

Vision *an overall statement for what you want Loveless Lake to look like*

Loveless Lake is minimally impacted by nuisance and invasive plant and algae growth and supports a lake lifestyle which balances natural shorelines and wildlife with recreational uses

Guiding Principles *provide guidance on how the lake management plan will be implemented*

Education, interest from residents, relationships between neighbors, and involvement in the Association is necessary to meet the vision for Loveless Lake

Lake management decisions are driven by an understanding of data and what is best for the resource

Goals for Loveless Lake are measurable, realistic, and achievable

Communication regarding lake management is easy to understand, concise, and frequent

Information is provided to understand the ever evolving nature of lake management, the complexity of issues, the status of projects and activities, the costs and benefits of actions, and the opportunity and techniques to reduce or prevent negative consequences of lake use and lakeside living

Goals: broad statements of direction

Objectives: measurable steps towards goals

- *Actions: activities to accomplish objectives*

Improve water quality to reduce nuisance aquatic plant growth and algae blooms

Loveless Lake is currently on Wisconsin's Impaired Waters List for chlorophyll under the Federal Clean Water Act, Section 303(d). Watershed and internal sources of phosphorus should be reduced such that Loveless Lake is removed from the Impaired Waters List for chlorophyll (less than 30% of days in the sampling season have algae blooms and chlorophyll values less than 20 µg/L). Loveless Lake is not currently listed for phosphorus; although the lake was listed in 2012. Phosphorus sources should be maintained such that Loveless Lake is not relisted for phosphorus (less than 40 µg/L).

Install **X** shoreline native plantings, diversion practices, rock infiltrations practices or rain gardens

- *Provide an educational message regarding the importance of native vegetation and diversion practices to reduce watershed sources of phosphorus*
- *Identify shoreland property owners interested in installing native vegetation and diversion practices*
- *Offer free annual Healthy Lakes property audits to identify property owners interested in installing practices*
- *Complete designs for Healthy Lakes practices*
- *Use the results of the 2015 shoreline inventory to prioritize installation of practices on properties with erosion*
- *Prepare a Healthy Lakes Grant application to fund projects up to 75%*
- *Install WDNR signage at Healthy Lakes project sites*
- *Organize a tour of properties where successful practices have been installed*

Install best management practices to address the culverts contributing the greatest concentration and amount of phosphorus to Loveless Lake

- *Review the need for maintenance to improve existing culverts*
- *Assess the site and select an appropriate best management practice*
- *Complete a field survey to inform the design of the appropriate best management practice*
- *Design the best management practice*
- *Request bids for the construction of the best management practice*
- *Ensure a maintenance plan is in place for new best management practices*

Engage shoreline property owners in improving water quality by developing and delivering educational messages

Topics include the negative impacts on water quality of:

- *Lawn fertilizer*
- *Failing septic systems*
- *Erosion or areas of bare dirt*
- *Near shore boat traffic and excessive speed*

Determine the possibility of purchasing highly erodible/ecologically sensitive land, if option arises

- *Form a committee to oversee the purchase of high erodible/ecologically sensitive land*
- *Identify parcels of highly erodible/ecologically sensitive land to acquire*
- *Research and explore the formation of a conservancy*
- *Research and explore grant opportunities for acquiring land*
- *Whenever possible, provide low impact recreational uses (walking trails, picnic shelter, public fishing pier, etc.) if land is purchased*

Protect and improve fish habitat to maintain Loveless Lake's natural fish population

Maintain and enhance desirable populations of fish by installing **X** habitat improvements

- *Work with fisheries biologist to determine locations for fish sticks and other habitat improvements*
- *Identify property owners interested in installing fish sticks and other habitat improvements*
- *Prepare a Healthy Lakes Grant application to fund the installation of fish sticks and other habitat improvements such as shoreline restoration*

Engage shoreline property owners in improving fish habitat by developing and delivering educational messages

