

## **Presentation Outline**

Fragrant Water Lily
& Management in Missoula
County

**Holland Lake Context** 

Stakeholders and FWL population on Holland Lake

**Tabletop Activity** 

Macrophyte Survey & Herbicide Sampling

Rhodamine Dye study & Public engagement

# Fragrant Water Lily (*Nymphaea odorata*)

- Introduced perennial flowering plant
- Typically grows in 3-6 feet of water
- Lily pad has a red underside
- White flower with pointed leaves
- Creates large rhizome mats
- Can look Similar to Yellow Pond Lily





(Fragrant Water Lily)

(Yellow Pond Lily)

- Listed as a Noxious weed in Missoula County in 2020
- Large populations of Fragrant Water Lily on the clearwater chain of lakes and on Holland Lake



# Management of FWL in Missoula County

- Fragrant Water Lily monitoring and research
- Effects of algae
- Pulling small populations
- Mapping



### Holland Lake

- High use recreation area
- Headwaters for the Swan river
- Several larger populations of Fragrant Water Lily
- High public visibility
- Many different stakeholders



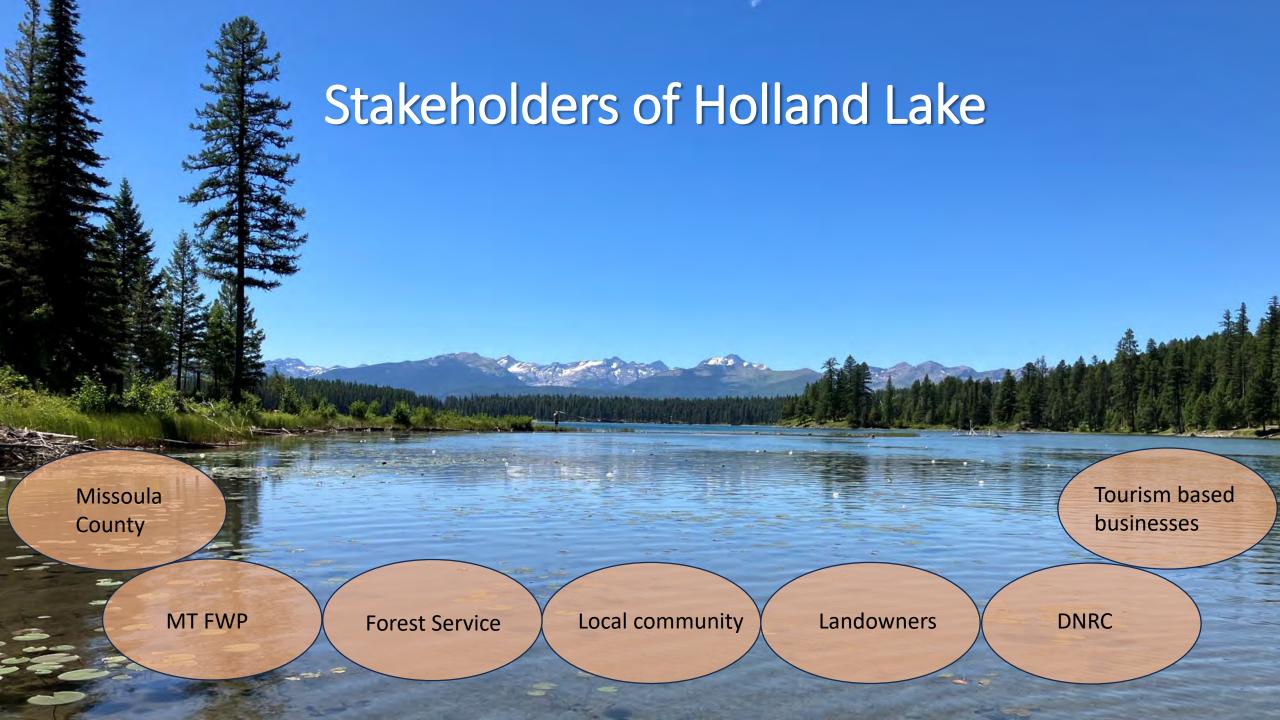


Fragrant Water Lily on Holland Lake (2022)

**FWL** 

0 0.15 0.3 0.6 0.9 1.2 Miles





#### **Tabletop Activity**

 On April 21<sup>st</sup> 2023, partnering agencies came together to determine an actionable management plan for FWL on Holland Lake

#### Goals of the tabletop activity:

- Determine current and future FWL management strategies
- Figure out needs for each management initiative
- Determine agency roles
- Establish individuals as leads for different aspects of the project
- Propose or establish funding sources





# Macrophyte Survey

- Macrophyte surveys were done in both Evil and in Scirpus Bay.
- Eight transects in each bay, each emergent stem was identified.
- One species of concern, Water Bulrush, Schoenoplectus subterminalis, was found just outside of Scirpus Bay.





Fragrant Water Lily on Holland Lake (2022)

**FWL** 





# Herbicide Sampling

- Gain an understanding preexisting herbicides in the system.
- We have found herbicides pretreatment in previous Fragrant Water Lily management on other lakes.





