

The Role of Aquatic Plants

Aquatic plants create a thriving habitat for animals.



Plant roots create networks that stabilize sediments at the water's edge.

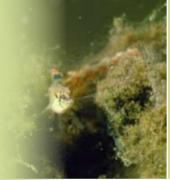


Plants are essential to the spawning success of many fish species.



Plants provide refuge for near shore animals.

Plants provide habitat for many non-game fish species that are often "invisible" to most people.



Plants photosynthesize, creating life-giving oxygen to the animals that live in the littoral zone.





Submersed plants absorb phosphorus and nitrogen over their leaf surface and through their roots, making nutrients less available for nuisance algae.



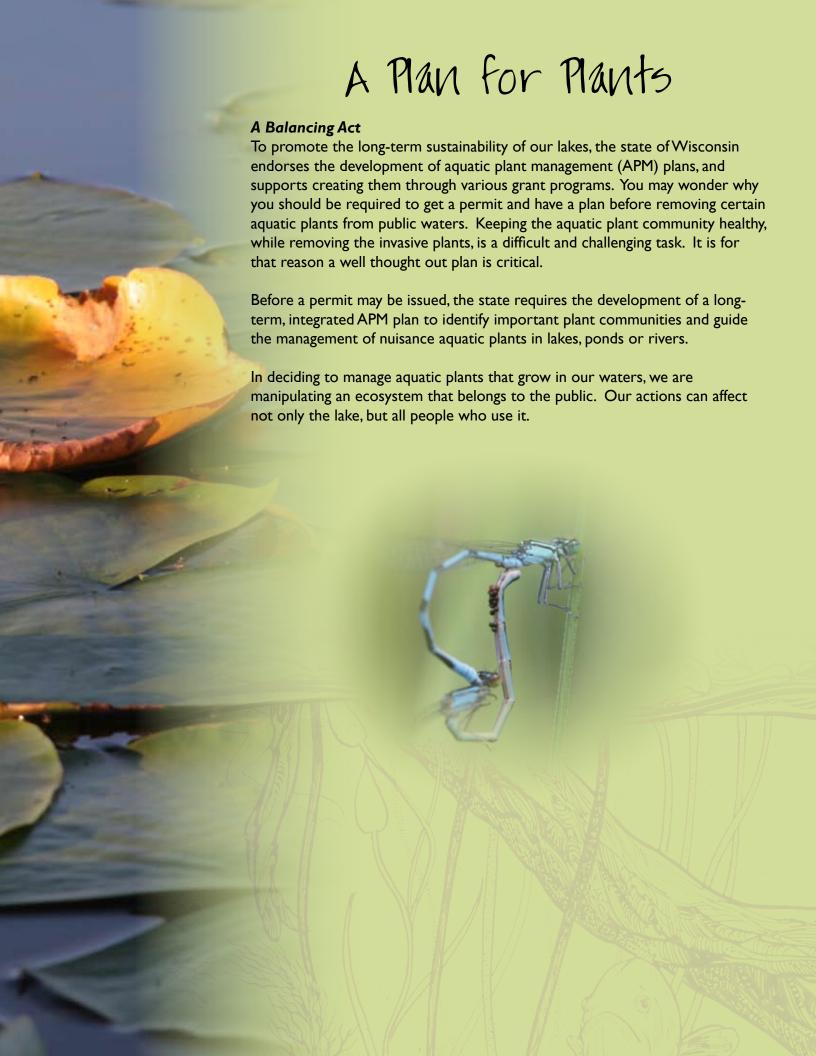
Native aquatic plants can limit aquatic invasive plant growth.

Plants, fruits and tubers provide food for mammals, waterfowl, insects and fish.



Plant beds provide cover and nesting for marsh birds, songbirds and waterfowl.





An Investment for the Future

Many lakes develop annual APM budgets that range from thousands to tens of thousands of dollars to improve recreational conditions on lakes. With such a large investment, it makes sense to have a well thought out plan to assure the money is spent wisely, and the lake and its users benefit. It is wise to create a plan that provides a framework for management into the future, with flexibility to adjust to annual changes in the plant community.

