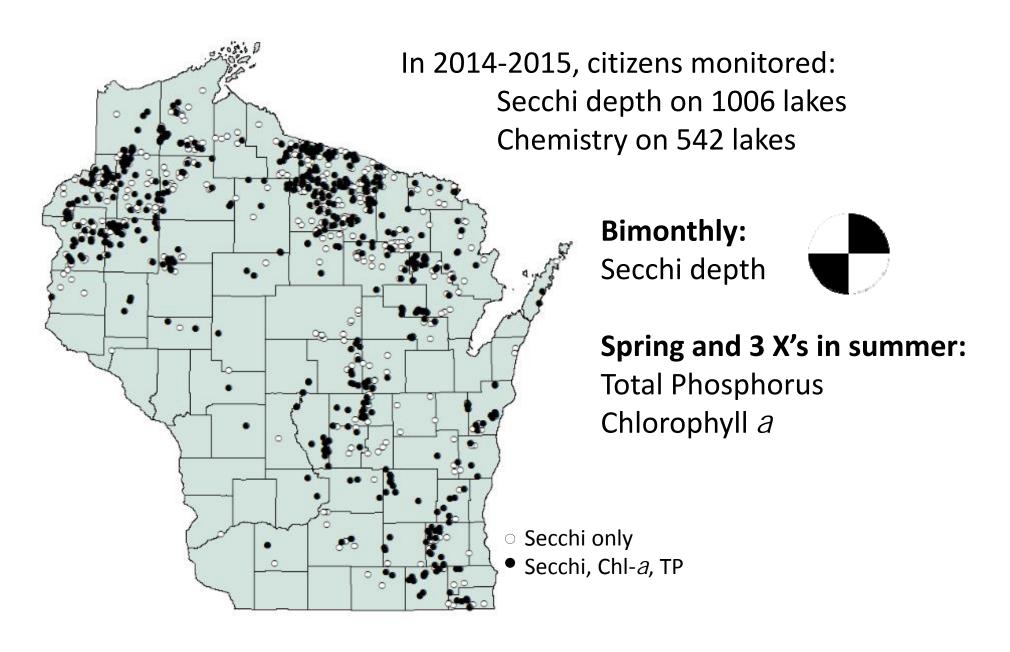


Citizen Lake Monitoring Network

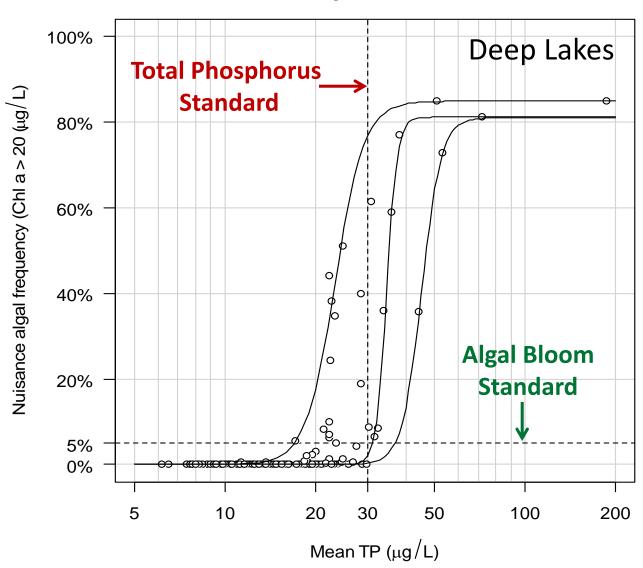


Policy

Developing nutrient standards

- Assessment
 How healthy are Wisconsin lakes?
- Management
 How should we manage Wisconsin lakes?
- Research
 What can we learn about Wisconsin lakes?

