

Pleasant Lake Improvement Association
General Membership Meeting
Presentation
August 19, 2023



President's Message

- Kevin Bergstrom, President
- Introductions
- Website Updates
- We need board members.
- Aggressive treatment of AIS is making a real difference.
- Thank you for your ongoing support.

Starry Stonewort Status In Pleasant Lake

**Steve McComas, Jo Stuckert, and
Connor McComas**
Blue Water Science

August 19, 2023

Starry Stonewort

INVASIVE

Starry stonewort

Nitellopsis obtusa

KEYS TO ID

- Long, smooth branchlets are attached in whorls of 5 – 8
- Small, star-shaped bulbils form on clear threads at base of plant and may be found above or below the sediment surface
- Small, orange spheres called antheridia may be visible, these are male reproductive structures
- Typical branchlets are long; can be up to twelve inches
- Can form dense mats in water

LOOKS SIMILAR TO

- Native *Chara* (native)
- Native *Nitella* (native)
- Sago pondweed (native)
- Water stargrass (native)

WHERE TO LOOK

- In shallow, still water and near accesses

CURRENTLY FOUND

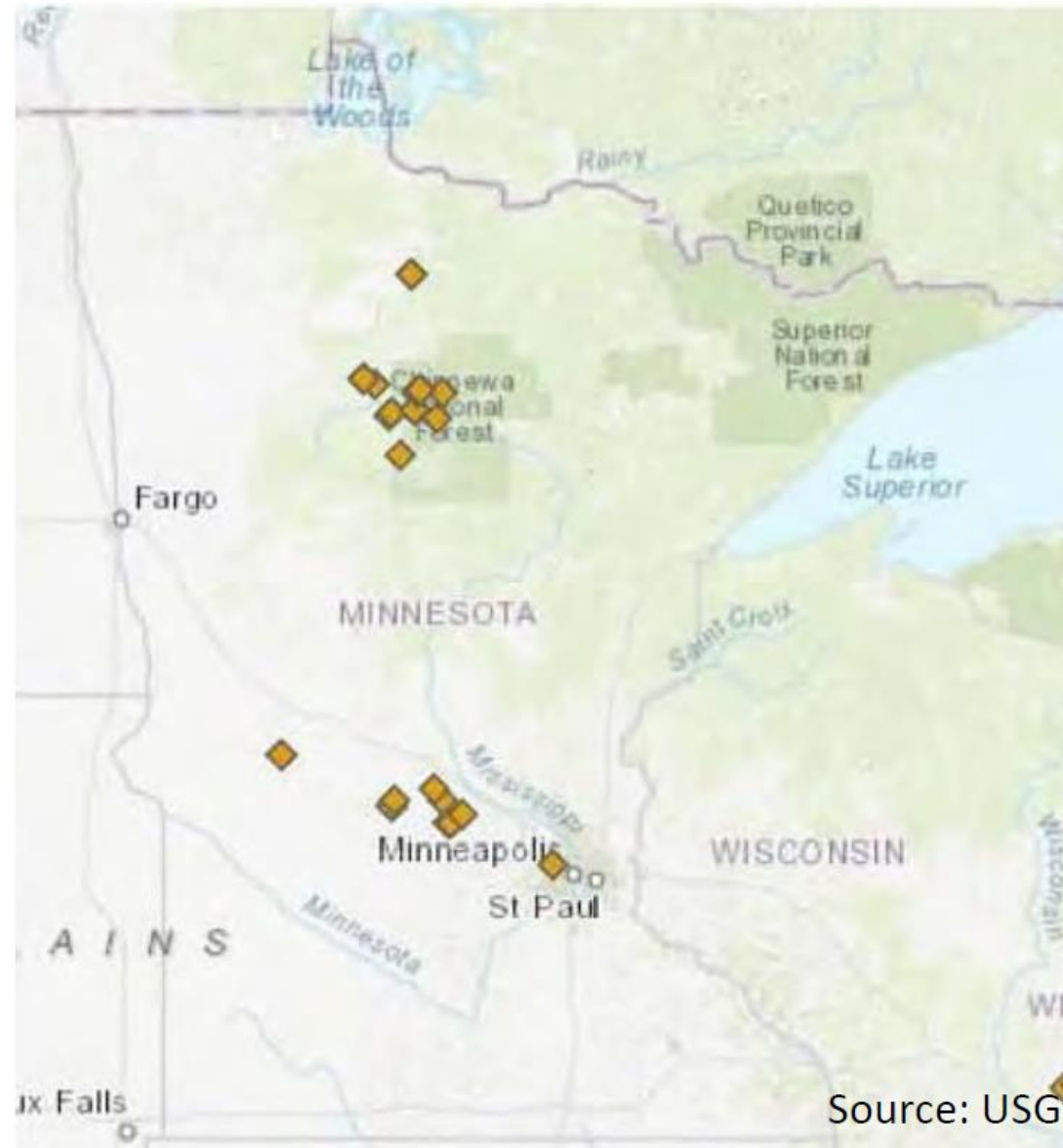


Actual size of bulbils

Below: orange antheridia



Starry Stonewort (SSW) Is in 25 Lakes in Minnesota



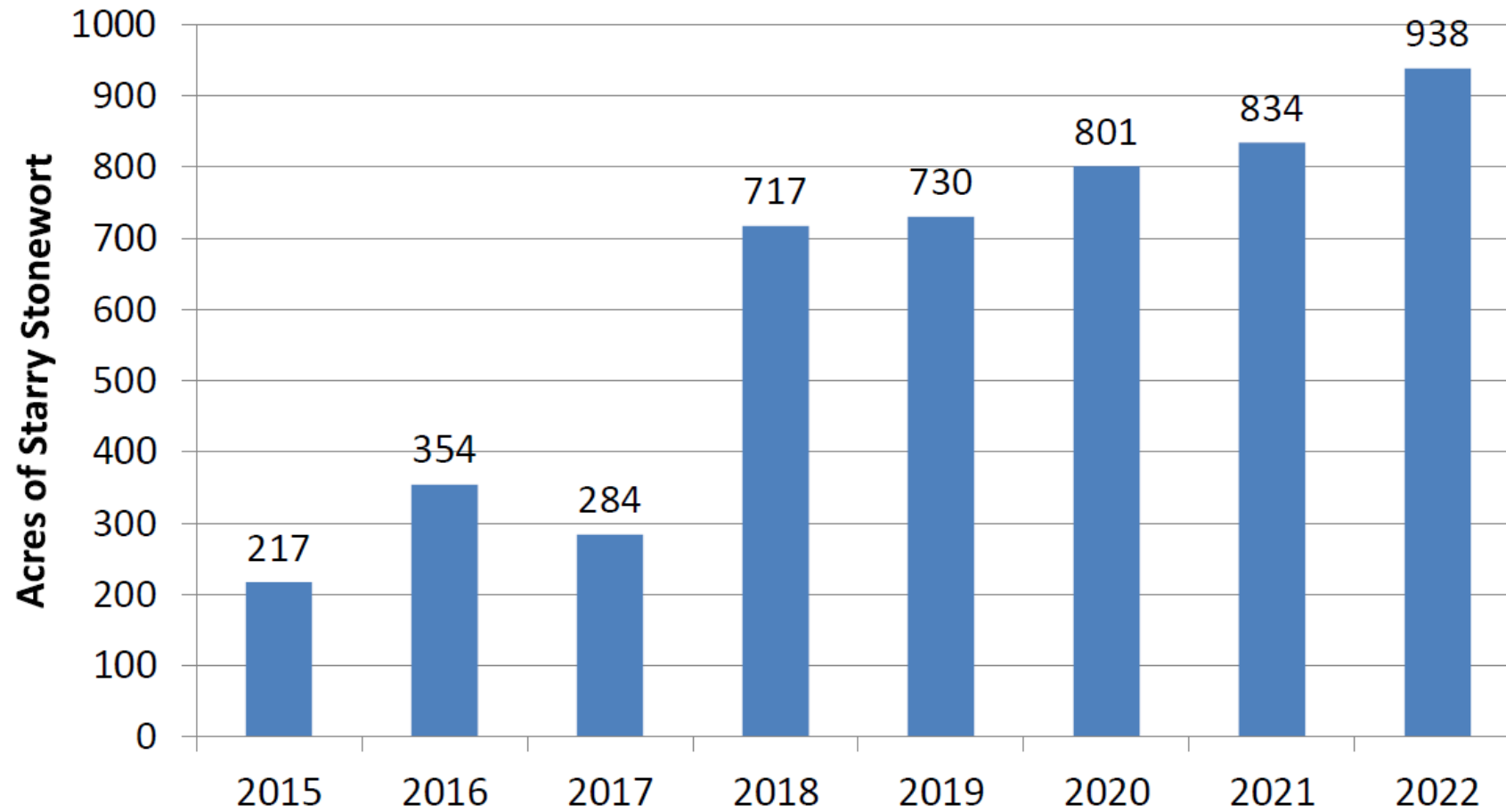
**SSW Starts
Out in a Small
Area Typically
at a Public
Access**



