# Great Lakes Aquatic Invasives TCN:

## Documenting the Occurrence through Space &Time of Aquatic Non-indigenous Fish, Mollusks, Algae, & Plants Threatening North America's Great Lakes

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2014-2017 [2018]

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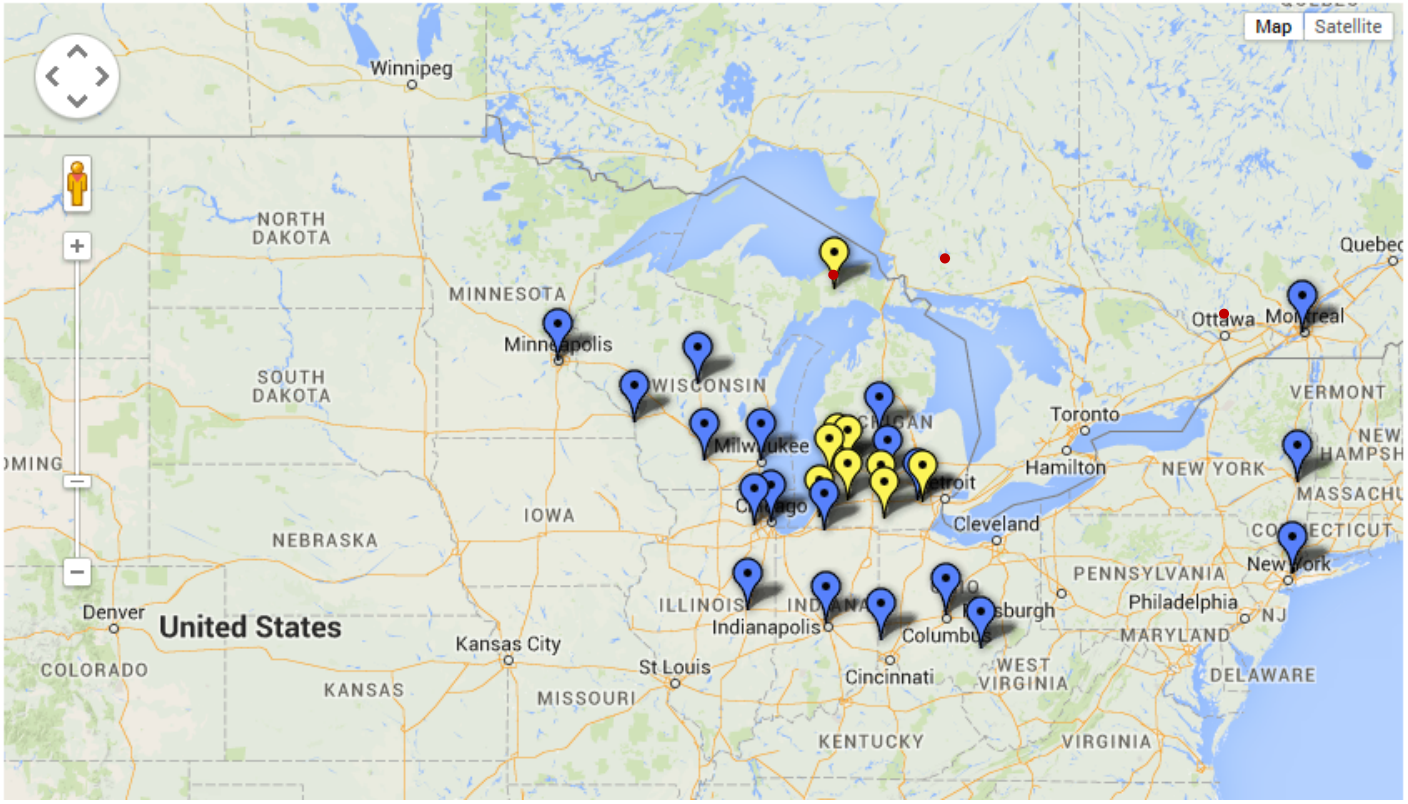
# Digitization TCN: Great Lakes Invasives- Collaborator Map




1. Univ of WI-Madison (WIS)
2. Univ of WI-Steven's Point
3. Univ of WI-Milwaukee
4. Univ of WI-LaCrosse
5. University of Minnesota
6. Michigan State University

7. Field Museum (F / FMNH)
8. University of Illinois / ILNHS
9. Morton Arboretum ***
10. University of Notre Dame
11. Butler University

12. Univ of Michigan (MICH)
13. Central Michigan University
14. MI Small Herbaria Network ++
15. Miami University
16. Ohio State University
17. Ohio University

