

# WPWA MONITORING DATA SUMMARY

Prepared for Watershed Counts

November 21, 2011

## ARE WE “DATA RICH AND INFORMATION POOR?”

1. Watershed Watch Data from 1988 to present
  - a. TN (nitrates and ammonia)
  - b. TP and DP
  - c. Chloride
  - d. pH
  - e. Alkalinity
  - f. DO
  - g. Secchi
  - h. fecal and ecoli/ entroccoci
  - i. Chlorophyll
  - j. Ca, Mg, Na
  - k. Temp
2. Currently
  - a. 20 rivers and streams
  - b. 11 ponds
3. Historical total
  - a. 109 rivers and stream sites
  - b. 25 ponds
4. Fish assemblages 2002-2010
  - a. 25 streams at 35 sites
5. Macro invertebrate sampling
  - a. 2004, 2005, 2007
  - b. 8 streams, 20 sites
  - c. 2011 9 sites, 5 streams, 8 sites
6. AIS surveys/Purple loosestrife
  - a. surveys for purple loosestrife 2008, 2011
  - b. biological control 2005-2008
7. Stream Continuity data (NRCS program)/ Road Crossings
8. Stream flow measurements
  - a. 1999 by Watershed Watch
  - b. 2000-2002 by WPWA interns
9. Stream Temperature Profiles
  - a. 2004-2009
  - b. 10 streams, 40 sites
10. Other parameters to consider:
  - a. Impervious surface data
  - b. Road densities
  - c. Land use data set
  - d. State data from Rotating Basins studies

- e. hardness
- f. conductivity
- g. BOD
- h. TSS/ volatile suspended
- i. Na
- j. Cadmium dissolved
- k. Copper, dissolved
- l. iron
- m. lead, dissolved
- n. Phosphate, ortho
- o. Turbidity
- p. flow

11. Indicators:

- a. Recreational contact
- b. Wildlife habitat
- c. Fishing (consumable)

12. Questions:

- a. How does bacteria translate into consumability of fish?
- b. Is macro data enough for wildlife habitat?
- c. Can we use state's data – macros
- d. Use water quality based on Hilsenhoff Water Quality Index?
- e. Where do trends come in?
- f. How can people drill down and get more information if they want or need it?