## Michigan Natural Features Inventory

## A Field Guide to Invasive Plants of Aquatic and Wetland Habitats for Michigan

Compiled by:

Suzan Campbell, Phyllis Higman, Brad Slaughter and Ed Schools

## Designed to fit in your back pocket!

An invaluable resource for professionals and amateurs alike, A Field Guide to Invasive Plants of Aquatic and Wetland Habitats for Michigan includes photos and descriptions of 47 invasive plant species. Funded by DNRE - Water Bureau as part of a broader research project, the field guide is now available for download from MNFI's website. Aquatic and wetland species are included, along with a number of upland species that commonly venture into wetland habitats.

With the longest freshwater coastline in the United States, over 11,000 inland lakes, and extensive wetlands, Michigan is particularly vulnerable to the impacts of invasive plants. They pose a significant threat to Michigan's aquatic and wetland resources and their impacts are wide-ranging.

Invasive plants reduce overall plant and animal diversity, destroy critical biological resources such as fish nursery habitat, simplify natural communities, reduce property values, restrict fishing, boating and other recreational opportunities, and necessitate large public and private expenditures to mitigate their spread.

The guide is organized into two major sections:

- · a pictorial key; and
- · species accounts.

Species accounts include common and scientific names, photographs, legal

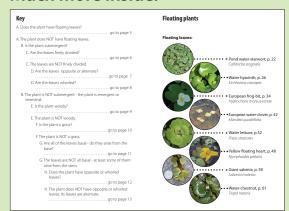
restrictions where applicable, a brief description of each plant's characteristics, habitat information, dispersal modes and the best times for survey. The guide also

includes an introductory section with monitoring guidance. Appendices include info on which natural communities each species has invaded to date, a glossary, a listing of useful online resources, selected references and an index.

Paper, full color, 91 pages, 7" x 4.5"



## Much more inside!



	species - by community	Submergent Marsh	<b>Emergent Marsh</b>	GreatLakesMarsh	Wet Meadow	Wet Paine	Fer	Shrub Swamp	Floodplain Fores	Deciduous Swan	Coniferous Swamp	Bog/Muskeg	Deciduous Forest
Common name	Scientific name Natural Communities												
Garlic mustard	Alliaria petiolata							•					
Black alder	Alnus glutinosa							•					
Glant reed	Arundo donax			•	П	ы							
Japanese barberry	Berberis thunbergil												
Flowering rush	Butomus umbellatus			•									
Carolina fanwort	Cabomba caroliniana												
Pond water-starwort	Calltriche stagnalis												
Marsh thistle	Cirsium palustre												
Swamp stonecrop	Crassula helmsii												
Brazilian water-weed	Egeria densa												
Common water-hyacinth	Eichhornia crassipes												
Autumn olive	Elaeagnus umbellata												
European fireweed	Epilobium hirsutum							•					
Glossy buckthorn	Frangula alnus					ш.							
Reed mannagrass	Glyceria maxima				П				П				
Dame's rocket	Hesperis matronalis												
Japanese hops	Humulus japonicus												
Hydrilla	Hydrilla verticillata												
European frog-bit	Hydrocharis morsus-ranae												
Indian swampweed	Hygrophila polysperma												
Omamental jewelweed	Impatiens glandulifera												
Yellow iris	Iris pseudacorus			•						٠			
African oxygen weed	Lagarosiphon major												
Moneywort	Lysimachia nummularia							•					

Glossary

addic - having a pit of less than 7; increasing the concentration of
H is loss when disorbed in water, the opposite of basic or allatine
allatine—having a pix of great met in precessing the concentration of
CH- ions when disorbed in water, the opposite of acids.

allaterate - arranged with once per note, is heaves on a term.

annual - splant that generating flowers, sets seed and dies in one
pute

author - the politic bearing part of a statem.

acquarte: growing in water.

adi "the position where a led for branch joins the stem.

bedvater - should you desire that is out of the main current of a
transport of the position where a led for branch joins the stem.

bedvater - should you desire that is out of the main current of a
bedvater - should you desire that is out of the main current of a
bedvater - should you desire that is a set on a ship to prosper stability,
the source of many invalence species, as it is propuly desire directly
from succounding waters and discharged elsewhere.

beards - when you are should be a single covery
such as a Bustemy or elsewhere.

beards - which you know how the seeds, delined from a single oway
such as a Bustemy or elsewhere.

beards - which you know how you you yours. Sovering producing
elsewhere - should be a single oway result.

beards - and part that be only in you yours. Sovering producing
elsewhere - should be should be a single oway
such as a Bustemy or your yours.

beards - and profess that the construction of wheater and forehauter
backs - against the less only to yours. Sovering producing
elsewhere - should be should be some or should be some or
flower stall grows, some may be very result.

bubble - are time who that the grows in the leaf aud.

calys - the spale, collectively.

Pictorial key Reference tables Glossary







The field guide is available online for download from MNFI's publications page at:

http://web4.msue.msu.edu/mnfi/pub/publications.cfm