18. NY Botanical Garden (NY)
19. New York State Museum

20. Université de Montréal /Canadensys

(21. Arizona State Univ / Symbiota)

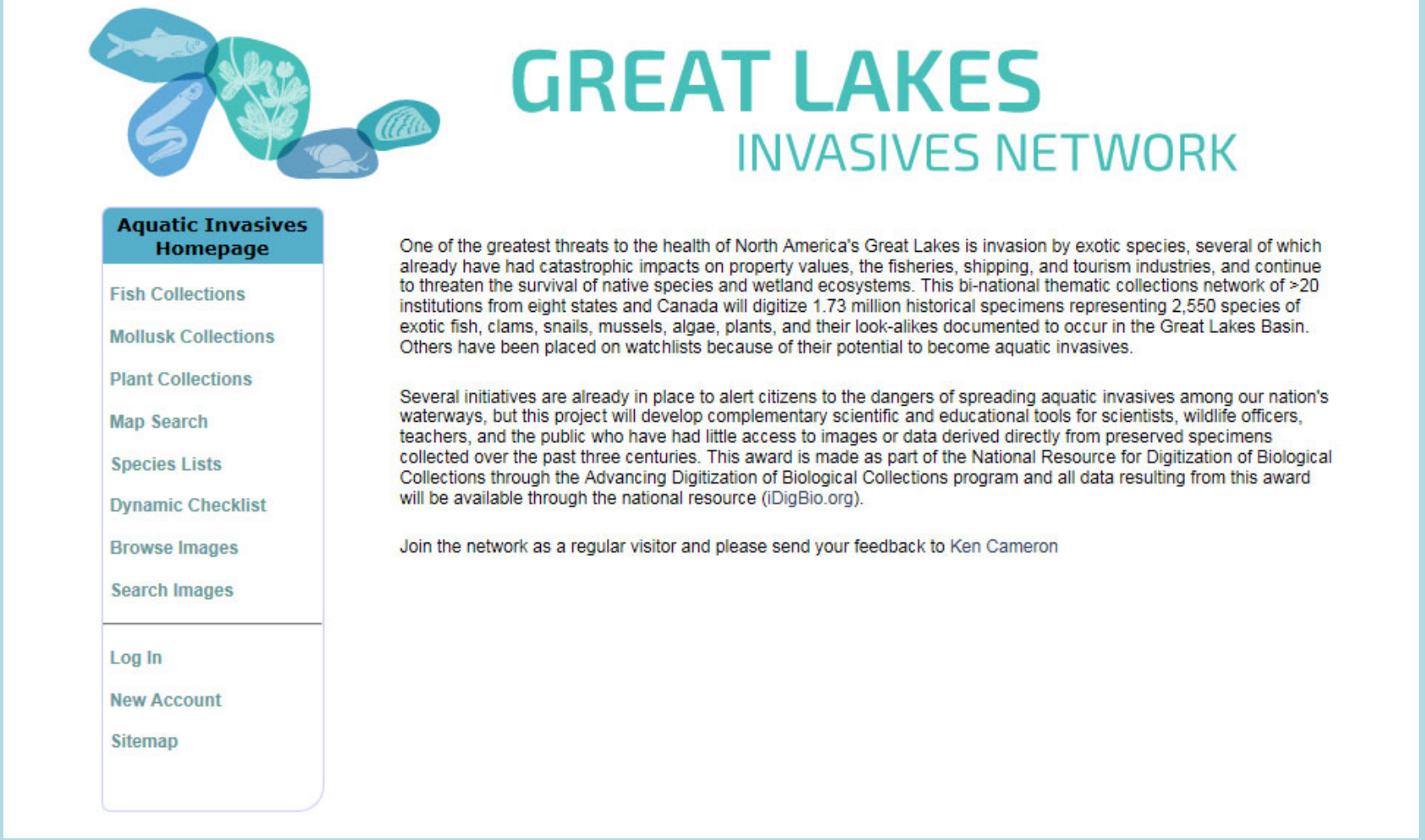
# Taxonomic Targets:


***GLANSIS maintains a Database of invasive and potentially invasive species***

***- plants:*** ***49 genera (2147 spp. of these genera in North America)***
***- fish:*** ***38 genera (290 spp.)***
***- mollusks: 14 genera (113 spp.)***

