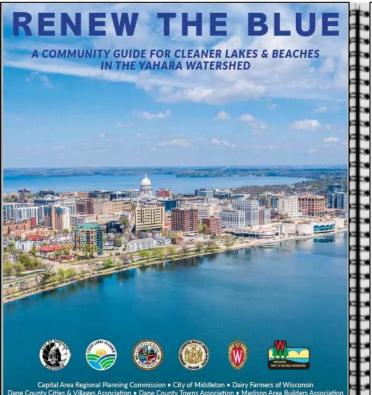
# Healthy Lakes, Healthy Community

4AH L

#### **Roadmap Reboot**



Capital Area Regional Planning Commission • City of Middleton • Dairy Farmers of Wisconsin Dane County Cities & Villages Association • Dane County Towns Association • Madison Area Builders Association Madison Metropolitan Sewerage District • REALTORS Association of South-Central Wisconsin UW-Madison Center for Limnology • UW-Madison Division of Extension UW-Madison Nelson Institute for Environmental Studies • Yahara Lakes Association Yahara Watershed Improvement Network

#### RENEW THE BLUE A Community Guide for Cleaner Lakes & Beaches in the Yahara Watershed

Clean and healthy lakes are a benchmark of a healthy community. We, the undersigned, recognize that the Yahara Watershed's five majestic lakes—Mendota, Monona, Wingra, Waubasa, and Kagonsa—define our sense of place and contribute to the region's natural heritage, economic vitality, and local quality of life, we are proud of our prior work and investments to protect and enhance these usests, but more needs to be done for the lakes to mast their potential.

On this 18th day of May 2022, we come together under the Yahara CLEAN Compact to renew and strengthen cur partnership, uniting around a shared vision and path forward. We pledge through our signatures to champion the Compact's goals and objectives, to support implementation of this RENEW THE BLUE guidance, and to stay the course to build a better water quality future for this and future generations.

PARTNERS

JAMES TYE, FOUNDER

**G EXECUTIVE DIRECTOR** 

Road Romaly

TRADE & CONSUMER PROTECTION

RAN DY ROMANSKI, SECRETARY WISCONSIN DEPARTMENT OF ABRICULTURE.

CLEAN LAKES ALLIANCE

ATYA RHODES-CONWAY, MAYOR CITY OF MADISON



REBECCA M. BLANK, CHAN CELLOR University of Wisconsin-Madison



CHAIRPERSON CAPITAL AREA REGIONAL PLANNING COMMISSION

Bob Wipperfull BOB WIPPERFURTH, PRESIDENT

BUB WIPPERFORTH, PRESIDEN DANE COUNTY CITIES 6 VILLAGES ASSOCIATION

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CHIEF ENGINEER Madison Metropolitan Severage District

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JOSEPH T. PARISI, EXECUTIVE Dame county

hul. Cole

PRESIDN D. COLE, SECRETAN Wisconsin department of Natural resources

#### COLLABORATORS

GURDIP BRAR, MAYOR

JERRY DERR. PRESIDENT

RUTH A. HACKNEY, CEO

CENTRAL WISCONSIN, INC.

