

Citizen Science

Public involvement in scientific research



Citizen-based Monitoring

Public involvement in long-term monitoring of natural resources



Wisconsin CBM Firsts

- 1900: Christmas Bird Count
- 1966: Breeding Bird Survey
- 1976: Annual Midwest Crane Count
- 1981: WI Frog & Toad Survey
- 1986: Citizen Lake Monitoring Network
- 1996: Water Action Volunteers and Monarch Larva Monitoring Project



Wisconsin CBM Firsts

- 2004: WCBM Conference, Network, and Partnership Program
- 2008: Wisconsin Bat Program Monitoring
- 2014: Wisconsin Rare Plant Monitoring Program
- 2016: Joint Lakes Partnership Convention and WCBM Conference









Wisconsin Citizen-based Monitoring Network

www.wiatri.net/cbm



- Partnership of 180+ monitoring groups & projects
- Mission: Improve effectiveness of volunteer monitoring efforts
- Resources for project leaders, volunteers, researchers, and land managers

Wisconsin Citizen-based Monitoring Network

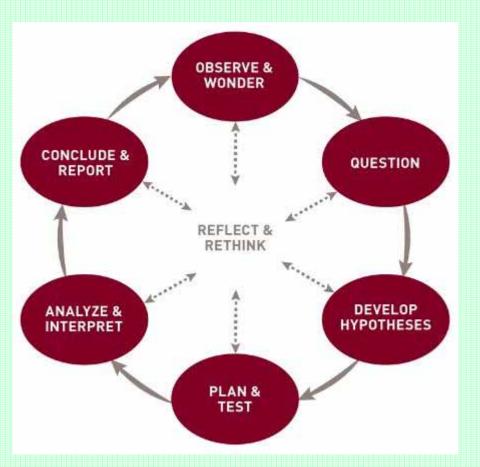
www.wiatri.net/cbm

Resources:

- Conferences
- Trainings
- Funding
- Equipment Lending
- Newsletters
- Event Calendar
- Technical Support

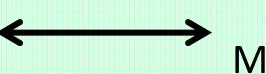


How Are Data Used?





Scientific Research



To Inform Management

Long Term Water Clarity Trends

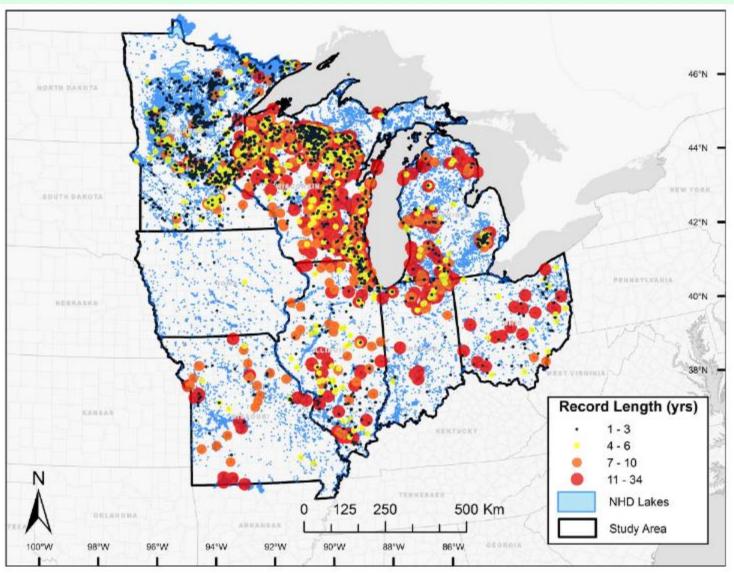


Figure 2. Upper Midwest states in the US and Secchi record lengths (years) for all citizen monitored lakes included in the study. Size and color of symbol designate record lengths. See Table 1 for information on citizen monitoring networks by state. doi:10.1371/journal.pone.0095769.g002

Water Clarity Results



- 1% per year increase in water clarity across all lakes
- Only 7% of lakes showed pattern of increased clarity
- Lakes in Wisconsin and Minnesota drove overall trend



