



What We Do

- Create a Watershed of Caretakers
- ·Stream Monitoring Network
- Fox Rescue Cleanups
- River Habitat Improvement
- Research Fox River Study Group
- Water Quality Protection Initiatives

How Can We Help Preserve and Protect the Fox River Watershed's Diversity now?

Get
Involved!



Become A Water Quality Steward



Join Fox Rescue Cleanups









Participate in River Habitat Restoration

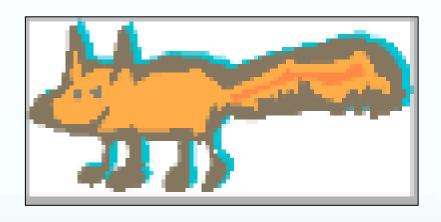




Recreation



The Fox River Watershed Monitoring Network



- Environmental Education for Action
- Providing Data for Decisions

Citizen Science

- Water Quality Monitoring
 - 350 Groups
 - 20 Volunteer Service Providers
 - 1350 Efforts
 - Total in the US 1750
- Many other initiatives
 - Flora
 - Fuana

Monitoring History

- 60's Izaak Walton League visual
- mid 70's Maryland 3 taxa, SOS
- '83 Ohio & IWL
- 90's 45 states; FOFR & Illinois Rivers Project
- '94 CTAP
- · '95 IL River Watch
- · EcoWatch prairie, forests, wetlands & more
- "99 FRWMN
 - '05 EcoWatch cut
 - '09 FRWMN Expansion

Why Watch a Stream?

- · To check its health
- To identify changes
- in conditions (trends)
- To collect data for
- decision making
- To prepare for action



So, what

exactly

are

we

looking

for

down

here?



Why Watch a River? *The Frog Parable*

Drop into Boiling Water - It will jump out!

Boing!!



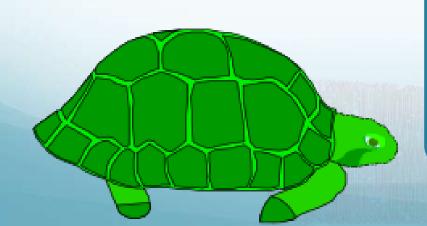
Put in cool water and gradually heat it....

Boiled frog legs!!



What is River Monitoring? SAMPLING INDICATORS

- *CHEMICAL Temp., pH, DO
- *PHYSICAL Habitat, Flow
- *BIOLOGICAL BMI's



Hey, is this a healthy place?



Biological Monitoring



Or

What Stream Life Tells Us About Water Quality













Stonefly

- Nymph:
- Two pair claws on each of three jointed legs
- Two pair of developing wing pads present on thorax
- Two distinct "tails" called cerci, which are actually sensory feelers
- Color: Tan, brown, gold, or black
- Length: varies, up to 1 inch

Very Intolerant

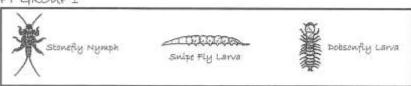
Moderatly Intolerant

Tolerant

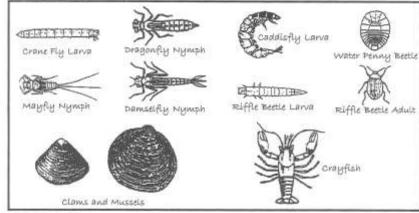
Very Tolerant

Macroinvertebrate Picture Key

PT GROUP 1



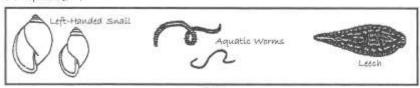
PT GROUP 2



PT GROUP 3



PT GROUP 4



S-1

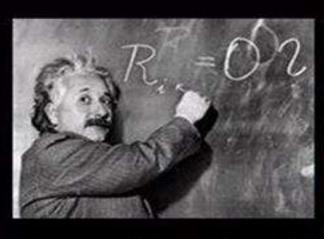
Friends of the Fox River Biological Monitoring Data Sheet

SITE INFORMATION			
Date // Time:_ Collector(s) Name: River or Tributary Name: Nearest City/Town:		Organization Name:Latitude/Longitude:	
Riffle/Kick Seine	80	O HABITATS)	USED Sediment/D-NetLeaf Packs
		TEBRATE INDEX	
PT GROUP 1 Stonelly Nymph Snipe Fly Dobsontly Larva	Dragorifly Nymph Mayfly Nymph Caddisfly Larva Crane Fly Larva Riffle Beetle Water Penny Clams/Mussels	Black Fly Larvae Scud Sowbug	PT GROUP 4 Left-Handed Shal Aquatic Worms Leech
# of Taxa	# of Taxa	# of Taxa	#of Taxa
12,20,000,000,000,000,000,000,000	X 3 CROINVERTEBRATES mber Present) Chinese Rus Myslery Snais Cray	WATER 33 or more	X 1 TAXA RATING R QUALITY INDEX VALUE = Explored = Good = Fair

TEACH ER



Vhat my friends think I do



What my Mom thinks I do



What society thinks I do

Intervention

ESL



BIN WILLIAMS MATT DAMON



What kids think I do

What I think I do

What I really do

Educational Continuum

- *Awareness
- * Understanding
- * Appreciation
- * Action

Creating a Watershed of Caretakers

It's fun!

