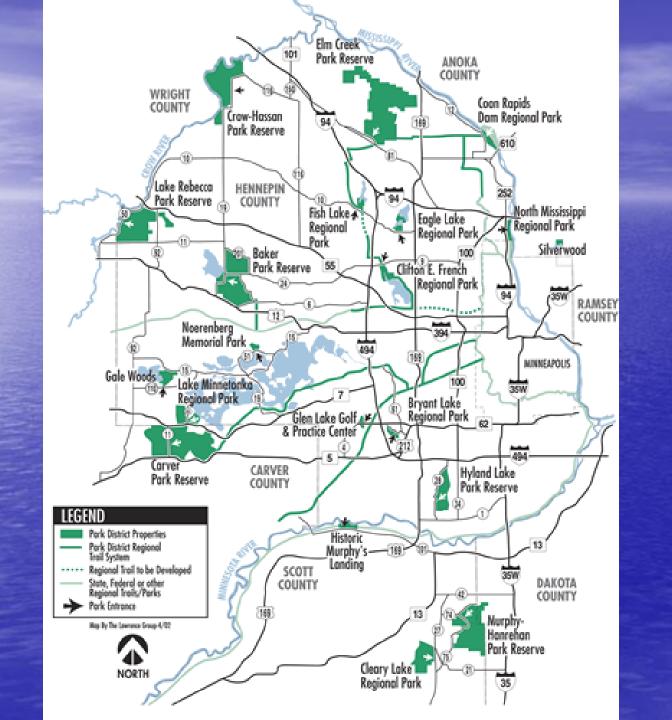
A Tale of Many Cities

Working with City Councils to Protect and Improve Water Quality



Three Rivers Park District

- Manage 27,000 Acres of Land
- 20 Lakes, 7 streams, Many wetlands
- Approximately 6 million visitors/year
- Co-manage with 35 municipalities, 10 watershed management organizations, 5 counties
- No regulatory authority

Characteristics of Success

- Good Data
- Organize constituent base
- Educate, Educate, Educate
- Identify Key players
- Cultivate personal relationships
- Develop personal credibility
- Show examples of benefit
- Be positive
- Be persistent

Good Data

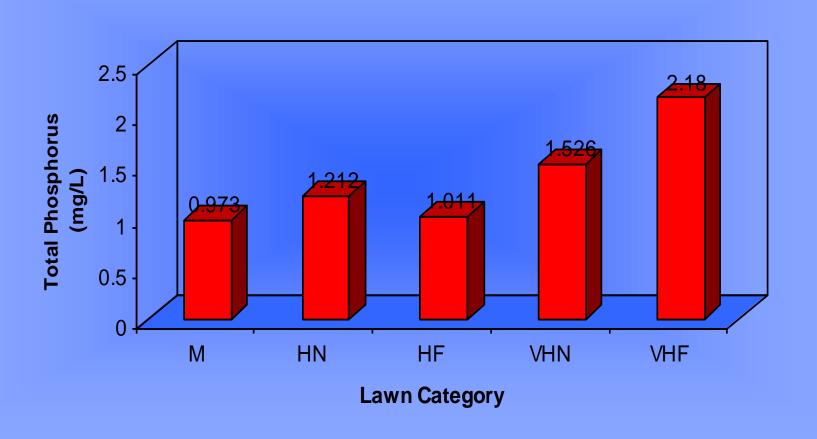
- Most critical component of relationship
- Identify the "real" problem
- Have rigorous QA/QC program
- Must be able to withstand attacks
- Need to be statistically valid even citizen monitoring programs



Good Data

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Average Phosphorus Levels in Lawn Runoff



P-Free Fertilizer Reduction Potential

	TP 0-2cm	> <u>2cm</u>	SRP 0-2cm	<u>>2cm</u>
Mean Event Export (Pused) (g/ha/cm)	33.2 ± 15.9	23.1 ± 3.2	11.3 ± 7.4	15.2 ± 2.8
Mean Event Export (P- free) (g/ha/cm)	35.9 ± 7.9	18.7 ± 2.3	12.5 ± 3.8	7.9 ±1.9
Mean Event Difference	0	5.2 ± 3.8	0	8.1 ± 3.5

% Annual Reduction

12 -16 %

24 – 34 %

Good Data

- Science
- Not Values
- Global climate change opposition to data was and is value driven

Nutrient Production by Livestock in the Lake Independence Watershed

Manure (wet)	19.2 Million Lbs				
Phosphorus	16,746 Lbs				
Nitrogen	85,186 lbs				





TMDL Decision Process

- Science
 - -TMDL Number = 1091
 - Sources of TP loading
 - Monitoring and modeling data
 - BMP effectiveness

