

Welcome to Plant Camp!



Chris Doyle, CLM

- 30+ yrs. Exp. as an Aquatic Biologist
- 17+ yrs. Exp. with Lake Management
- “Retired” in 2020
- Consultant for Naiad Consultants
- Presentations:
 - Invasive Aquatic Plants
 - Pondweeds



Emily Mayer, MS

- 12+ yrs. Exp. as an Aquatic Biologist
- MS, University of Florida
- Watershed Scientist for Raritan Headwaters
- Presentations:
 - Floating-leaf, Free floating and Other Plants
 - Milfoils and Friends



Acknowledgements

- Susan Knight, WDNR
- The Original SLM Bio Team
 - Emily Mayer, Brea Arvidson
 - Amanda Mahaney, Kate Arnao
- Cathy McGlynn, NYSDEC
- NEAPMS
- Barre Hellquist & Bob Johnson
- Heather Desko and NJWSA staff
- Previous Attendees of the NEAPMS Aquatic Plant Workshop



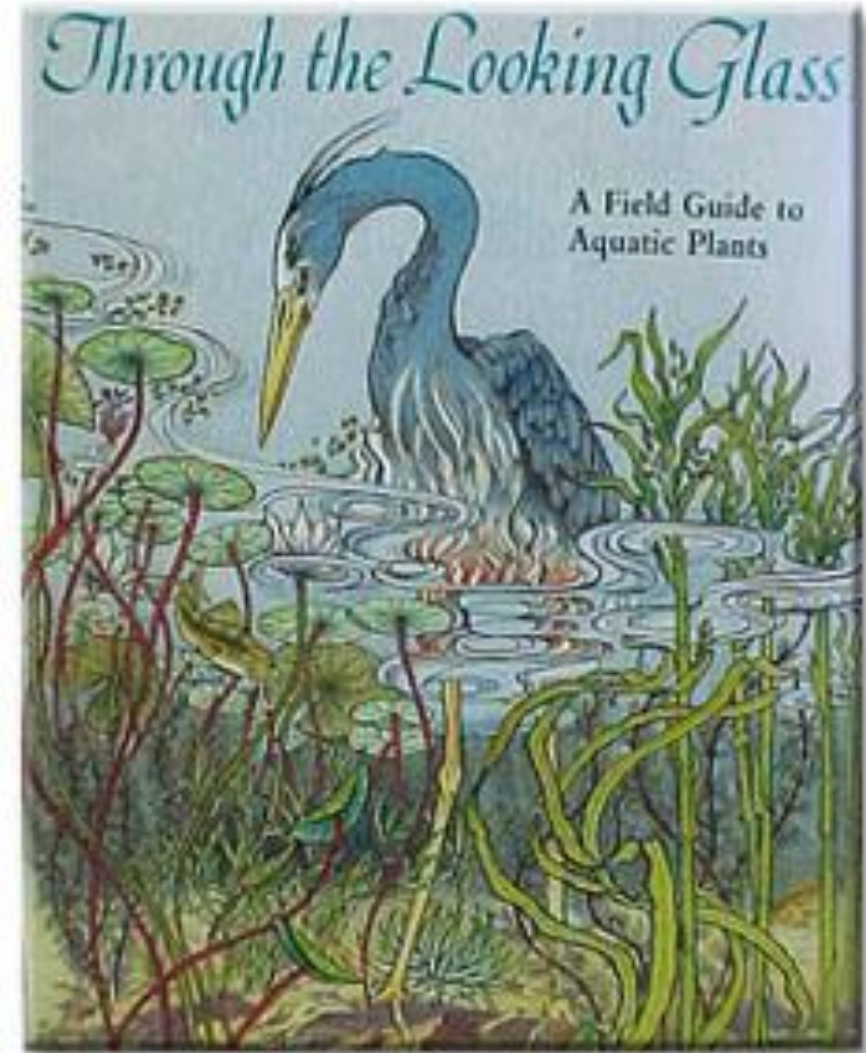
An Excellent Reference

Through the Looking Glass

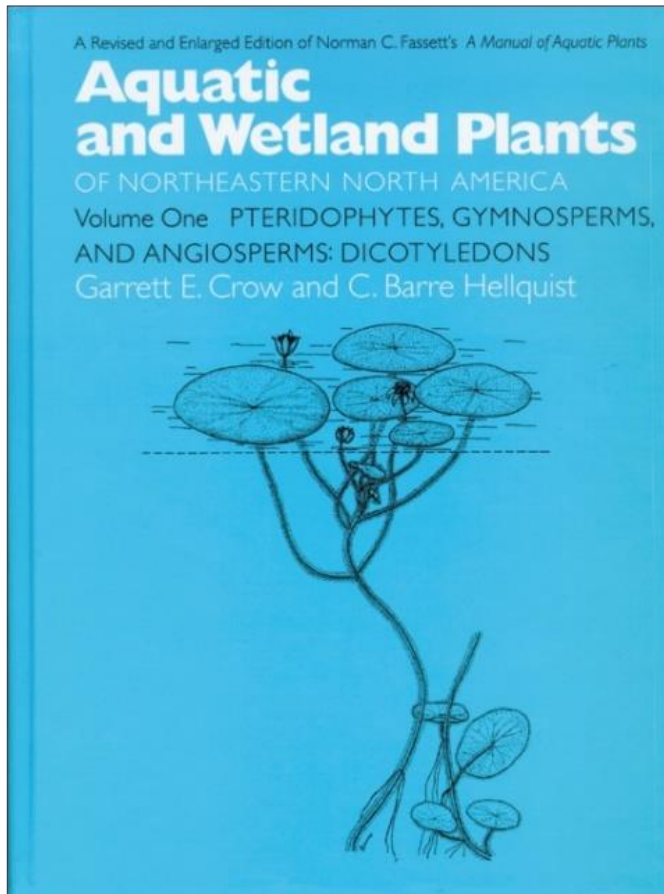
A Field Guide to Aquatic Plants

By Borman, Korth, and Temte, 1997

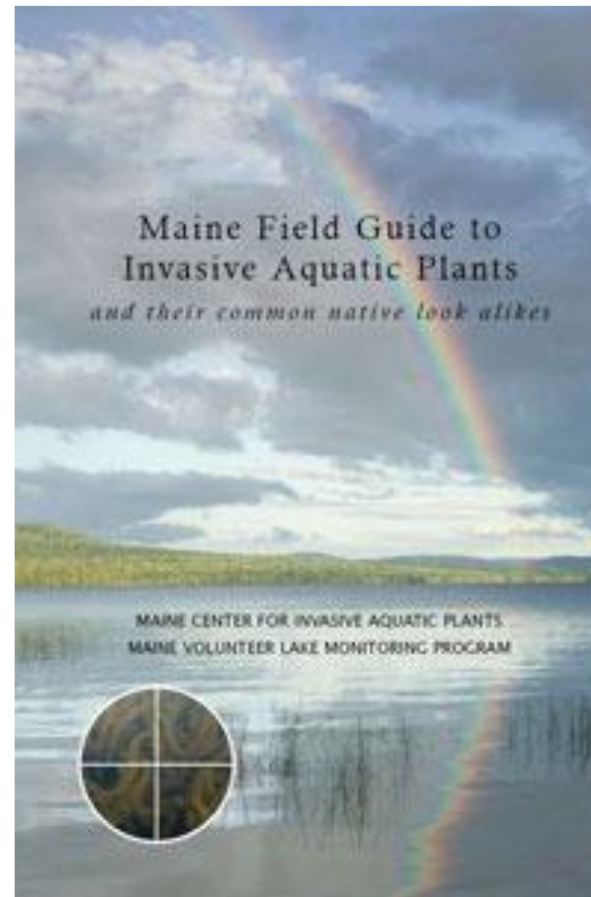
- Not a Taxonomic Key
- Excellent line drawings
- Ecology Information
- Focuses on Wisconsin Plants
 - University of WI: College of Natural Resources
- Inexpensive (~\$30)
 - <https://www.uwsp.edu/cnr-ap/UWEXLakes/Pages/resources/bookstore/TTLG.aspx>