REALTORS ASSOCIATION OF SOUTH-

SCOTT SEYMOUR, PRESIDEN

VAHARA LAKES ASSOCIATION

DANE COUNTY TOWNS ASSOCIATED

had purch CHAD T. VINCENT, CED

DAIRY FARMERS OF WISCONSIN

CHAD M. LAWLER, EXECUTIVE Director Madison area hulders association

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JAKE VANDER ZANDEN, DIRECTOR UN-MADISON CENTER FOR LUMNDLOGY

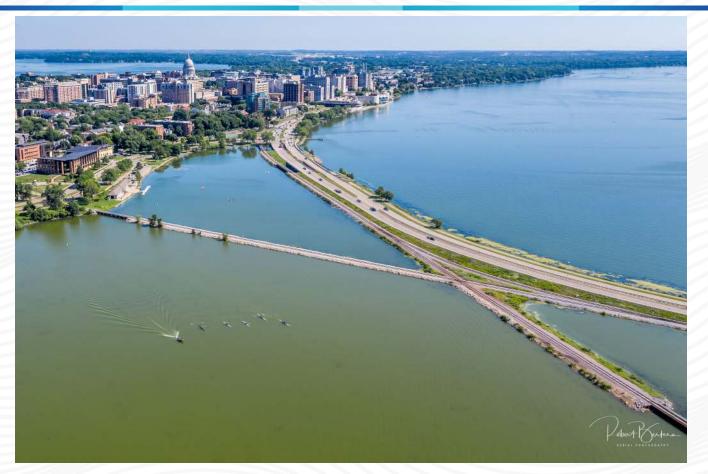
MARTIN GRIFFIN, PRESIDENT Yahara Watershed improvement Wetwork (Yahara Wiks)

MAY. 2022 6 Community Coffee & Annual Meeting | May 2022

#### **Yahara CLEAN Compact**



#### **Which Future?**



#### "Impaired" -- Clean Water Act

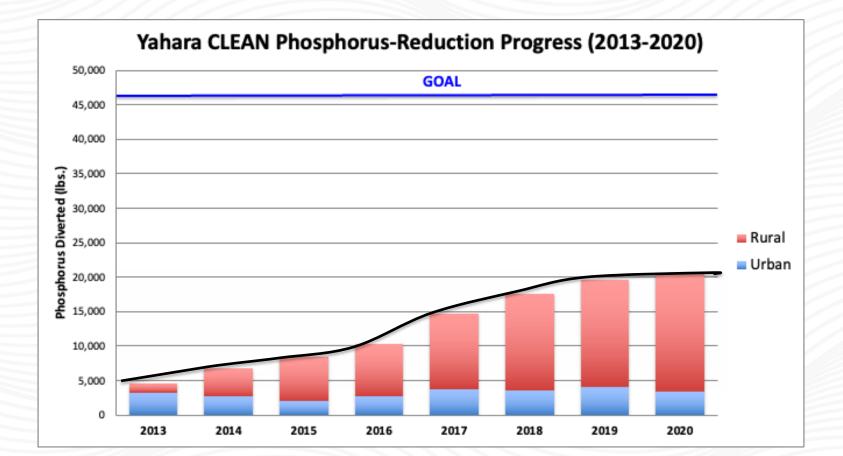
Lakes 1. Mendota 2. Monona 3. Wingra 4. Waubesa 5. Kegonsa

#### **Streams**

1. Yahara 2. Token 3. Sixmile 4. Dorn 5. Pheasant Branch 6. Wingra 7. Starkweather 8. Swan 9. Door

Beaches (E. coli) 1. Spring Harbor 2. Tenney 3. Mendota County 4. Esther 5. Hudson 6. Olbrich 7. Brittingham 8. Bernie's 9. Goodland 10. Vilas 11. Olin 12. Governor Nelson?

#### **Pace of Action**

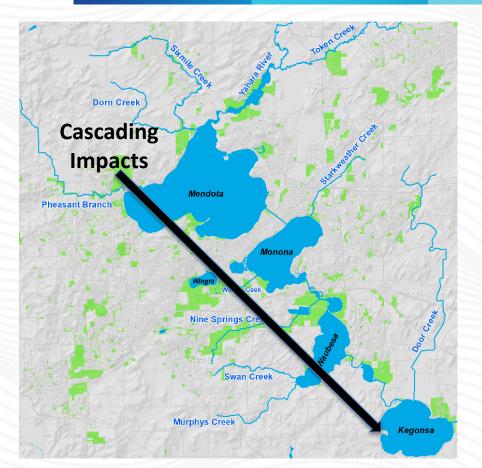


#### **Renew the Blue Vision**

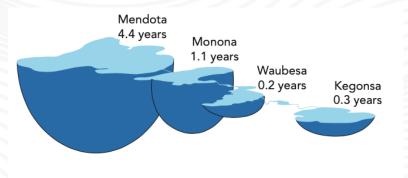


#### Open beaches 💛 Fewer algal blooms 💛 Clearer lakes

# Lake "Memory" & Recovery Potential



Frequency of good water clarity in Mendota & Monona is **linearly related** to phosphorus loading