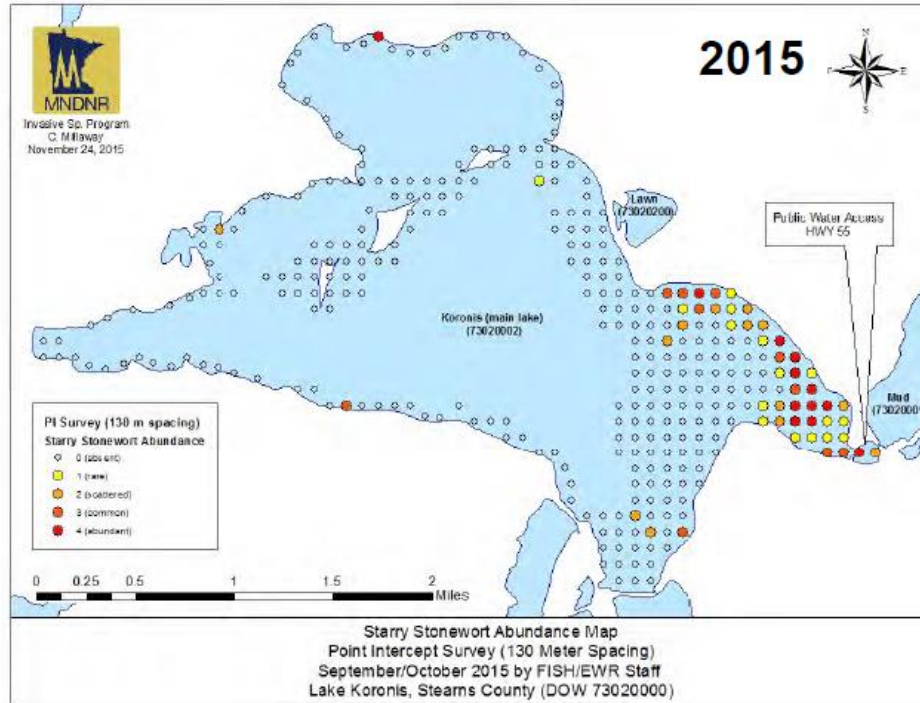
SSW Has Potential to Spread Throughout the Lake

Lake Koronis

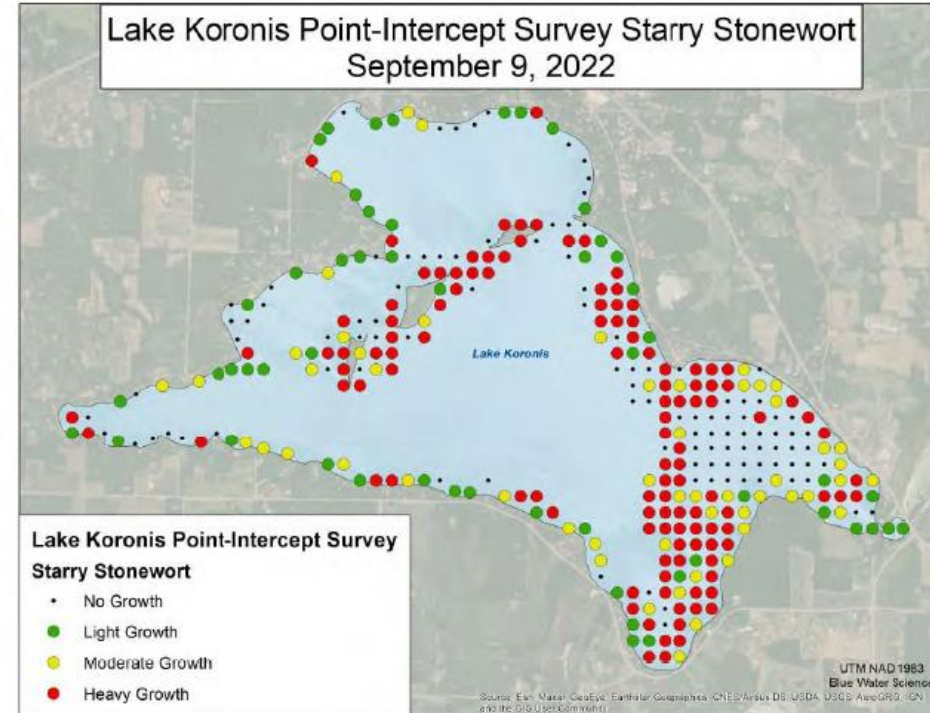
Spread of Starry Stonewort in Lake Koronis from 2015 to 2022