Citizen Lake Monitoring Network







Wisconsin Mussel Monitoring Program

Michael Kienitz

Importance of Native Mussels



Improve water quality and clarity



Improve substrate habitat



Food source

Threats to Native Mussels

- Water Pollution
 - Excess nutrients
 - Sedimentation
 - Heavy metals
- Dams
 - Limits connectivity for host fish
- Invasive species







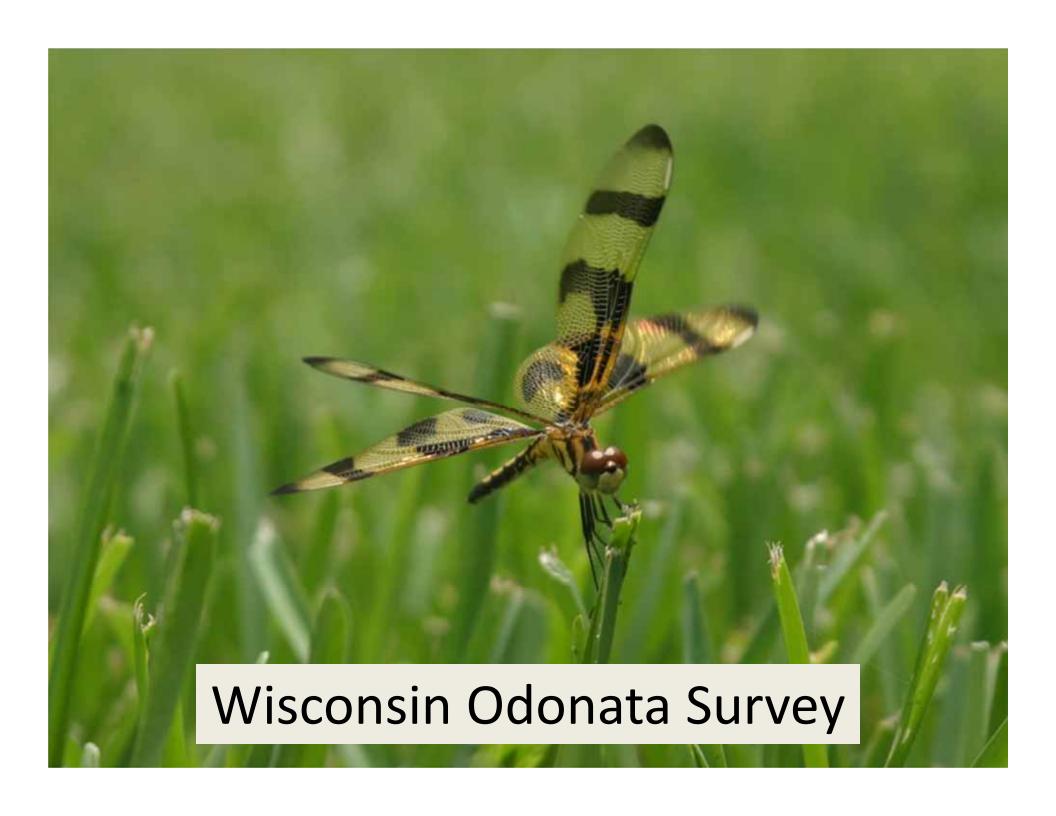
How Can I Monitor Mussels?

