

# Dane County LWRD LMPN AIS Program

Clean Boats Clean Waters

Aquatic Plant Management

Rapid Response

Common Carp Removals

Partnership with Upper Sugar River Watershed Association

*PLS Biocontrol*

*Best Practices Trifold*

*Butterfly Dock Treatment*

*Township Invasives Mapping*

*Streambank Inventories*

*TU Workdays*

*Mobile Mapping Tool*

# Invasive Species





# Dane County CBCW 2011-2022

- Watercraft Inspections
- Boater Education
- Observation/Data Entry
- Distribution of Program Materials
- **Face to Face Messaging**





# Clean Boats Clean Waters

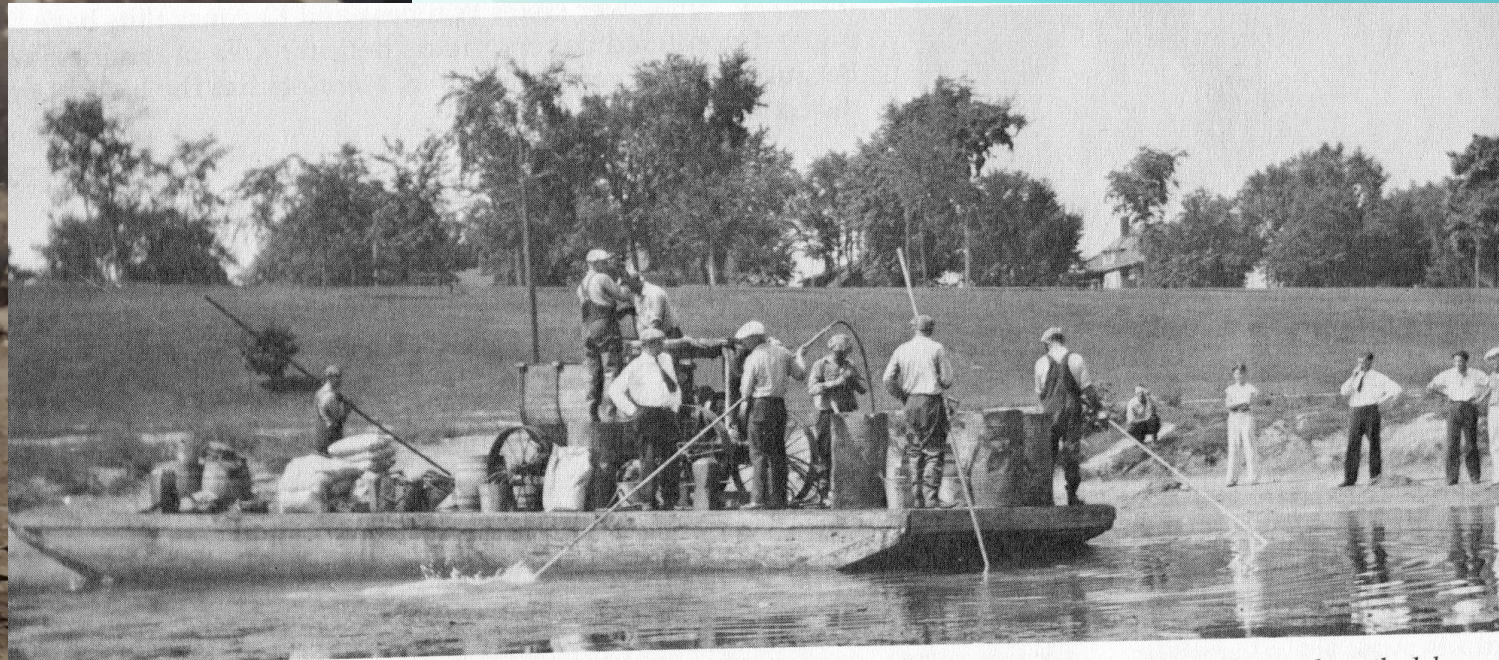
Marshall  
Warner  
Lake Farm  
Olin





# Dane County LWRD APM

Bad City Shore 8-5-25  
Just Before Spraying  
Copper Sulfate  
Lake Monona



# Dane County Aquatic Plant Management Program

*Dane County*

## AQUATIC PLANT MANAGEMENT PLANS



*Yahara River and Upper Mud Lake Looking North*

- Fish Lake/Crystal Lake
- Lake Kegonsa/Lower Mud Lake
- Lake Mendota
- Lake Monona
- Ponds
  - Jenni & Kyle Preserve Ponds
  - Tenney Park Lagoon
  - Vilas Park Lagoon
  - Warner Park Lagoon
  - Verona Quarry
- Lake Waubesa
- Lake Wingra

- Flood Mitigation (Keep Water Flowing Through the Yahara River)
- Recreation, Navigational and Beach Access
- Shallow Cuts and Filamentous Algae Control
- Special Events



# Aquatic Plant Benefits

- Support wide range of invertebrates
- Provide food and shelter for fish, reptiles, amphibians, birds and mammals
- Improve water quality
- Protect shorelines
- Aesthetics





# APM Operations Staff & Equipment

5 FTEs

24 LTEs

12 Harvesters

3 Barges

1 Transport Barge



# Barge Pick-Up

Madison  
Monona  
Westport  
FOLKS  
Lake Waubesa  
Conservation Assoc.