We are experiencing a rapid change in scientific efforts to understand and manage aquatic invasive plants wisely and effectively. Permit costs may seem high at the local level, but they provide only a small portion of the total cost of aquatic plant

management. The permit dollars assist in supporting Wisconsin's aquatic plant program and the specialists who work with communities to manage aquatic plants. These specialists must stay abreast of the latest research efforts to manage invasive plants, and are involved in bringing this information to the local level. Through permit fees, you're investing in your lake's future, and like any investment, it requires initial finances to promote a good return. Lake communities' support, and investment of time, talents and dollars, is fundamental to ensure that Wisconsin's fresh water lakes remain rich, diverse centers of aquatic life for generations to come.







Laws

Wisconsin recognizes that aquatic plants are an important resource, fundamental to the ecological health of our waterways. In recent years, the state passed laws that represent some of the most significant changes to the Wisconsin's aquatic plant management in decades. Section 23.24 of the Wisconsin State Statutes, relating to aquatic plants, required the Department of Natural Resources (DNR) to establish a program to "Protect and develop diverse and stable communities of aquatic plants, regulate how aquatic plants are managed, and provide education and conduct research on invasive aquatic plants." The law also allows the department to require an APM plan.

Plants on the Move

In addition to having an APM plan, all persons using our state waters need to comply with the current state rules which prohibit the transporting of aquatic invasive species on boat trailers and other equipment. Please be aware that laws are continuously being updated. Several counties have already adopted stronger ordinances which prohibit the transport of <u>any</u> aquatic plants.

Do No Harm

It is important to remember that plant communities can vary from lake to lake and from year to year. There are many techniques used for the management of aquatic plants that take these variations into consideration. Most native water plants do not need to be "managed," they do just fine with little or no human assistance. The same could be said for invasive plants that are not preventing us from using the water. One of the key principles of APM in Wisconsin is to "do no harm" to the lake ecosystem.

When Management is Used

Often, management means protecting native plants by selectively hand pulling invasive plants that are found growing among the natives. Sometimes more intensive management may be needed, such as using harvesting equipment, herbicides or biological control agents on invasive plants. These methods require permits and extensive planning.

Anyone doing APM should be aware that a permit may be needed to remove, add or control aquatic plants. Groups that may get involved in APM include lake associations, lake districts, contractors offering herbicide or harvesting services, lake management consultants, persons planning plant restoration projects, those proposing water drawdowns for plant control, or others managing, controlling or planting aquatic plants.

While limited and small scale manual removal on individual properties is generally permitted, it is widely accepted that a lake will be much better off if all plants (native and invasive) are considered on a whole lake scale. Whole lake planning is routinely accomplished by lake organizations or units of government charged with the stewardship of individual lakes.

One plant with special protection in Wisconsin is wild rice. Wild rice in public waters may not be damaged or removed, unless by special permit and review under state legal obligations to uphold treaty rights.

Wisconsin's Philosophy

The waters of Wisconsin belong to all of us. Their management becomes a balancing act between the rights and demands of the public that do not live on the water and those who own property on the water's edge. This body of law, called the Public Trust Doctrine, dates back hundreds of years in North America and thousands of years in Europe. Its basic philosophy, with respect to the ownership of waters, was adopted by the American colonies. The US Supreme Court has found that the people of each state hold the right to all their navigable waters for their common use, such as fishing, hunting, boating and the enjoyment of natural scenic beauty. In deciding to manage aquatic plants, we should keep in mind this great trust and tradition...our actions affect all people who use the waters.

The impacts of humans on our state's waters over the past five decades have caused Wisconsin to evolve a certain philosophy toward aquatic plant management. This philosophy stems from the recognition that aquatic plants have value in the ecosystem, as well as from the awareness that, sometimes, excessive growth of aquatic plants can lessen our recreational opportunities and our aesthetic enjoyment of lakes.

Balancing these sometimes competing objectives is a complicated task. The state is entrusted with the responsibility of managing the fish and wildlife resources, and their sustainable use, to benefit all Wisconsin citizens. Aquatic plants are also recognized as a natural resource to protect, manage, and use wisely. To assure we do not harm the lake ecology, it is important that plant management is undertaken as part of a long-range and holistic plan.







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