Lake Koronis (2,968 acres)



**2015: 217 acres
(first observed)**

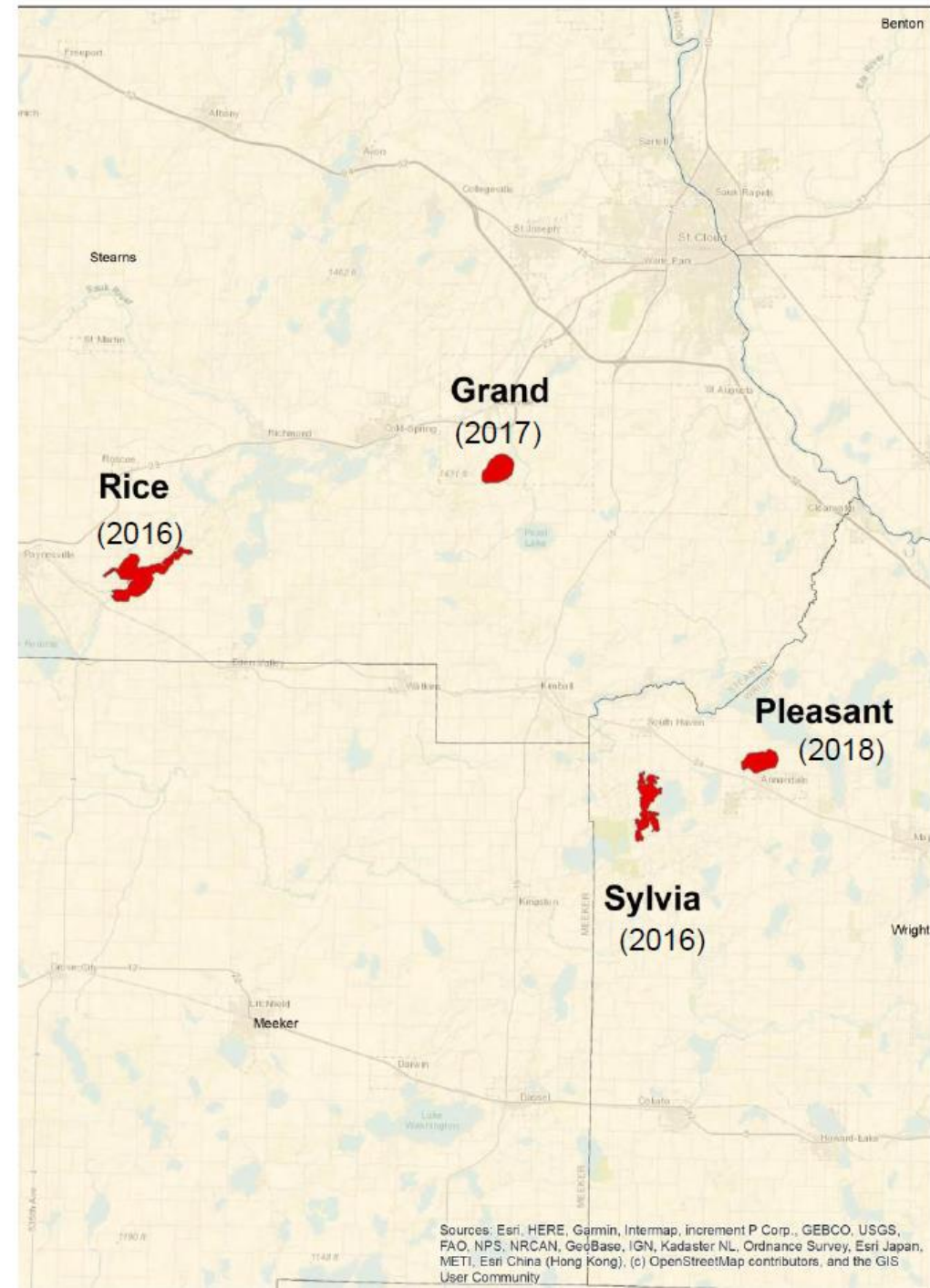


**2022: 938 acres
(current objective is to
manage heavy growth)**

Can SSW Be Contained If Found Early?

In 4 lakes, SSW was initially found with light to moderate growth at the public accesses

- Grand (1 ac removal)
