



The Newsletter of Aquatic Habitat Management

Winter 2015



Whether you live in the Sunshine State, the Land of 10,000 Lakes, the Land of Fruits and Nuts, or any other state you call home, it won't be long before it's time to be on the water. For most people, this means fishing, boating, swimming and water skiing; however, for Aquatic Applicators, it means treating invasive and nuisance weeds, so that all water

enthusiasts can enjoy being on their favorite lake.

We hope this issue of *Reflections* helps you get ready for the upcoming "busy" season! Our lead article focuses on UPI's recent agreement with Navico - which unites BioBase<sup>®</sup> Mapping with the UPI Treatment Tool - providing our customers with cutting-edge technology, along with easy-to-use calculation for UPI Aquatic herbicides and algicides. Also in this edition, Cody Gray will discuss the emerging and growing problem with hybrid watermilfoil - and a combination treatment that is showing promise. Finally, check out the link to our newly created [booklet that outlines weed and algae control in small lakes and ponds](#) - a helpful tool for landowners and others that are interested in making the most of their pond for fishing, recreation and aesthetics.

For those of you who are still stuck in the deep freeze of winter, hang in there! Spring is just around the corner, and we look forward to another successful water season with you. As always, we welcome your feedback, so please send your comments and suggestions to [gerald.adrian@uniphos.com](mailto:gerald.adrian@uniphos.com).

Sincerely,  
Gerald Adrian  
United Phosphorus, Inc. - USA

## UPI and Navico Partner to Offer a Ground-Breaking Aquatic Plant Mapping and Treatment Tool

*Gerald Adrian, Business Manager, Aquatics, UPI*

We all know the famous advice that success lies in using the "right tool for the job" - and when it comes to the job of controlling nuisance submersed aquatic plants, there's a powerful new tool now available for Aquatic Resource Managers that will help ensure better control and accuracy. UPI and Navico, Inc have teamed up to create an innovative **Aquatic Plant Mapping and Treatment Tool** that brings together Navico's BioBase precision aquatic mapping tool with the UPI treatment tool - eliminating the guesswork from aquatic plant bed delineations and water volume calculations for herbicide applications.

### IN THIS ISSUE

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Elite Awards



### Controlling Aquatic Weeds in Small Lakes



[View brochure.](#)

### UPCOMING EVENTS

#### **WAPMS**

March 30 - April 1  
Portland, OR

#### **APMS**

July 12 - 15  
Myrtle Beach, SC

#### **FAPMS**

October 5 - 8  
Lake Buena Vista, FL

This revolutionary combination of accurate mapping and herbicide calculations is unprecedented. Other methods of obtaining herbicide calculations rely on subjective assessments and broad averages without BioBase as a means to automatically turn sonar into full GIS plant biovolume maps complete with depth contours.

What will this exciting new offering mean to you, as an Aquatic Resource Manager? By using this cutting-edge tool, you'll capture the following benefits:

- **Superior Accuracy:** The automated cloud-based mapping system quickly creates objective contour, vegetation and bottom hardness maps that are stored in an online account. UPI Treatment Tool users can then custom-select areas of interest for precise calculations of UPI-brand aquatic herbicides.
- **Professionally-Created Reports:** Map and treatment summaries are instantly generated and available for management decisions and reporting. Think of it like an instant "cheat sheet."
- **Enhanced Record Keeping and Smoother Permitting Processes:** Because you have a tangible report, it will be much easier to maintain records on your treatment plans. You'll also be more easily prepared for your permitting processes.
- **Staying ahead of the Curve:** As more and more Aquatics Applicators begin using the tool, agencies like the Department of Natural Resources (DNR) may eventually re-set the bar in terms of what they expect in terms of professionally-generated reports.

To use the UPI Treatment Tool, Aquatic Resource Managers and Researchers log acoustic and GPS data with select Lowrance<sup>®</sup>,<sup>®</sup> and Simrad<sup>™</sup> branded sounders and chartplotters while out on the water, and then upload the sonar file to their BioBase account. The two systems work together flawlessly - to get you what you need, quickly and accurately.

So, if you're looking to save time and money - and to make your life easier with more precise plans for controlling nuisance submersed aquatic plants in your unique waterways - be sure to contact your UPI representative *TODAY* to get started.

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## Hybrid Watermilfoil: the New Craze of the Milfoil Species

*Cody Gray, Field Development Representative*



In recent years, a new milfoil "species" has become more and more prevalent in the Great Lakes and Pacific Northwest water bodies. Many who manage these waters don't even realize the presence of the new "species" until it becomes clear that something is wrong. Hybrid watermilfoil, commonly referred to as simply hybrid milfoil, is generally the suspect. Hybrid milfoil is most commonly a hybrid cross from the native, northern watermilfoil (*Myriophyllum sibiricum* Komarov), and the non-native, Eurasian watermilfoil (*M. spicatum* L.), yet hybridization from other *Myriophyllum* spp. can occur. Unfortunately, hybrid milfoil cannot be visually identified because it can take on the appearance of both parent species. The only process to correctly and positively identify a hybrid accession is genetic testing.



The first sign of hybrid milfoil's presence is the failure of commonly used and accepted herbicide applications in areas where the herbicide application was once successful. One of the most commonly used herbicide applications in the Great Lakes and Pacific Northwest regions is the use of 2,4-D to control Eurasian watermilfoil. Yet, in many of the hybrid milfoil accessions, this application is not effective. Data sets evaluating the control of hybrid milfoil accessions using 2,4-D proved effective in some accessions and very tolerant in other accessions, with the vast majority lying somewhere in the tolerant to very tolerant range. Why? Those questions have not yet been answered, but research scientists are working diligently to identify an answer. Initial data suggests that not all hybrid milfoil accessions are created equally; therefore, if you are having difficulty in controlling Eurasian watermilfoil with herbicide applications previously used with success, it is quite possible you are dealing with hybrid milfoil. To date, a combination of endothall in combination with either 2,4-D or triclopyr has shown hybrid milfoil efficacy similar to that of typical Eurasian watermilfoil treatment recommendations; however, research is ongoing to test multiple hybrid accessions across the Great Lakes and Pacific Northwest regions.

If you suspect you might be dealing with hybrid milfoil in your waterways, please contact your local UPI representative to discuss solutions.

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We want to hear from you! Please send your feedback to us at [gerald.adrian@uniphos.com](mailto:gerald.adrian@uniphos.com).