TMDL Decision Process

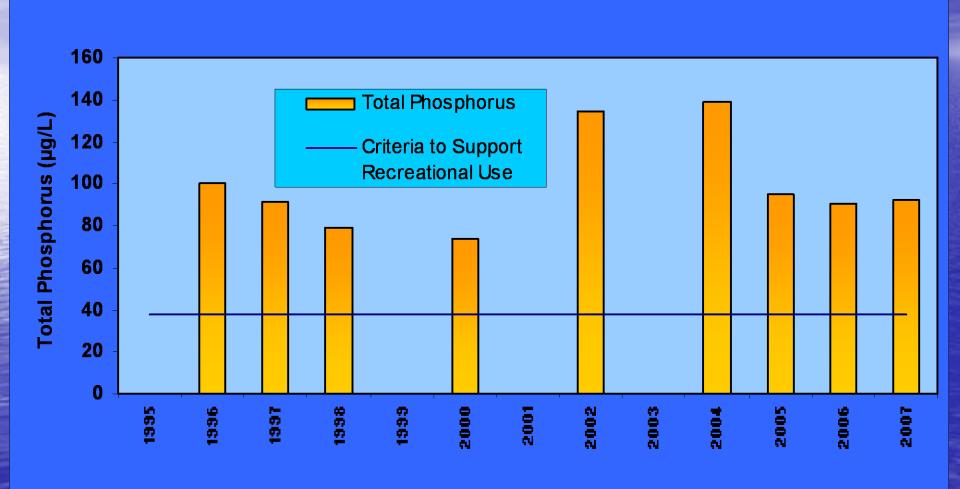
Values

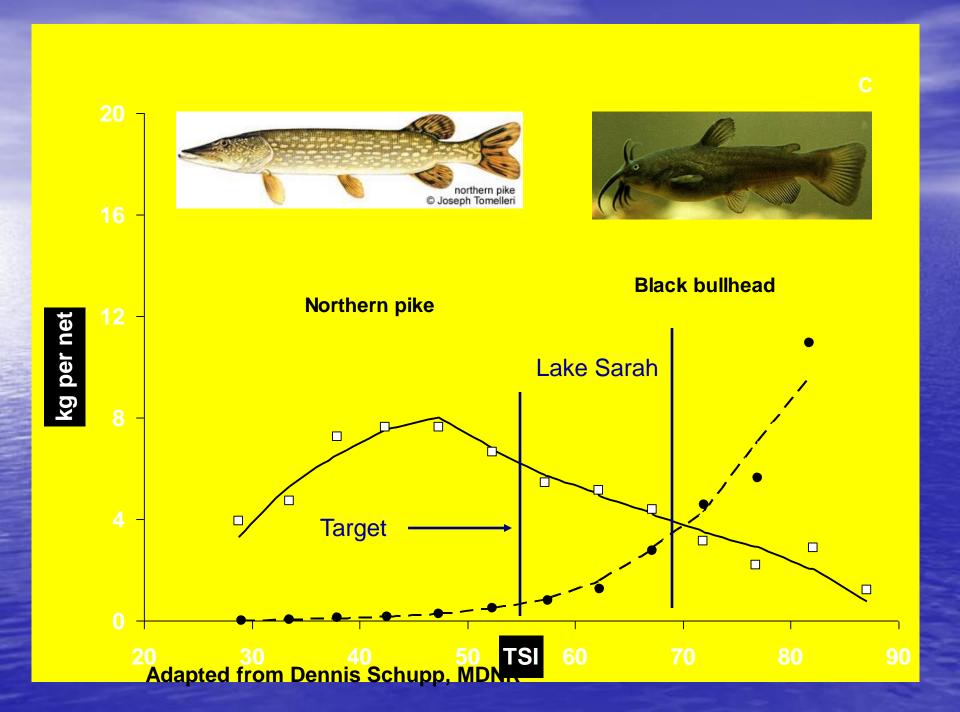
- How much TP reduction from each city
- BMP selection
- Source reduction or stormwater treatment
- Regulation or voluntary cooperation
- Cost based or social acceptability

Educate, Educate, Educate

- Knowledgeable Council more likely to take action
- Difficult because of turnover Repeat constantly
- Must understand problems and possible solutions
- Must get councils to distinguish between data and values
- Must present data in understandable format









Organize Constituent Base

- Property owners, homeowners, business community, fishing community, recreational users
- Voters count
- Need them to attend meetings, lots of meetings
- Articulate spokesperson person needs to be rational

Identify Key Players

- Council member preferred
- Municipal staff
- Consultant
- Need to be advocate for water quality
- Need to be or become knowledgeable
- Need to have credibility with council

Cultivate Personal Relationships

- Be professional
- Provide Key Players with the tools to help your cause
- Take some of the heat (Be the bad guy)
- Do not need to socialize, but need to respect each other
- Provide them with assistance in other areas

Develop Credibility

- Be professional
- Be honest
- Don't promise what you cannot deliver
- Enlist outside help when appropriate An expert is some who lives more than 40 miles away
- HAVE GOOD DATA
- Be Prepared!!!!!



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Show Examples of Benefits

- Reduced algae blooms
- Better fishing
- Tie to cost of inaction
- Tie to cost of alternatives

STOP CLOSED



Based on recent monitoring for E. coli bacteria Serious risk of illness may be present

THIS AREA IS CLOSED TO SWIMMING

FOR MORE INFORMATION:

1-800-441-4636 ext. 1460

www.wibeaches.us



Be Positive

- Need to sell water quality management programs
- Difference between scientific uncertainty and management uncertainty – BMP implementation will improve conditions
- If you always do what you have always done, you will always get what you have always got

Be Persistent

- Impacts occur over decades, improvements will need just as long
- If is the right thing, keep asking
- Generate more data if necessary
- Enlist more support voters