- Pleasant (0.5 ac treatment)
- Rice (0.6 ac expanded to 12.8 ac, reduced to 4.6 ac)
- Sylvania (0.5 ac expanded to 1.7 ac)



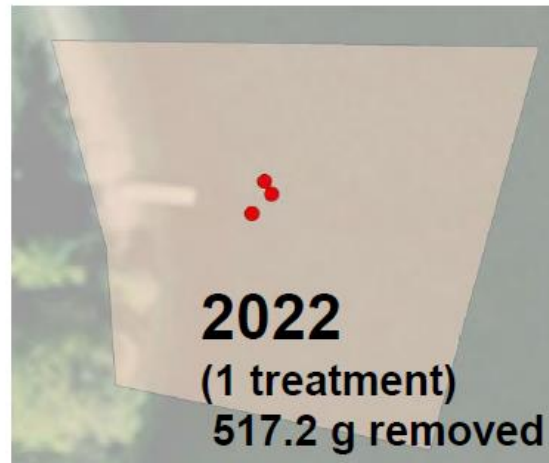
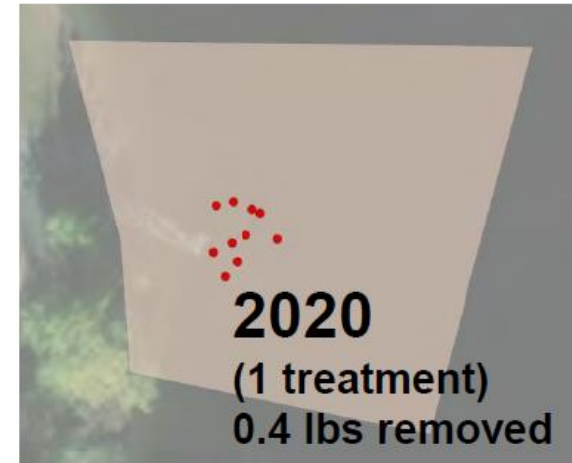
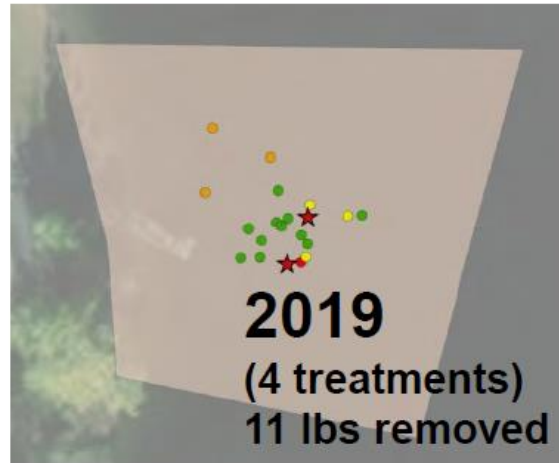
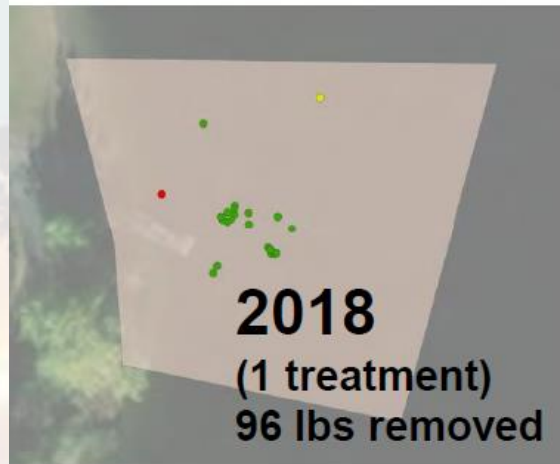
Pleasant Lake Access

