Invasive plant is a big problem for lakes and ponds

Brazilian Elodea in Lake County, IL

Leonard Dane Vater Quality Specialist II Environmental Services



Overview

What is Brazilian Elodea ➢Identification >What are similar species >Where does it come from \triangleright Why it is bad How does it get around >Lake County's experience ► What was/is being done



Identification

➢ Leaves

Finely toothed
Arranged in whorls of 4 – 6
1 – 3 cm long and up to 5 mm wide
Branches formed at double nodes
Small flower has 3 white petals and yellow center





Similar Species

- ➢American Elodea
 - ≻Native
 - ►Leaves
- Arranged is whorls of 3 (occasionally 4)
 6 15 mm long and 1.5 4 mm wide
 Hydrilla
 Exotic
 - ≻Toothed midrib
 - ≻Leaves
 - ≻Arranged in whorls of 5



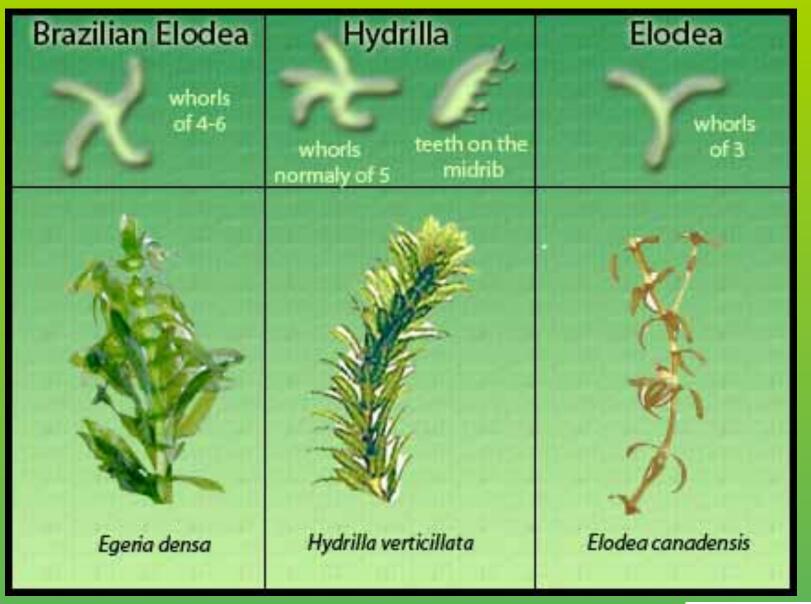


Image courtesy of www.thewildclassroom.com



Brazilian Elodea vs. American Elodea

Brazilian Elodea





American

Elodea

Where does it come from?

Native to South America
 Distributed in United States
 As Anacharis
 Aquarium/aquatic nurseries
 Spreading to Midwest lakes and streams
 Until 2008, only known in 17 counties in Midwest and Ontario



Why is it bad?

Could be the next Eurasian Watermilfoil!! >Very invasive > Decline in water quality Restrict water movement **Reduce** native plants > Interfere with navigational and recreational uses



How does it get around?

- ► Released from aquariums
- Hitch-hiker on water garden plants
- **≻**Birds
- ➢Boats/trailers
- ≻Moves down stream



Reproduces by fragmentation
 Only male flowers in U.S. = no seeds
 Must have double node



- ≻Discovered during the summer of 2008
- In detention ponds in the Village of Libertyville
- Consulting firm (Integrated Lakes Management) was doing routine pond maintenance
- ILM reported it to the New Invaders Watch Program
- Identification was confirmed by the Illinois Natural History Survey

Community Health Center





- On January 22, 2009 the LCHD-ES conducted a site visit
- Found it actively growing under 8" of snow covered ice











Coordinated with various groups ➢Village of Libertyville >Illinois Department of Natural Resources Lake County Forest Preserve District ➢Illinois/Indiana Sea Grant ► Midwest Invasive Plant Network Integrated Lakes Management Lake County Health Department – **Environmental Services**



- Drafted a press release
- Mailed letters and informational material to all residents in the area along with all of our lake contacts





- Village of Libertyville is working with an applicator to treat the ponds
 - ➢High dose Floridone
 - Monitored throughout summer
 - Conducted bump-up and spot treatments as needed
 - Continue treatment program through 2010
 - Check the pond in spring of 2011

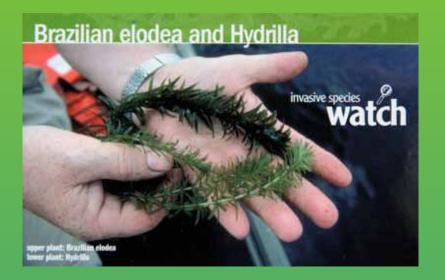


- In the summer of 2009 the LCHD-ES conducted a survey of ponds and area waterbodies
 - >Found it still in the large pond
 - ≻Not found in other lakes/ponds/streams





The Lake County Experience What's Next ≻Continue Education ≻Continue monitoring ≻Support the Village





Questions?