## No Harvest In:

- Areas less than 3' of water
- Between piers or docks of riparian owners
- Areas with known obstructions or hazards
- Areas identified as sensitive or ecologically significant (typically undeveloped shorelines)
- **Any exceptions to the above are made in consultation with the LWRD Assistant Director, Lake Operations and WDNR Fisheries and Water Quality Biologists**



# Rapid Response-Yellow Floating Heart/Butterfly Dock







# Purple Loosestrife Biocontrol





# Trifold Guide for Munis

				
<b>Wild Parsnip</b> <i>Pastinaca sativa</i>	<b>Teasels</b> <i>Dipsacus spp.</i>	<b>Purple Loosestrife</b> <i>Lythrum salicaria</i>	<b>Knotweeds</b> <i>Fallopia spp.</i>	<b>Non-native Phragmites</b> <i>Phragmites australis</i>
<b>Identifying Characteristics</b> <ul style="list-style-type: none"> <li>• Up to 5' tall ridged stems</li> <li>• Flat circular clusters of tiny yellow flowers, late spring to mid-summer</li> <li>• Leaves with 2-7 pairs of leaflets</li> </ul>	<b>Identifying Characteristics</b> <ul style="list-style-type: none"> <li>• 2-6' tall spiky stems</li> <li>• egg-shaped spiky flowerhead with tiny purple or white flowers</li> <li>• Opposite leaves clasp stem</li> </ul>	<b>Identifying Characteristics</b> <ul style="list-style-type: none"> <li>• 3-9' tall</li> <li>• Spikes of magenta flowers in mid-late summer</li> <li>• Opposite leaves 1-4" long</li> </ul>	<b>Identifying Characteristics</b> <ul style="list-style-type: none"> <li>• Arching, bamboo like stems</li> <li>• Up to 10'+ tall</li> <li>• Spade shaped leaves 4-6" + long &amp; 3-4" + wide</li> <li>• Spikes of tiny whitish flowers in late summer</li> </ul>	<b>Identifying Characteristics</b> <ul style="list-style-type: none"> <li>• 3-20' tall grass in dense stands</li> <li>• Dense feathery plumes of flowers mid-summer to fall</li> <li>• Leaves blue-green</li> </ul>
<b>Mowing Recommendation</b>  <p>90-100% effective in year of mowing when timed right after emergence of main flowerhead. Repeat mowing of resprouts if concerned about seed production. Need to repeat for 3-5 years to reduce population.</p>	<b>Mowing Recommendation</b>  <p>90-100% effective in year of mowing. Time just after flowerheads open but before seeds enlarge. Repeat mowing of resprouts if concerned about seed production. Need to repeat for 3-5 years to reduce population.</p>	<b>Mowing Recommendation</b>  <p>50-70% effective in year of mowing. To prevent seed production, mow in late summer after flowers emerge, before seeds produced. To suppress population, mow 3x/season starting in late spring and repeated before flowers form.</p>	<b>Mowing Recommendation</b>  <p>50-70% effective in year of mowing. Mow at least 4x/year, whenever plants reach 2-3' tall, repeating through fall. Need to collect cut material and burn or dispose in landfill to prevent resprouts.</p>	<b>Mowing Recommendation</b>  <p>NOT EFFECTIVE AS STAND-ALONE METHOD. May use mowing to remove biomass of dead standing stalks after herbicide treatment.</p>
<b>Chemical Recommendations for Foliar Herbicide Applications</b>				
<b>Broadcast:</b> Escort @ 0.5 oz wt/A or Opensight @ 2 fl oz/A or TerraVue @ 2.85 oz wt/A <b>Spot:</b> Escort @ 0.04 oz/gal	<b>Broadcast:</b> Escort @ 0.5 oz wt/A or Opensight @ 2 fl oz/A or TerraVue @ 2.85 oz wt/A <b>Spot:</b> Escort @ 0.04 oz/gal	<b>Broadcast:</b> Arsenal/Habitat @ 12 fl oz/A <b>Spot:</b> Arsenal/Habitat @ 0.5-1% v/v	<b>Broadcast:</b> Milestone @ 14 fl oz/A <b>Spot:</b> Milestone @ 0.4% v/v	<b>Broadcast:</b> Rodeo @ 96 fl oz/A <b>Spot:</b> Arsenal/Habitat 1-1.5% v/v or Rodeo @ 2-3 % v/v

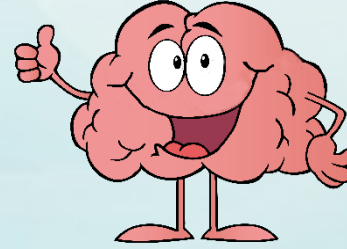


# Common Carp Removal-Indian Lake





# Points to Ponder.....



- Invasives now estimated to exceed \$150 Billion for management annually in U.S.
  - New arrivals to the Great Lakes once every 30 days!
  - May result in significant ecological regime shifts in lakes and rivers
  - Dane County is in a prime geographic location for invasive species introduction
  - Dane County is considered a “Super Spreader”
  - Watercraft sales at an all time high
  - Licenses sales locally and nationwide have risen over 25%
  - Changing climatic conditions including flooding creating more pathways and dispersal mechanisms
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- Continue CBCW program including expansion with volunteer networks
  - Work with partners to respond to new and emerging threats
  - Updating the Dane County AIS Plan
  - Maintain core conditions of LMPN funding