(0.5 acre treated area)



Pleasant Lake SSW

(5 yrs of hand removal with copper treatments)(0.5 ac)



Pleasant Lake Starry Stonewort Search September 14, 2020



Examples of SSW Regrowth Found After Copper Treatments



Examples of SSW Hand Removal at Accesses



**To Eliminate
SSW from an
Access Will
be
Challenging**

**Bulbils Can
Be Plentiful**



2022

**All SSW locations are
compiled for 2022.**

Pleasant Lake

(0.4 lbs removed)
(<2 g in September)



Hand removal + copper treatment

SSW Findings Through 2022 (1 of 2)

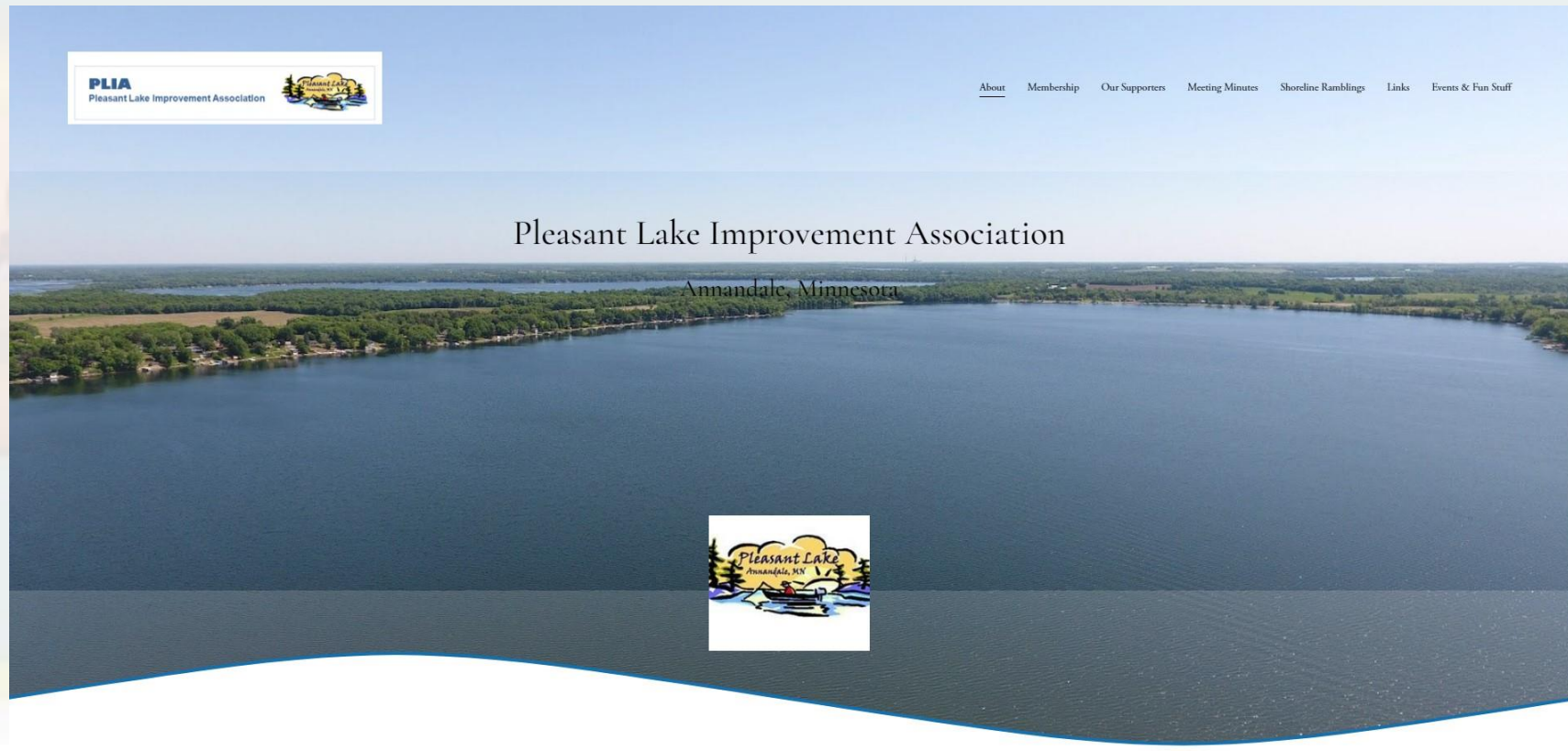
- Hand removal, chemical applications, or both have kept small SSW infestations from spreading throughout the 4 lakes.
- SSW has been contained in a public access area in Pleasant Lake for 5 years, but SSW has not been eliminated.
- Multiple annual treatments are a factor to contain the spread. First treatments have been in late June or July. However, new growth continues through the summer months.