It's education at its finest!



It's necessary action for an endangered river!

Student Slavery vs Stewardship

- Not more to do
- A vehicle to do it more effectively
- Cross curricular
- Engaging
- A Sense of Place
- Community Connection

Wanted: Watershed Watchdogs



Schools

Citizens and Families

Scouts

Home Schools

Organizations

Become a Watershed Watchdog

- Wagging.
 - Identify whats not normal. Sniff, listen & look.
- Bark
 - Attract attention. Investigate.
- Snarl
 - if you are not respected. IEPA.
- Bite
 - if you must protect. Legal Action.

Monitoring Network Tools

- Train the Trainers
- Outreach Educators
- Monitoring Guide
- Equipment Loans
- Partner Organizations
- Sites of Concern
- · Fox, River Guardian Curriculum
- Enrichment/Recognition
 - Train, Outfit, and Support Monitors



How it Worked

- Train the Trainers
- Equipment Loan Stations
- Training Workshops
- \$\$\$upport Bus, equipment
- Non-supported field experiences
- Enrichment/Recognition
- Partners ROE, KCFPD, Agencies, Priends

Student Conference



Monitor Appreciation Dinner





Join Students and Professionals in the.....

Fox Map

Project

GPS Collecting & GIS Mapping Data Linking Land Use to Water Quality



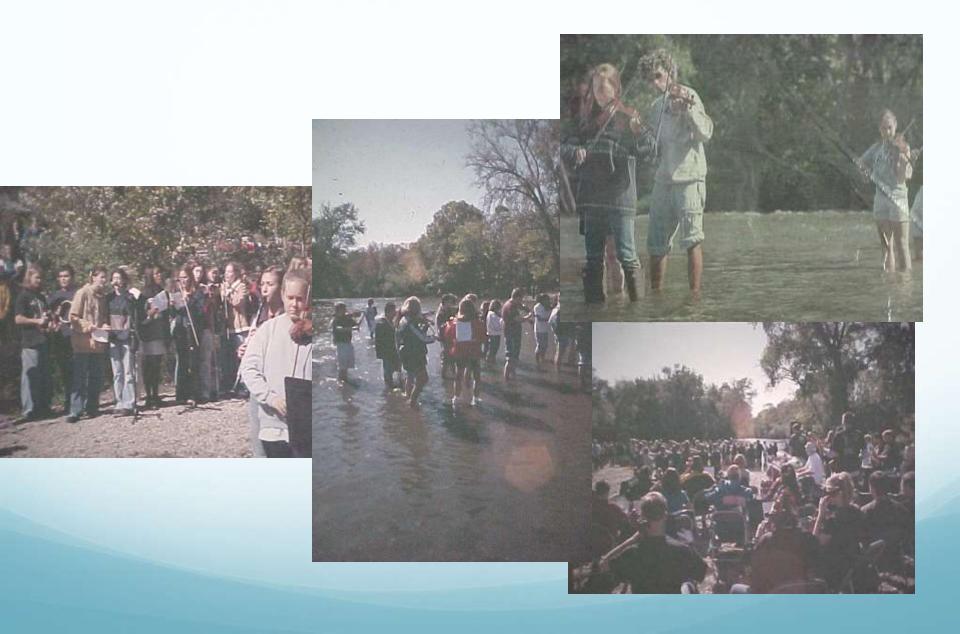
To protect the

Fox River Watershed

Monitor with Your Mother Mothers Day



Concert in the Creek



Where it is Now

- 319 Stimulus
- Outreach Educator Retired Teachers
- Curriculum incorporation
- Student support
 - Peer teaching
 - Membership
- Elgin Contract
- NPDES/MS4 Satisfaction contracts

Education ----> Action

- * Outreach Educator ---> Teachers
- * Teachers ----> Students
- * Peer Teachers -----> Students
- * Students ----> Data ---> Trend Analysis----> Action
- * Students ----> Literacy ----> Educators
- * Students ----> Stewards ----> Engaged Citizenry

Funding the Experience (Bus)

- LEAP Grant Steve Kolsto
- IDNR Biodiversity Grant
- Partner \$ponsor\$ Municipality,
 business
- Talented Teachers







- Train
- Motivate
- Immerse



Arrival...



Preparing for "The Work"



In the water...







Chemistry...













A Great Day...



Measurable Success!



Here's a unique opportunity for your organization to sponsor local school students as they learn how to be stewards of our very own Fox River Watershed.

Sponsor at \$100 to \$5000 & get your name on our t-shirts for kids in the stream.

T-Shirt Sponsors





"Never doubt that a small group of thoughtful, committed citizens can change the world. Indeed, it's the only thing that ever has."

-Margaret Meade