- Take photos
- Share on iNaturalist
- Collect shells
- Attend a WMMP event









Odonates- Getting Started







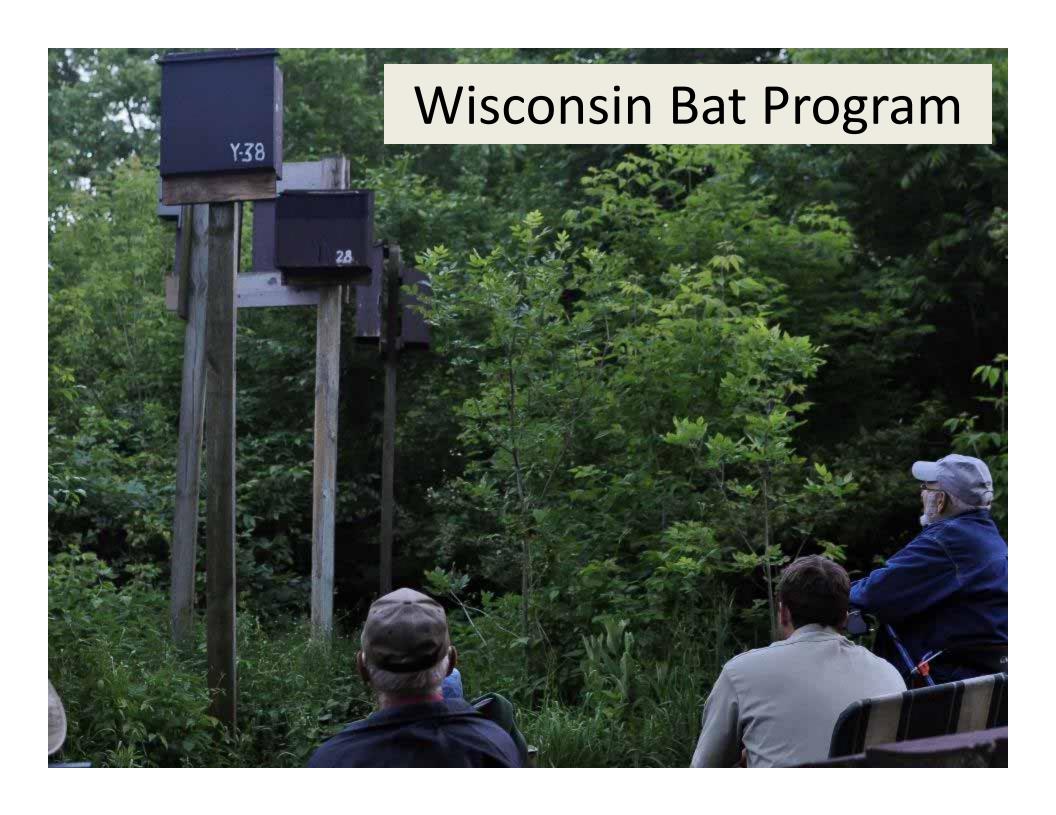


Are you interested in Damselflies and Dragonflies?

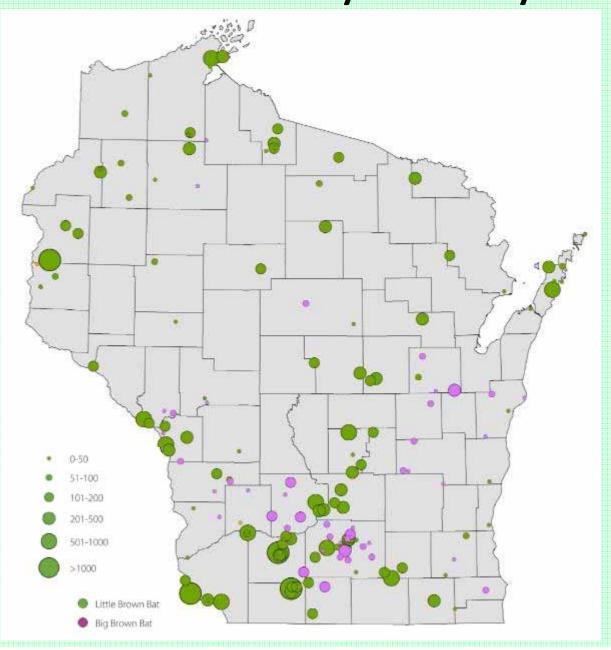
Are you fascinated by them and want to learn more?

Would you like to connect with others who have the same interest?