SSW Findings Through 2022 (2 of 2)

- Barriers have not been used for chemical treatments.
- Chemical applications may control nearly all above ground SSW, but bulbils in sediments are likely resistant to chemical treatments.
- Hand removal may remove rhizoids and bulbils, but is not likely to remove 100% of the SSW biomass
- Hand removal followed by a copper treatment is a good control option. Early detection is the key to containment.

PLIA Website Updates

- Beth-Alison Bergren, Director



PLIA Website

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PLIA Website

Upcoming events.

Annual Meeting and Walk

Saturday, August 19, 2023

9:30 AM – 10:30 AM

Pleasant Lake Improvement Association ([map](#))

[Register Here!](#)

Registration Fee is due at the time of Registration.

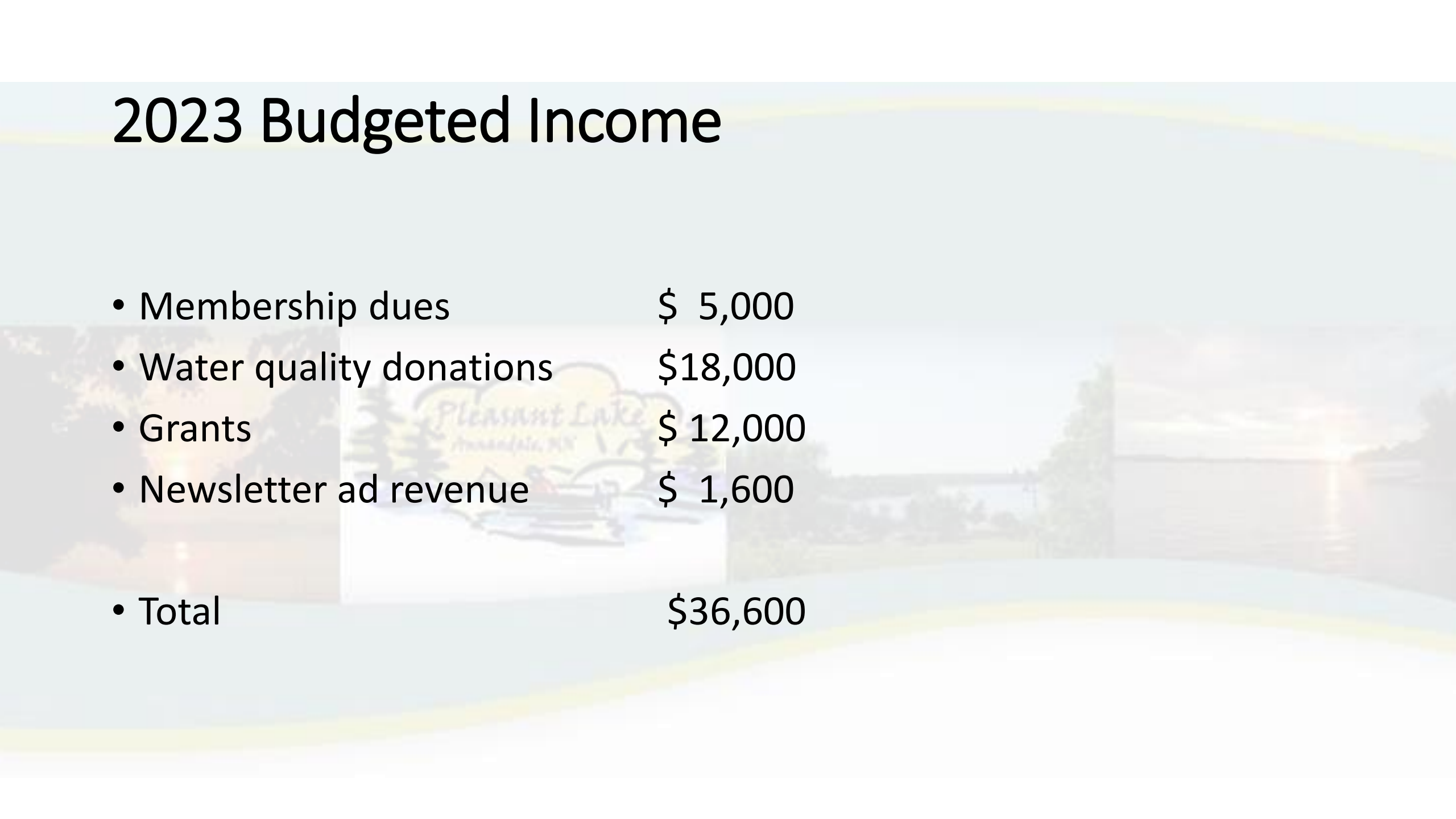
Pre-Registration is due August 4th and includes Tumbler.