Topics include the positive impacts on fish populations of:

- *Leaving fallen trees in the lake*
- *Observing slow-no-wake near shore*
- *Preventing erosion on the lakeshore*
- *Establishing no-mow areas on the lakeshore*

Maintain and enhance the natural beauty of Loveless Lake for the benefits provided to the lake lifestyle and wildlife

Maintain and expand undeveloped areas along the shoreline

- *Promote native plantings and no-mow areas to lake residents*
- *Determine the possibility of purchasing undeveloped, highly erodible, and/or ecologically sensitive land*
- *Prepare a Healthy Lakes Grant application to help fund shoreline plantings*

Maintain and expand in-lake habitat for wildlife

- *Post signs to promote slow no wake within 100 feet of the shoreline*
- *Research in-lake native plantings*

Engage residents and users in promoting a lake lifestyle

- *Provide information and education on options for shielding lights*
- *Provide information and education on boater safety*
- *Participate in public meetings if shoreline ordinances are rewritten*

Prevent the introduction, establishment, and spread of AIS in Loveless Lake

Ensure that lake users understand the steps necessary to prevent invasive species

- *Implement a Clean Boats, Clean Water monitoring and education program*
- *Participate in WDNR statewide programs including the Landing Blitz and Drain Campaign*
- *Ensure that signage at the boat landings is in place each year and updated as necessary*
- *Work with the Polk County Sheriff's Department to encourage enforcement of the Do Not Transport Ordinance*

Implement a monitoring program to quickly identify the introduction of new invasive species

- *Attend the countywide Citizen Lake Monitoring Network Training for invasive species which trains volunteers to identify and monitor for aquatic invasive species*
- *Form a committee of volunteers to monitor for invasive species over the course of the growing season with a focus on boat landings and other areas with high potential for introduction*
- *Contract with professionals to implement a monitoring program for aquatic invasive species*
- *Develop and implement a rapid response plan so that new populations are addressed quickly and efficiently*

Determine the current extend of curly leaf pondweed in Loveless Lake

- *Map curly leaf pondweed beds to determine if beds are expanding*

Provide education regarding lake ecology and management to Loveless Lake residents

Deliver focused educational messages to Loveless Lake residents using:

- *Newsletter articles focusing on 3-5 key items*
- *Guest speakers*
- *Events specifically geared towards kids*

Educational topics include:

- *WDNR regulations*
- *WDNR grants*
- *Native plantings/techniques (referring back to lake resident survey)*
- *Boat safety*
- *Slow-no-wake*
- *Lake District formation*
- *Effect of water quality on property value/resale*
- *Lake/watershed science*
- *Shoreland ordinance updates*
- *Current and trending news items*

Sustain the implementation of the plan and evaluate the progress of lake management efforts through monitoring and modeling

From committees to ensure that goals of the plan are met

- *Water quality*
- *Fish and wildlife*
- *Aquatic invasive species*
- *Information and education*
- *Social*

Annually review and document the progress made towards plan implementation

- *Identify action items that were completed*
- *Identify action items that were not completed*
- *If actions were not completed, identify why they were not completed*
- *Identify current and future barriers to implement the plan*
- *Report progress in the bi-annual newsletter*

Determine the possibility of forming a Lake District

- *Form a committee to gather information on becoming a Lake District*
- *Present information to residents regarding the pros and cons of becoming a Lake District*
- *Draft Lake District boundaries*
- *Gather membership support for forming a Lake District*

Continue current data collection efforts to evaluate progress

- *Continue Citizen Lake Monitoring Network data collection for total phosphorus, chlorophyll, secchi, temperature, and oxygen*

Expand data collection efforts depending on needs

- *Implement a culvert study to document phosphorus reductions*
- *Add nitrogen sampling to determine the TN:TP*
- *Implement a study to determine internal load (sediment study, bottom water samples)*
- *Collect a sediment core to determine historical water quality conditions*