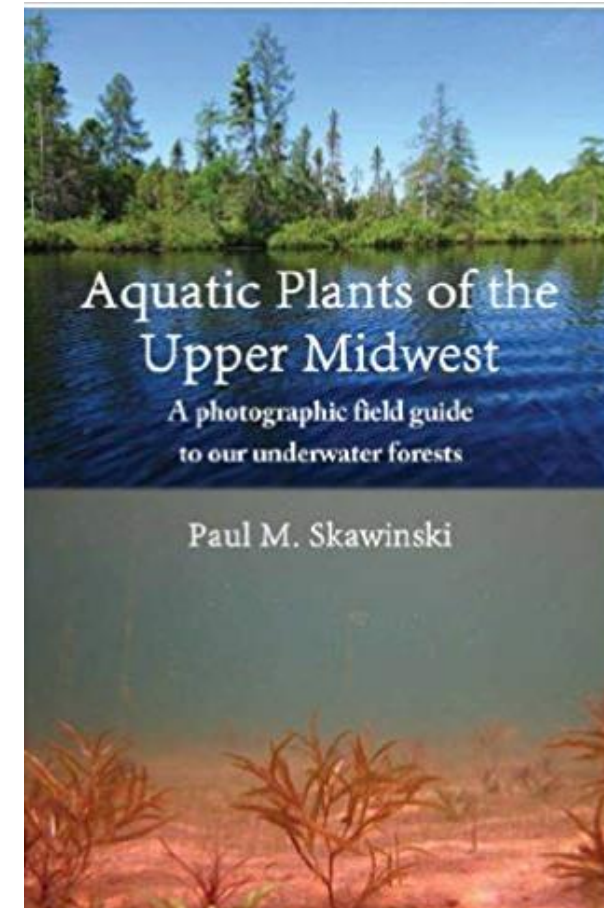
Additional References



Crow and Hellquist
Volume 1 and 2
Revision coming
2022/2023



Focuses on Invasive
Plants and native Look-
alikes



Midwest Plants
Excellent Photos

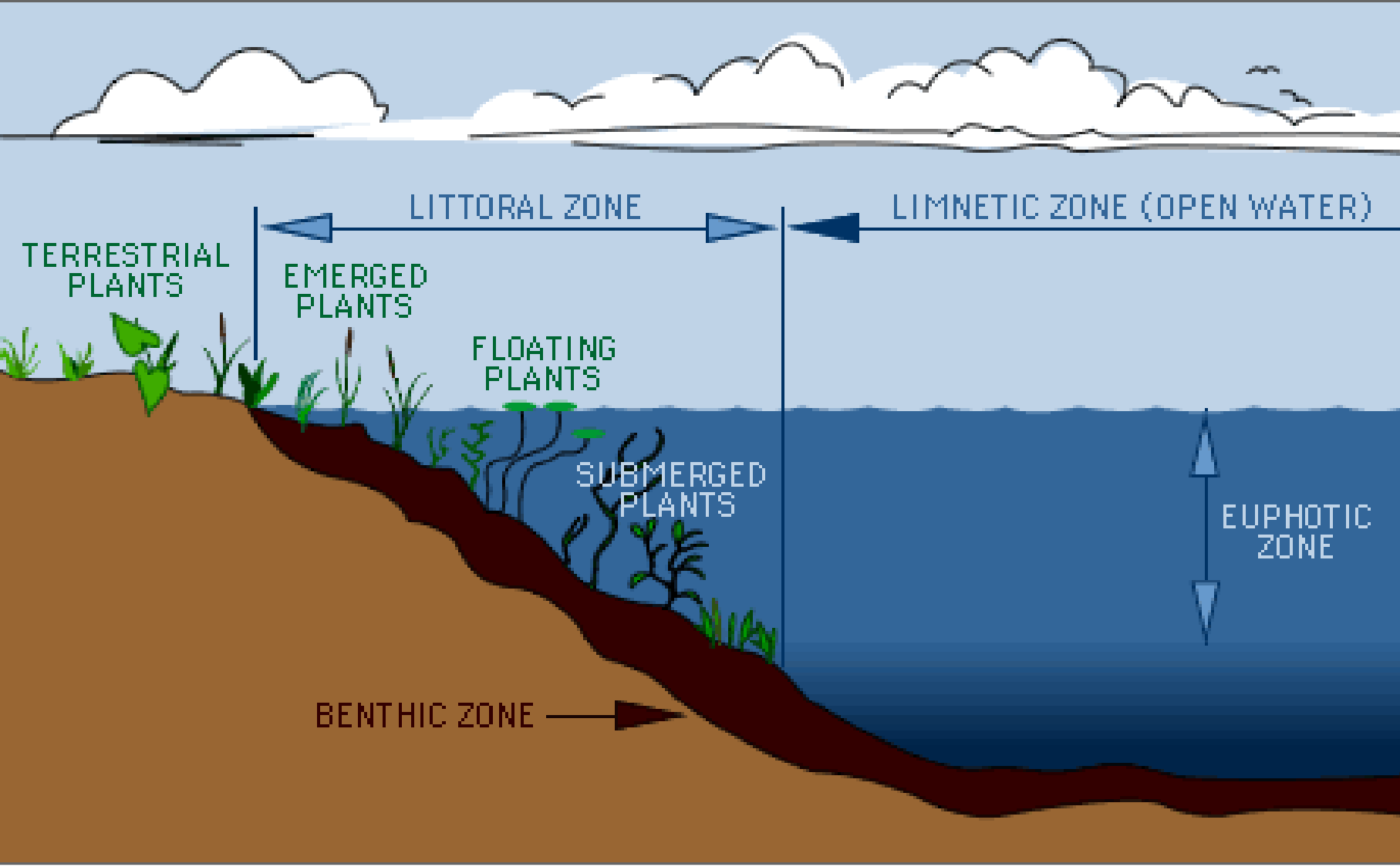


Very Useful Websites

- University of Florida: Center for Aquatic and Invasive Plants
 - <http://plants.ifas.ufl.edu/plant-profiles/>
- USDA: Plant Profiles
 - <http://plants.usda.gov>
- Go Botany: Native Plant Trust
 - <https://gobotany.nativeplanttrust.org/dkey/>
- Lake Stewards of Maine
 - <https://www.lakestewardsofmaine.org/>
- Flora of Wisconsin
 - <http://wisflora.herbarium.wisc.edu/index.php>



The Zones of a Lake



Free Floating Plants: Not limited by water depth



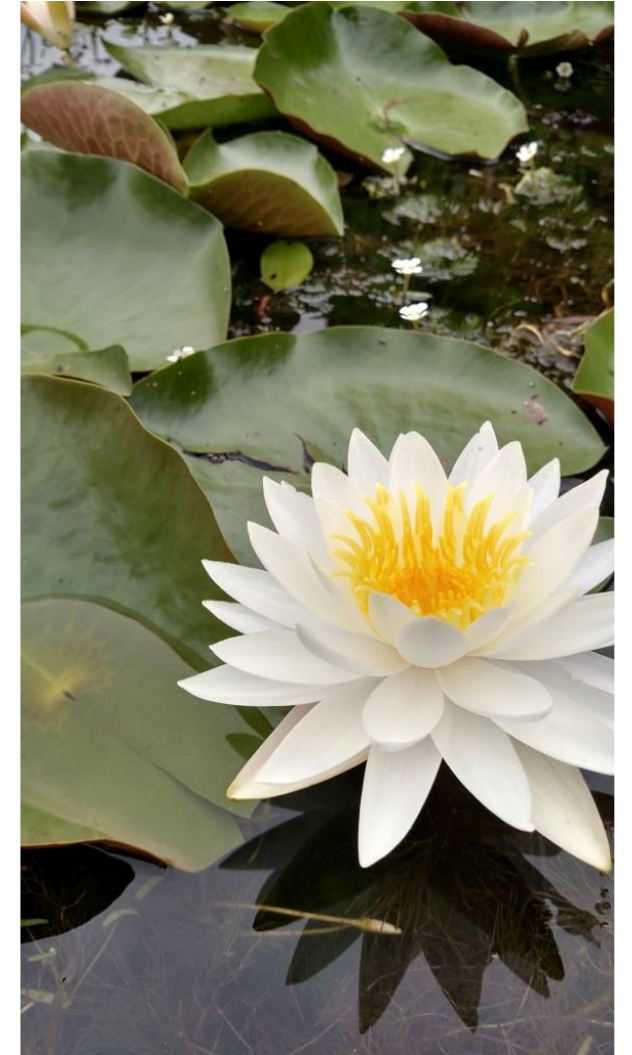
Aquatic Plant Types

- **Emergent Plants**
 - Examples: cattails, sedges, arum
- **Floating Leaf Plants**
 - Examples: water lilies, watershield
- **Free Floating Plants**
 - Examples: duckweeds, watermeal
- **Submersed Plants**
 - Examples: pondweeds, milfoils, naiads and rosette plants

Invasive Species in Red!

Native Species in Blue!

Entry in **Bold** = Defining
Characteristic



Plant Camp Schedule

2022 Plant Camp: Aquatic Plant Taxonomy Sessions

Tuesday September 13th

- 11:00 to 11:20 am: Aquatic Invasive Plants
 - Chris Doyle
- 11:20 to 11:40 am: Water Milfoils and Friends (Bladderworts, Hornworts and Naiads)
 - Emily Mayer

Wednesday September 14th

- 8:00 to 8:40 am: Pondweeds
 - Chris Doyle
- 8:40 to 9:20 am: Floating-leaf and the Isle of Misfit Plants of the Northeast
 - Emily Mayer

Note: Live Aquatic Plant Specimens will be available for viewing for the entire Plant Camp