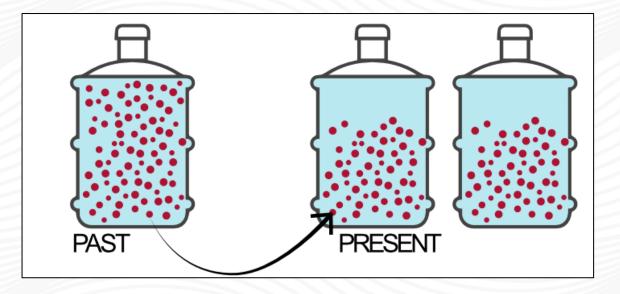




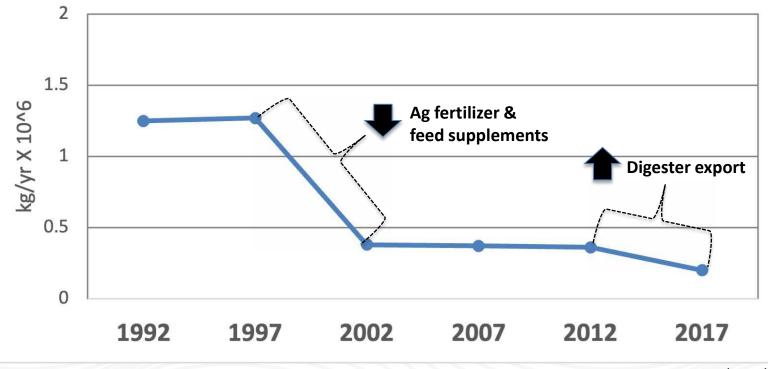
# We ARE Making an Impact

# If not for increased rainfall and runoff, conservation efforts would have resulted in a **36% decrease** in phosphorus delivered.

Source: Matt Diebel, Dane County LWRD



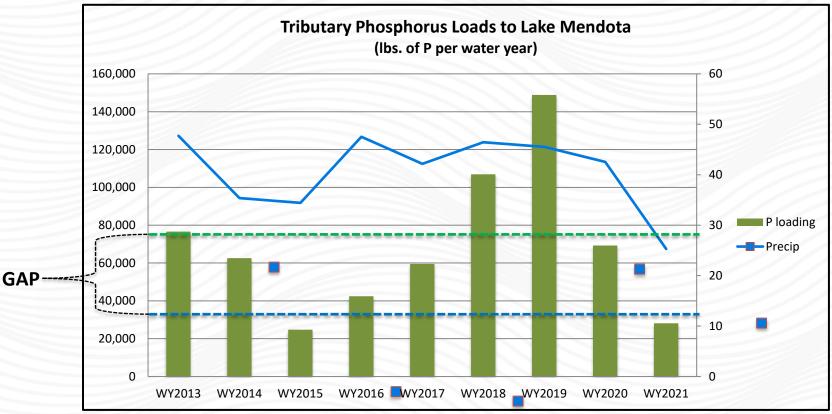
#### Annual Net P Accumulation in Yahara River Watershed



Research credit: Eric Booth, UW-Madison

#### **Need to Do More**

57% phosphorus reduction to meet loading target (47,600 lbs.)