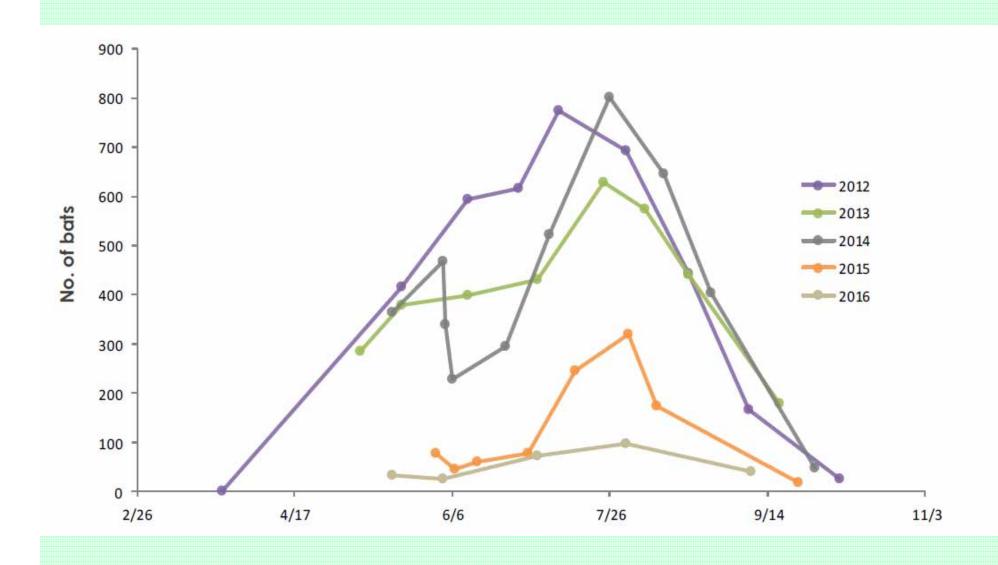
If so, please join us!