\$25 for Adults (includes 16 oz. Tumbler)

Treasurer's/Membership Report: 2023 YTD

- Kelli Bronder, Treasurer
- Our year to date dues revenue of \$4,750 = 95 properties.
- 95 properties = 74% of eligible properties.
- If you haven't sent your dues check yet, **please** mail it by the end of August and encourage your neighbors to help the PLIA too.
- Our goal is 80%- We are SO close!
- Thanks to all who have paid their 2023 dues!

2023 Budgeted Income



2023 Budgeted Expenses



• Water Quality / Surveys/ Treatments	\$22,150
• Ramp Inspection	\$ 8,000
• Insurance	\$ 900
• Accounting	\$ 600
• Boat Parade	\$ 150
• Welcome Gifts	\$ 200
• Postage & PO Box	\$ 400
• General Expenses	\$ 750
• Total	\$ 33,150
• Contribution to Reserves (IF we receive Water Quality Donations of \$25,000)	\$ 3,450

Year to Date Financials (as of July 31, 2023)

- Beginning Balance: \$60,516.99(per January Lake Central Bank statement)
- Total Income: \$24,634
- -Total Expenses: \$15,765
- -CD Purchase \$40,000. plus 40,000 renewal
- Current Balance: \$34,157.86 in Lake Central Bank Checking

- AIS Campaign Reserve Fund: \$80,341.37 in FDIC Insured CDs

AIS Management

- Kyle Bauman, Vice President
- Curly-leaf Pondweed - Treated 40 acres
- Eurasian Water Milfoil
 - Not found last year, will check in August/September
- Starry Stonewort – Treated 1 acre
 - Divers surveyed, harvested, and Mizzen application at County landing
 - Early July – 3 locations but very small amount
 - Monthly check on County landing
 - Will do a survey and dive on both landings in September
- Zebra Mussels
 - Hopefully are approaching a "peak"
- Whole lake survey in September
 - Will concentrate on Eurasian Water Milfoil and Starry Stonewort

Social Engagement

- **Jill Gruys, Director**

- 2023 Summer Event Engagement
- Future Social Engagement
 - E-mail Jill.Gruys@target.com with suggestions for social events, as well as willingness to host
 - Survey Check In



Summary

- 90% of funds received go directly into the treatment and annual management of Pleasant Lake.
- Your financial support is key in continuing to manage AIS effectively.
- Aggressive management of AIS is working and making a real difference.
- Thank you for ensuring Pleasant Lake remains a wonderful resource for the entire community.

Thank you for your ongoing support!



Be sure to visit / contact us:

Facebook at [PLIA - Pleasant Lake, MN](#)

Website at [PLIAMN.com](#)

Email at PLIAMN@yahoo.com