


Water Creates Lifetime Memories

Midwest Aquatic Plant Management Society







Unmanaged aquatic resources can  
destroy such memories





Imagine not being able to access clean drinking water because of harmful algal blooms.





Impacts of nuisance aquatic  
plant species

\$120 billion – economic loss and ecological damages caused by invasive species<sup>9</sup>



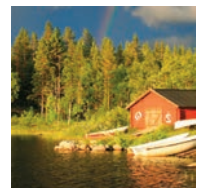
42% of Endangered Species are listed partially as a result of invasive species



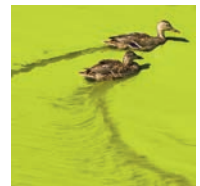
A harmful algal species, associated with an invasive plant species (hydrilla), has been implicated in the deaths of bald eagles and other waterfowl<sup>5, 11</sup>



Property values decreased 13 to 40% as a result of aquatic plant invasion<sup>4, 6, 8</sup>



Harmful algal blooms cause taste and odor problems in drinking water, force beaches to close, and can result in human and animal sickness/death<sup>7, 10</sup>



Invasive macrophytes can form dense populations that alter invertebrate and fish communities and interactions<sup>3</sup>



4,600 acres of natural habitat being lost to invasive species every day





Everyday, lake managers are working to sustain the resource we cherish.





The positive economic impact of aquatic plant management in only 13 lakes was estimated to be approximately \$60 million.<sup>1</sup>



People, science and technology are available to manage nuisance plants in our aquatic resources.

## Read **Benefits of Controlling Nuisance Aquatic Plants and Algae in the United States**

Council for Agricultural Science and Technology (CAST), 2014<sup>2</sup>

Visit [www.mapms.org](http://www.mapms.org) for more information





Before management



After management

Don't just prevent... manage invasive aquatic plants.



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[www.mapms.org](http://www.mapms.org)

### Resources

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- 3 Dibble, E.D., K.J. Killgore and S.L. Harrel. 1996. Assessment of Fish-Plant Interactions. *Amer. Fish. Soc. Symp.* 16:357-72.
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- 6 Horsch, E.J. and D.J. Lewis. 2008. The effects of aquatic invasive species on property values: Evidence from a quasi-random experiment. Staff Paper No. 530. Department of Agricultural and Applied Economics, University of Wisconsin-Madison.
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- 10 Van der Merwe, D. Sebbag, L., Neitfeld, J.T., Aubel, M.T., Foss, A., Carney, E. 2012. Investigation of a *Microcystis aeruginosa* cyanobacterial freshwater harmful algal bloom associated with acute microcystin toxicosis in a dog. *Journal of Veterinary Diagnostic Investigation* 24(4): 679-687
- 11 Wilde, S.B., Johansen, J.R., Wilde, H.D., Jiang, P., Bartelme, B., Haynie, R.S. *Aetokthonos hydrillicola* gen. et sp. nov.: Epiphytic cyanobacteria on invasive aquatic plants implicated in Avian Vacuolar Myelinopathy. 2014. *Phytolaxa* 181(5).