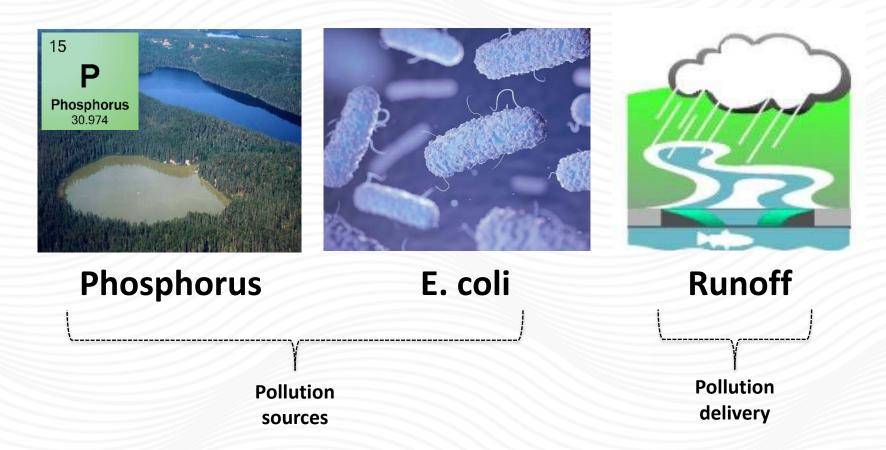


#### **Expected Lake Response**

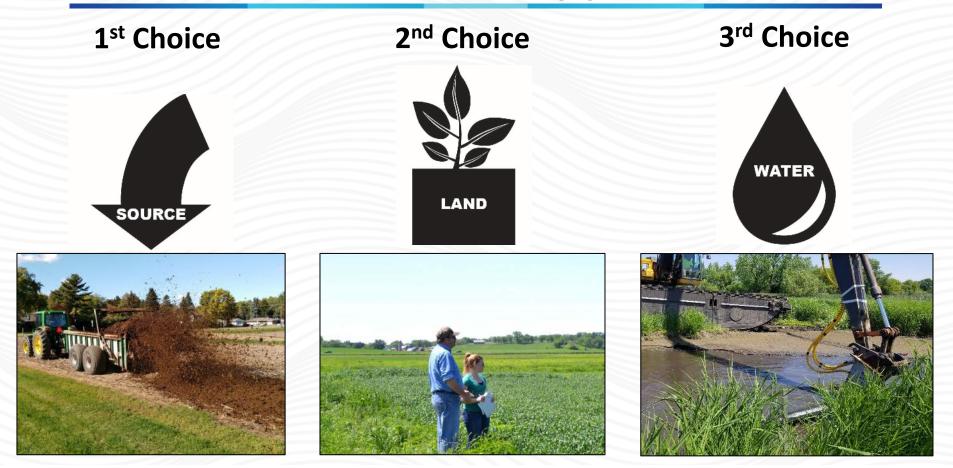


**Double** the number of days our lakes are clear and free of algal blooms.

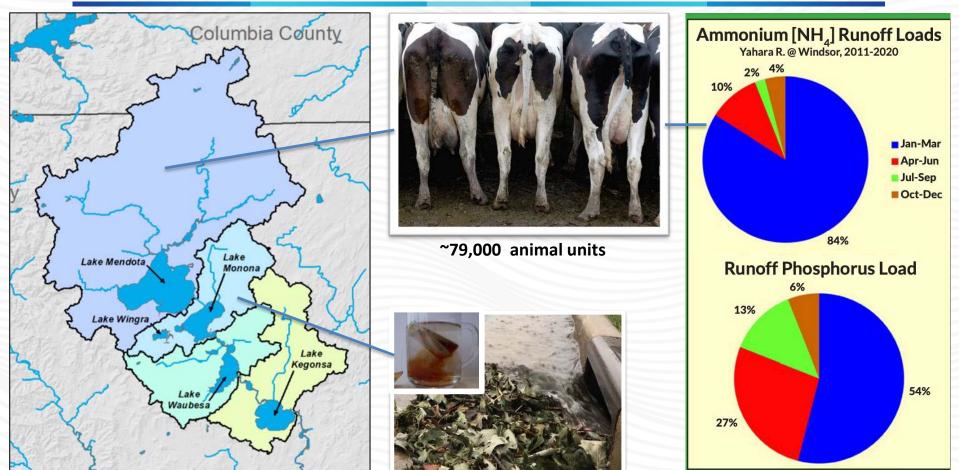
#### **Renew the Blue Objectives**



#### **Renew the Blue Approaches**



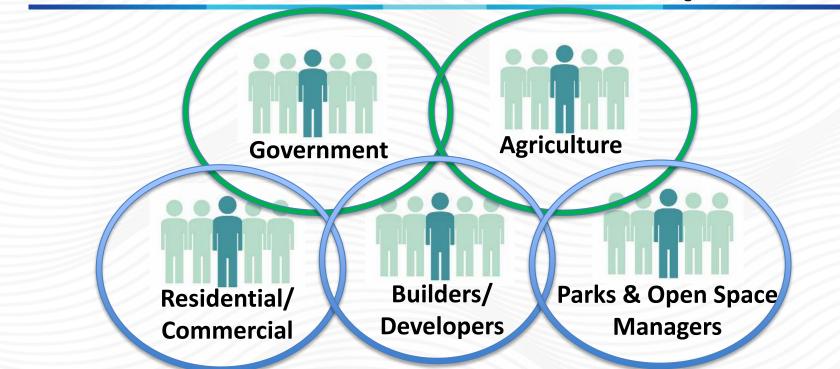
### **Biggest Phosphorus Sources**



#### **Priority Focal Points**

- Winter manure runoff
- Urban leaf-tea runoff
- Lands with high hydrologic connectivity
- Phosphorus mass balance (exports > imports)

#### **Stakeholder Action Groups**



"As more people implement changes at their homes and businesses, the more likely they will advocate for what is needed to sustain the overall effort."

