### Hydrilla Early Detection Rapid Response Plan for Illinois





### Kathleen Paap Lake County Health Department



### Why be worried? Hydrilla is not in Illinois yet.



#### Hydrilla verticillata

### A "Most Wanted" Species



- Federal Noxious Weed List
- Noxious weed and/or banned in at least 17 states
- Not currently regulated by Illinois

### Important Species Characteristics

- Rapid growth
- Tolerates wide range of water quality and sediment composition
- Turions
- Tubers
- Vegetative spread





## Why It's Important to Have a Plan NOW (or yesterday?!)

- Proximity of infestations
- Expense and difficulty of eradication and control
- Ecological impacts
- Recreational water use effects



### Hydrilla Management Plan





- Statewide (though initial public outreach focus is on NE Illinois)
- Early Detection & Rapid Response

 Pools resources of public, nonprofit, and private sectors

### Early Detection: *Hydrilla Hunt!*

- General public education and outreach
- Train targeted and "vested" public audiences (*e.g.*, VLMP)
- Natural resource managers encouraged to participate
- Yields expanded monitoring and reporting
- Increased access to distribution information at regional and national levels



### **Education and Outreach**



#### Utilize existing outlets:

- Illinois EPA's Volunteer Lake Monitoring Program (VLMP)
- Illinois-Indiana Sea Grant
- Northeast Illinois Invasive Plant Partnership (NIIPP)
- River to River CWMA
- River Watch
- Illinois Lakes Management Association

### Media



- Aggressive print, radio, and TV blitz planned
- Webpages on NIIPP website linked to partner organizations

### **Education and Outreach**

Create *Hydrilla Hunt!* watch cards and posters targeted towards:

- Boaters
- Anglers
- Waterway visitors
- Water-related associations (*e.g.*, sailboat clubs, homeowner associations, etc.)



### **Training Audiences**



### ID Sheets for More Advanced Monitors

 And providing ID information to <u>YOU</u>...



#### LOOK-ALIKES:

- Hydrilla; leaves in whorls of 3 8 with tiny spines along the leaf margins, the midrib of each leaf is often reddish, *Hydrilla* produces tubers (small potato-like structures).
- Brazilian Waterweed, Egeria densa; leaves longer, in whorls of 4 - 6 (8), bushier in appearance, without tubers.
- Common Waterweed, Elodea canadensis; leaves occur in whorls of 3 around the stem (or opposite), without tubers



Common Waterweed

University of Florida Center for Aquatic and Invasive Plants



http://plants.ifas.ufl.edu/seagrant/hydcom22.jpg

### Expanding Monitoring and Reporting

- Increased number of trained monitors
- Monitors already in an existing reporting system can utilize that system (e.g., New Invaders Watch)



S New Invaders Watch ...

🔁 1975503.pdf - Adobe.

😿 Microsoft Excel - SStar

## Expanding Monitoring and Reporting







- General public, boaters, anglers, swimmers, etc. contact NIIPP via website
- Simplified initial reporting: the public emails photos (cell phone or camera)
- Team assesses photos; follows up with mailed-in samples and/or on-site visit

### Increased Access to Distribution Information

# Once verified, data will be entered into:

- New Invaders Watch database
- EDDMapS (Early Detection and Distribution Mapping System (a national repository for invasive species data housed at University of Georgia)



### **Rapid Response**

- Convene Rapid Response Team
- Obtain any needed permits or permissions
- Increase capacity to respond to invasion (financially and legally)



### Establish Response Team



- Memorandum Obligation Document (MOD) created among team members
- Establishes protocols and team members for conducting assessments
- Tiered level of response
  management/treatment
- Protocols and team for posttreatment monitoring also established

### Obtain Permits and Permissions

 Currently exploring what authorities public agencies may have in the event of an infestation being discovered (on both private and public properties)



### **Increased Capacity**



- Establishes an efficient network for communication and response coordination.
- Team member tasks clearly outlined in MOD
- Combined, multidisciplinary expertise
- Funds have been set aside for mechanical and/or chemical management

### **Current Partners**

- Chicago Botanic Garden (co-Pl)
- Northeast Illinois Invasive Plant Partnership (co-Pl)
- Lake County Health Department Lakes Management Unit (co-PI)
- Chicago Metropolitan Agency for Planning
- Illinois Department of Natural Resources
- Illinois Environmental Protection Agency
- Illinois-Indiana Sea Grant
- Illinois Wildlife Action Plan Invasive Species Campaign
- Integrated Lakes Management
- Lake County Forest Preserve District
- Loyola University
- U.S. Dept. of Agriculture Animal and Plant Health Inspection Service

# Thank you!

Kathleen M. Paap Lake County Health Department, Environmental Services kpaap@lakecountyil.gov