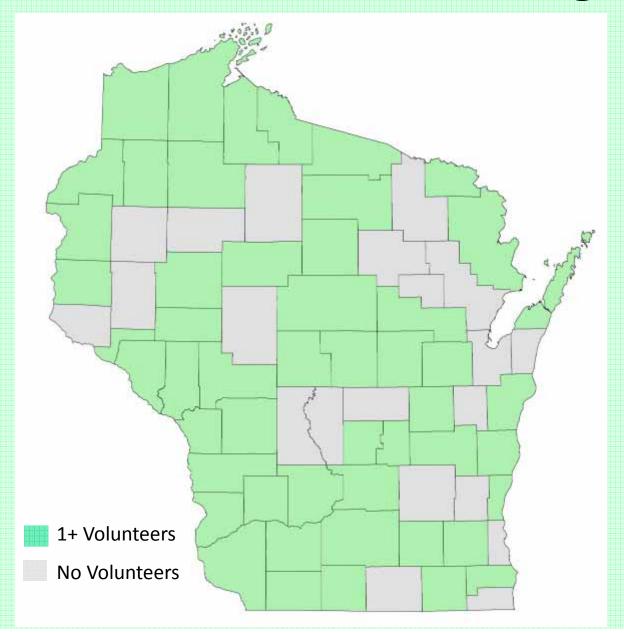
2016 Bat Roost by Colony Size



Barn Roost in Door County



Roost Monitoring Needs



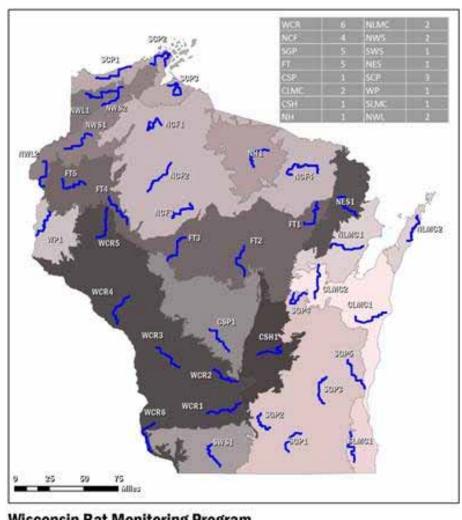


Great Wisconsin Bat Count

June 2-4 July 28-30



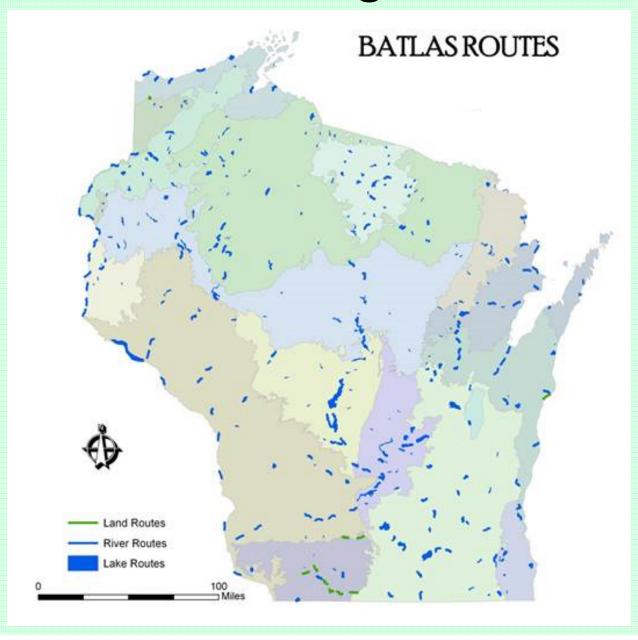
Acoustic Monitoring Needs- Driving



Wisconsin Bat Monitoring Program Acoustic Bat Survey Driving Routes

- Driving Route

Acoustic Monitoring Needs- Water



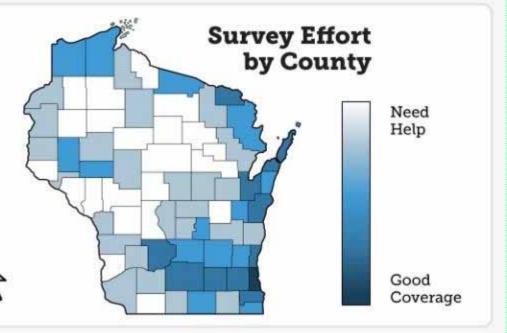


We Need Your Help

Not an expert? Not a problem. Every sighting counts

We have had great coverage in some counties, but there are still blocks that need coverage in every area of the state. Get involved in this historic bird survey by going to

wsobirds.org/atlas 🖟









Two Ways to Participate





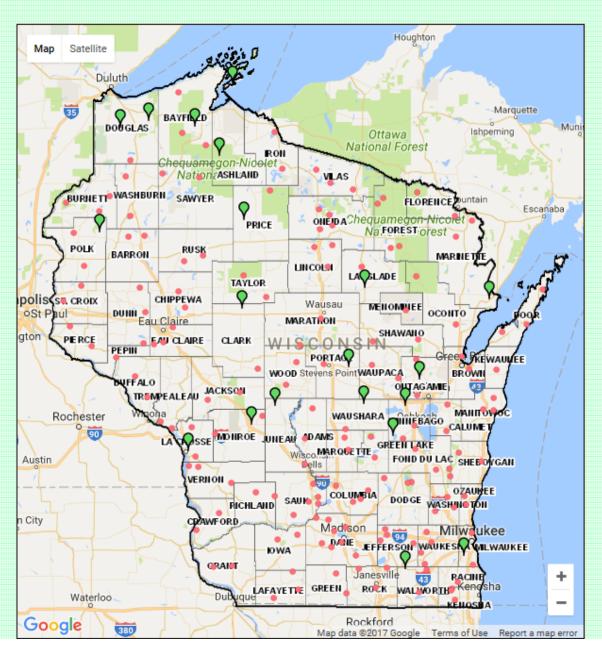
Driving Surveys

- Pre-determined route
- 10-25 miles
- 10 stops
- 3 times per year

Phenology Surveys

- Single location (chosen by you)
- 1-2 times per week April 1- Aug 1

Volunteers Needed!