#### **Top Direct-Impact Actions**

- Build more manure-processing/handling capacity
- More farmland guided by nutrient management plans
- More farmland with continuous living cover & reduced tillage
- Increase fall leaf collections from city streets
- Protect wetlands & closed basins
- Increase green-infrastructure installations

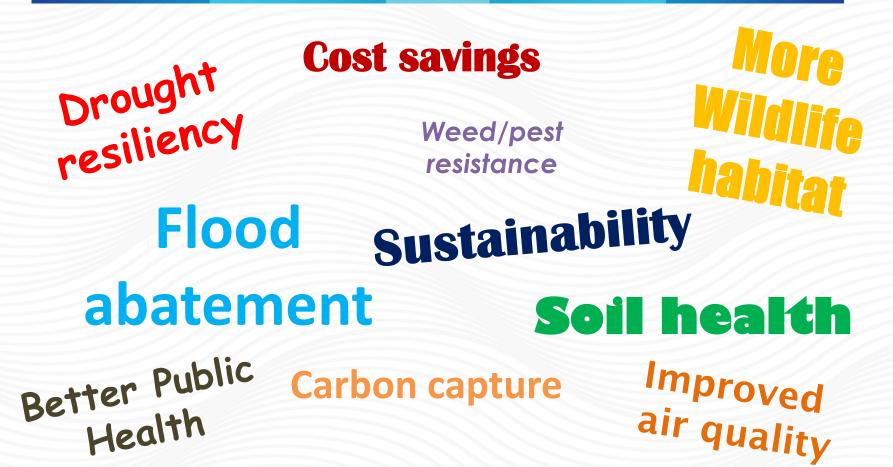
#### **Evidence of Landscapes Out of Balance**



# "Re-greening" the Watershed



### **Co-Benefits of Lake-Improvement Action**



#### **Top Indirect-Impact Actions**

- Increase participation in producer-led groups
- Inventory shoreline & beach conditions
- Increase E. coli testing at public beaches
- Continue collaborating as a Compact
- Continue to track & report progress



#### **Learn More & Get Involved**

