

Herbicide Resistance Stewardship in Aquatic Plant Management

The following PowerPoint presentations are prepared by the Aquatic Plant Management Society, Inc. to provide insight and guidance regarding herbicide stewardship and resistance management related to long term aquatic plant management programs that incorporate herbicide use in U.S. waters.



APMS
The Aquatic Plant Management Society

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Most aquatic plant managers agree that resistance management strategies are an increasingly important component of any long-term plant management program that employs the use of herbicides. This increased emphasis on resistance management is heightened by the fact that all of the aquatic herbicides registered with EPA since 2003 are single site of action compounds that have shown potential for resistance in terrestrial systems.

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While it is important to employ resistance management where practicable, it is also important to note that there are very few documented cases of true herbicide resistance in aquatic plant management after more than a half century's use of some compounds still applied today. It is also important to understand the relative extent of aquatic plant management compared to commercial crop management in the U.S. as well as the small number of herbicides available for aquatic plant control.

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Three Lessons describe background on aquatic plant control, considerations when selecting available herbicides, and examples of scenarios facing aquatic plant managers. Additional detail is provided in the APMS White Paper on Herbicide Resistance Stewardship in Aquatic Plant Management.

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Lesson 1: Herbicide Resistance in Aquatics and Description of Aquatic Plant Management Venues and Plant Types

Provides background information on types of aquatic plants and venues in which they are controlled and their role in shaping management strategies

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Lesson 3: Practical Examples of Situations that Challenge Traditional Herbicide Resistance Management Practices in Aquatic Sites

Reviews current management examples that incorporate different levels of resistance management and evaluates their continued applicability