Wisconsin Turtle Conservation Program



Results (2012-2016)

- 2,177 Individual Reports
- 267 Nest Site Reports
- 1,036+ Volunteers

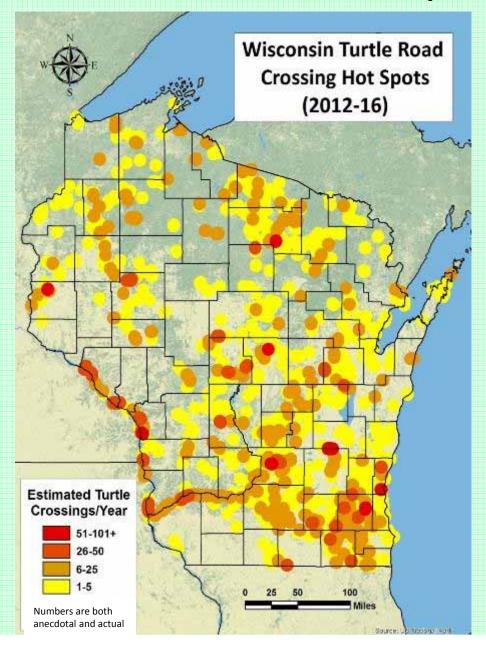




Species Reports Vetted

- 67 Blanding's Turtles
- 10 Wood Turtles
- 1 False Map Turtle
- 1 Ornate Box Turtle

Results (2012-2016)