Recreational Lake Water Quality Standards



Policy

Developing nutrient standards

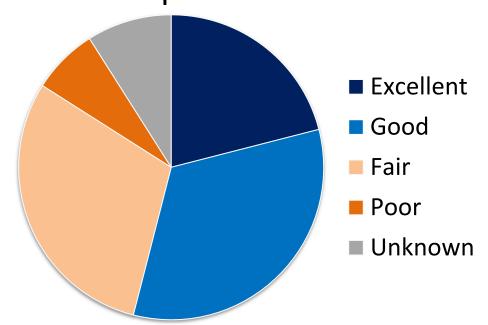
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Clean Water Act Goals



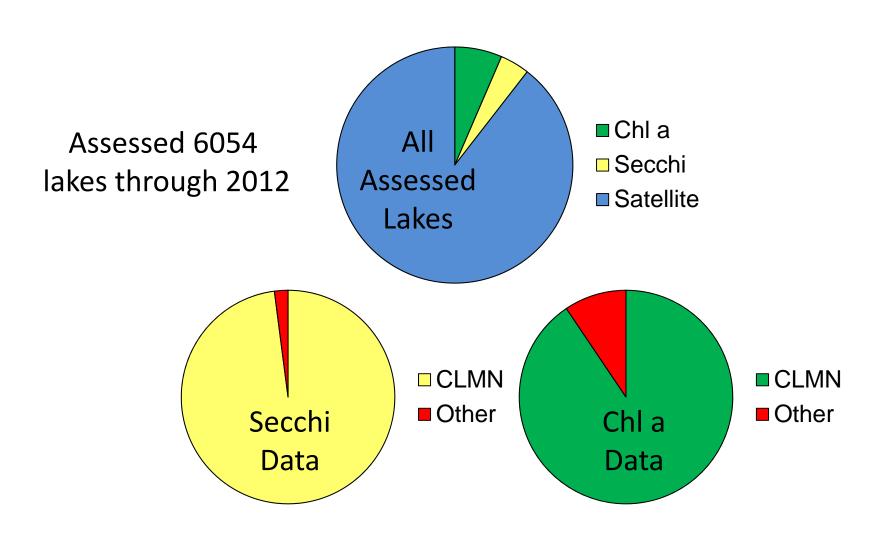
How healthy are Wisconsin lakes? Water Quality Report to Congress

Water Quality According to Lake Trophic Status



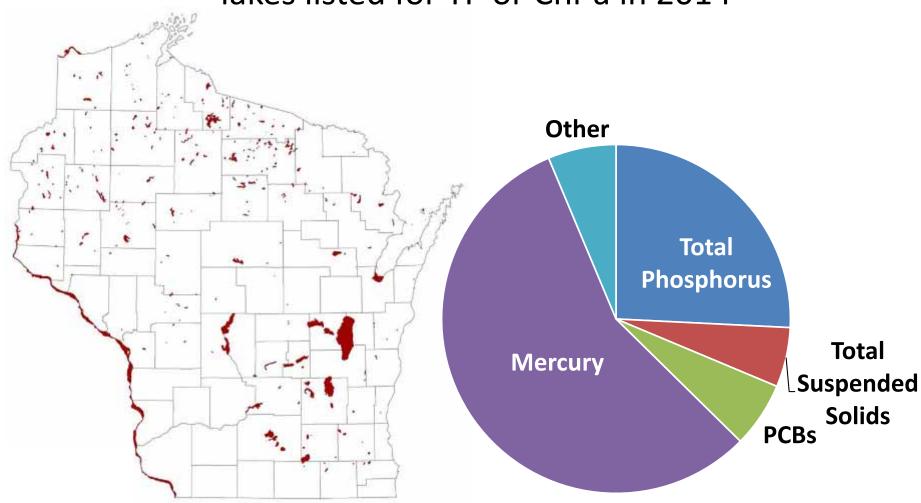
4506 lakes assessed with data through 2014

Citizens Provided Most of the Secchi and Chlorophyll Data



Impaired Waters List

Volunteers monitored 70 of 87 lakes listed for TP or Chl-a in 2014



Satellite Secchi Depth

Trophic

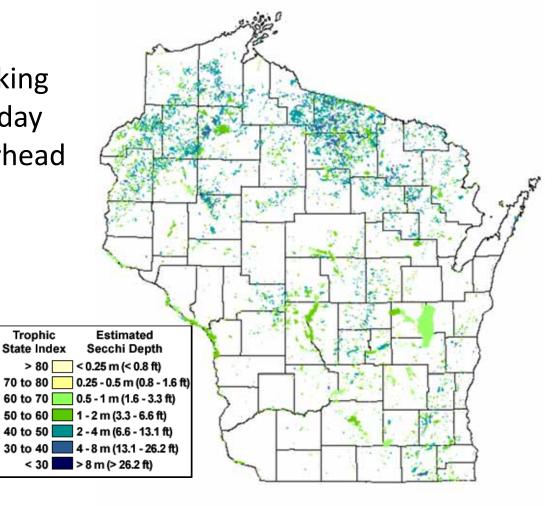
Goal:

Use satellite data to assess lake water quality

Citizen Role:

Calibrate the models by taking Secchi depth on the same day as the satellite passes overhead





Refining Satellite Tools

Is water clarity low because the lake is green with algae or is the lake naturally stained?





Thursday 2:05 – Daniela Gurlin & Steve Greb

Policy

Developing nutrient standards

Assessment

How healthy are Wisconsin lakes?

Management

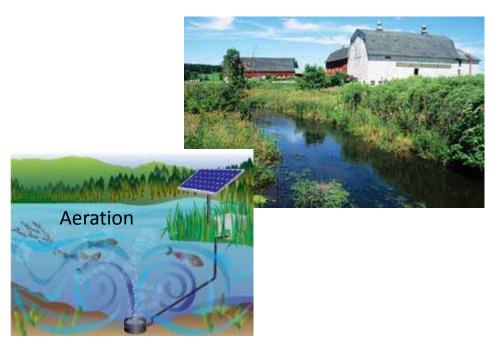
How should we manage Wisconsin lakes?

Research

What can we learn about Wisconsin lakes?

How Citizen Data Aids Management

Nutrients



Invasive Species



Thursday 11:00 – citizen panel on water quality
Friday 8:00 – citizen panel on Invasive Species
Friday 10:30 – Jo Latimore, MI volunteer coordinator

Policy

Developing nutrient standards

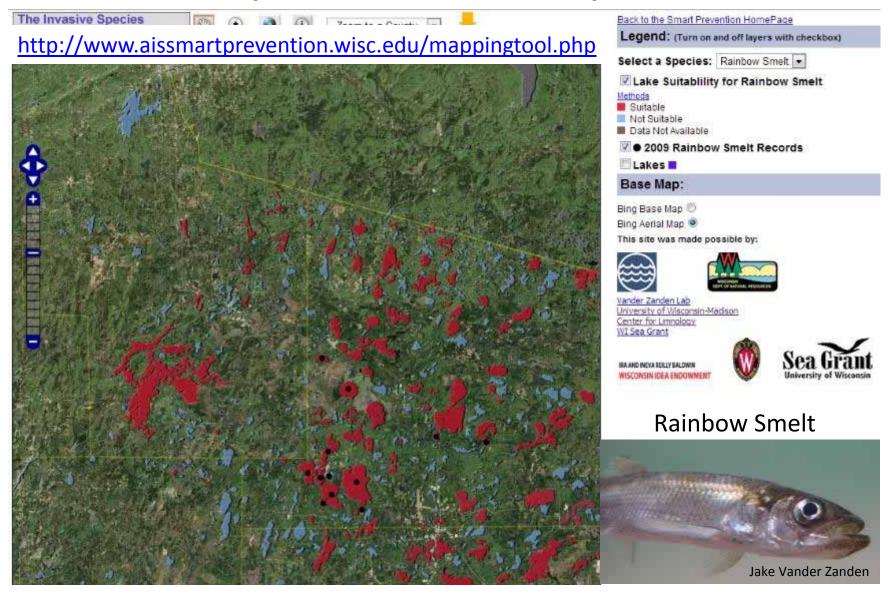
- Assessment
 - How healthy are Wisconsin lakes?
- Management

How should we manage Wisconsin lakes?

Research

What can we learn about Wisconsin lakes?