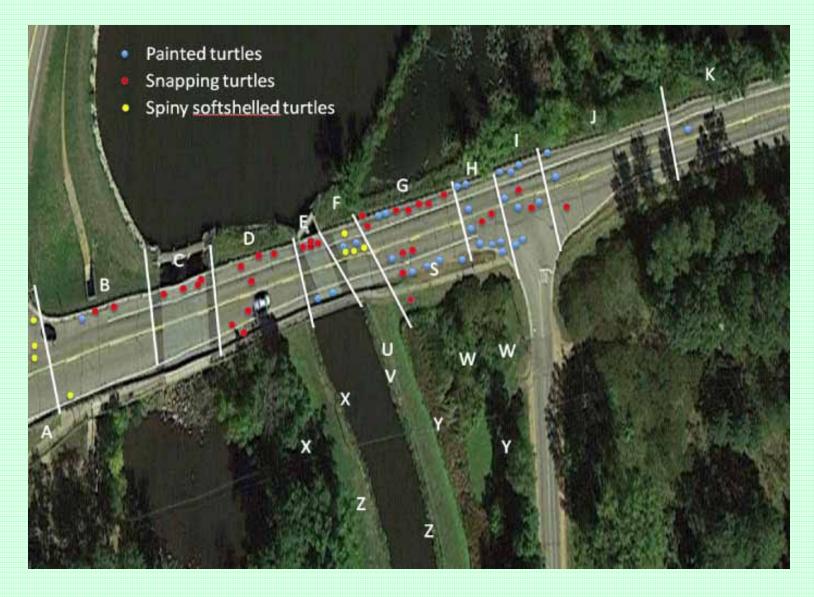


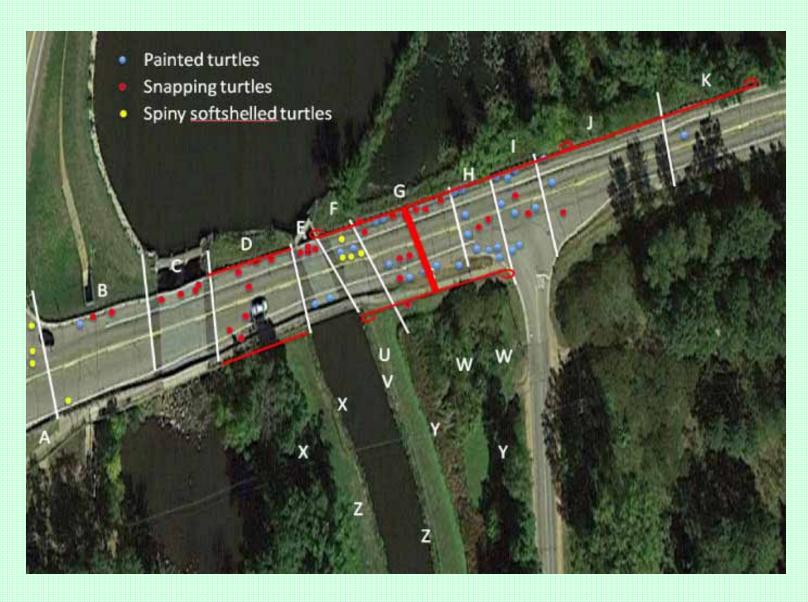
1,021 Crossing Reports

- 450 Road Crossings (Mortality)
- 568 Road Crossings (Non-Mortality)
- 3 Railroad Crossings (Mortality)



2015 Jordan Pond Mortalities

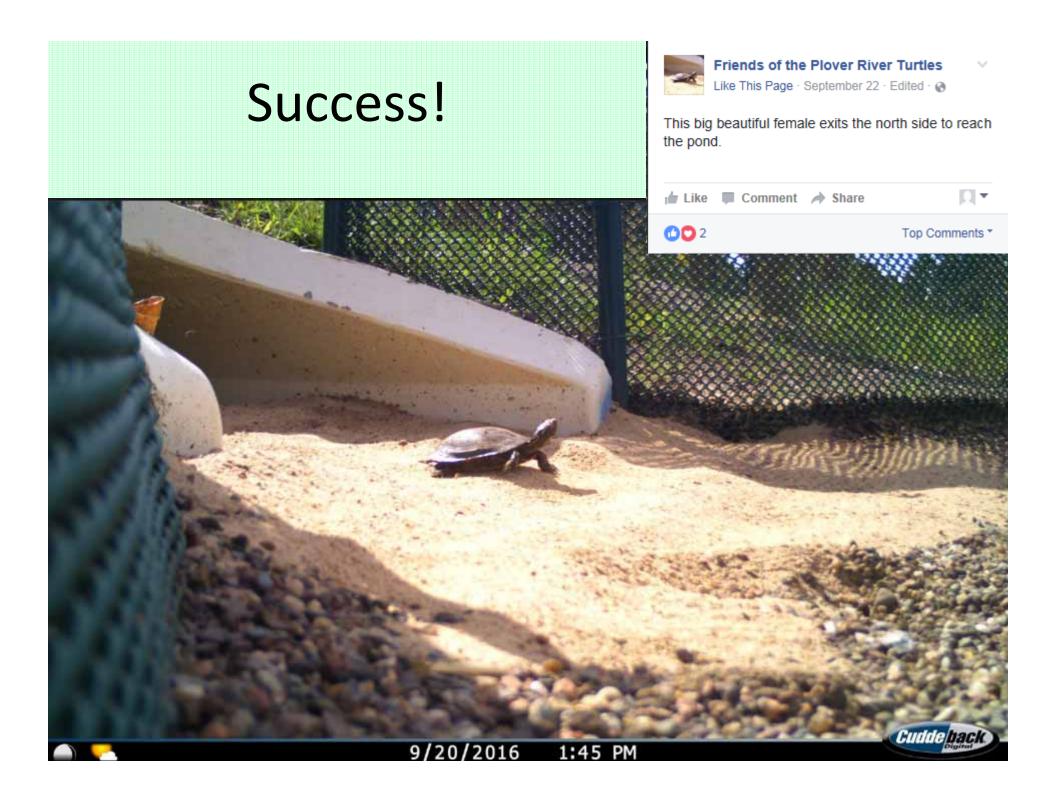












How to Participate

- Find a project
 - Wisconsin Citizen-based Monitoring Networkwiatri.net/cbm
 - Wisconsin DNR, dnr.wi.gov
- Get trained
- Follow protocols
- Take careful notes
- Enter your data





Questions?



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wiatri.net/cbm

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twitter.com/wiscbm