Lake Suitability for Aquatic Invasive Species



Changes in water clarity after zebra mussel invasion



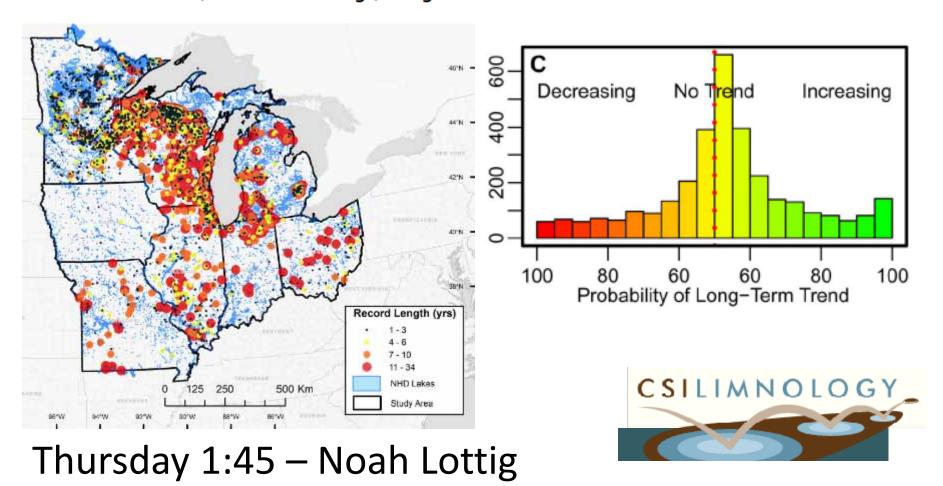


Marianne Geisler – Master's Student at University of Manitoba



Long-Term Citizen-Collected Data Reveal Geographical Patterns and Temporal Trends in Lake Water Clarity

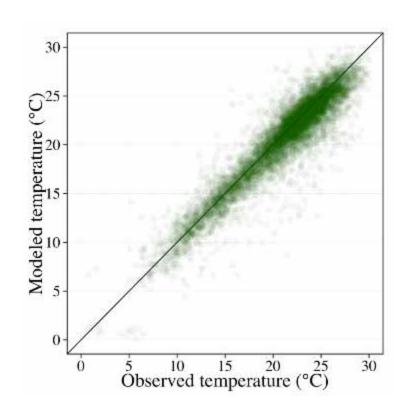
Noah R. Lottig¹*, Tyler Wagner², Emily Norton Henry^{3,4}, Kendra Spence Cheruvelil^{3,5}, Katherine E. Webster⁶, John A. Downing⁷, Craig A. Stow⁸

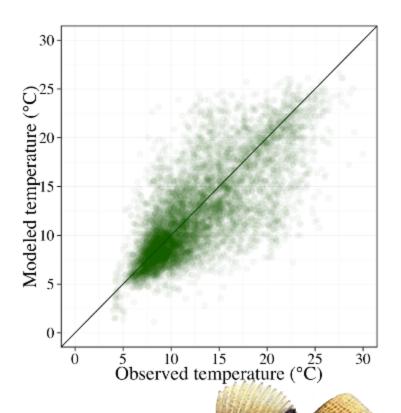


Modeling lake temperature and effects on walleye

Epilimnion temperatures

Hypolimnion temperatures





Thursday 2:55 – Gretchen Hansen

Emerging Issues

Divisive mine plan draws challengers to usually uncontested Iron County Board races



FEBRUARY 09, 2014 6:45 AM • BY STEVEN VERBURG | WISCONSIN STATE JOURNAL

A divisive proposal for a huge open pit mine in the Penokee Hills of northern Wisconsin has helped spur a surprising number of challengers to run against Iron County Board members in

Frac sand mines credited for rising, dropping property values



MARCH 30, 2014 6:00 AM • ALISON DIRR | WISCONSIN CENTER FOR INVESTIGATIVE JOURNALISM

TUNNEL CITY— Perry Schmitt describes himself as pro-mining but blames the frac sand mine

ime we had even one Board supervisor," served as county clerk



High-capacity wells possibly lowering some lake levels



JULY 22, 2013 5:30 AM • BY MARK PITSCH | WISCONSIN STATE JOURNAL

PLAINFIELD — Long Lake has lost its shoreline. Dock after dock dead-ends in the weeds. It looks more like an unmowed lawn with a pond in the middle than a place where families used to water ski and fish.

Once up to 12 feet deep, the lake is now closer to three, having bounced back slightly since 2006 when the lake dried up completely.

Friday 9:10 – Jessica Haucke on stream flow & lake levels