**= 2,550 Species in 101 Genera**

http://GreatLakesInvasives.org



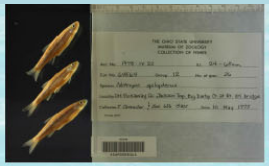
# Final Results:

| | Objectives | Results |
|---|---|---|
| **PLANTS: USA** | >637,000 sheets | 762,725 records |
| **PLANTS: Canada** | | +122,143 |
| **FISH** | >102,000 lots | 107,712 records |
| **MOLLUSKS** | > 44,000 lots | 45,991 records |

**>783,000 'specimens'**

**TOTAL RECORDS IN PORTAL: 1,038,571**









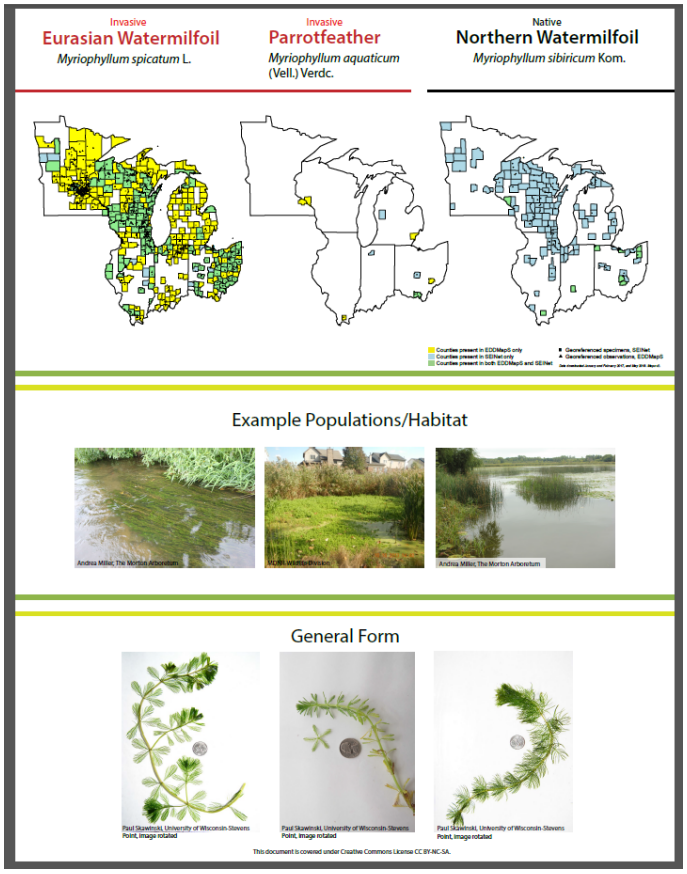


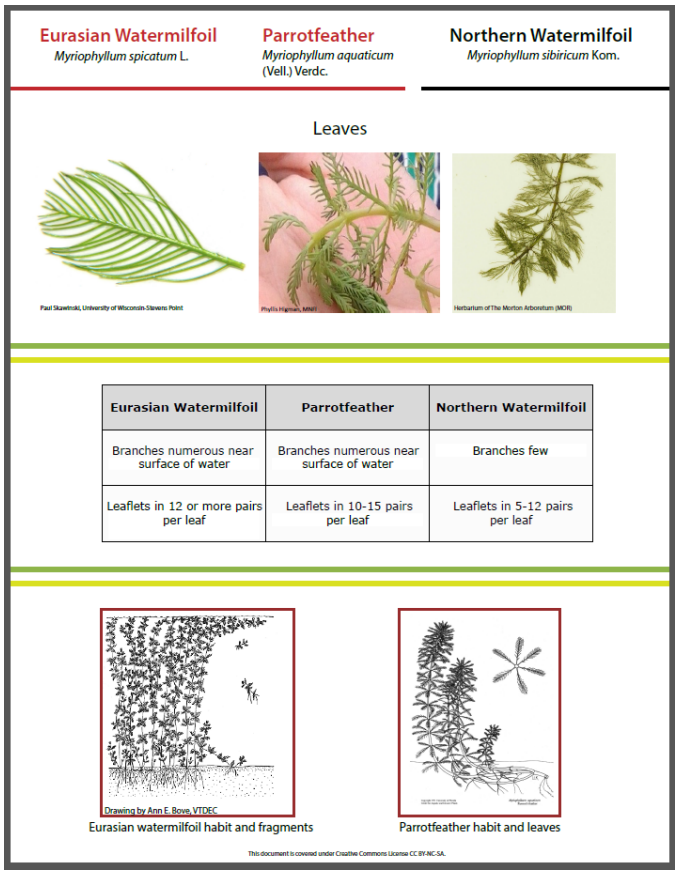

# Broader impacts . . .

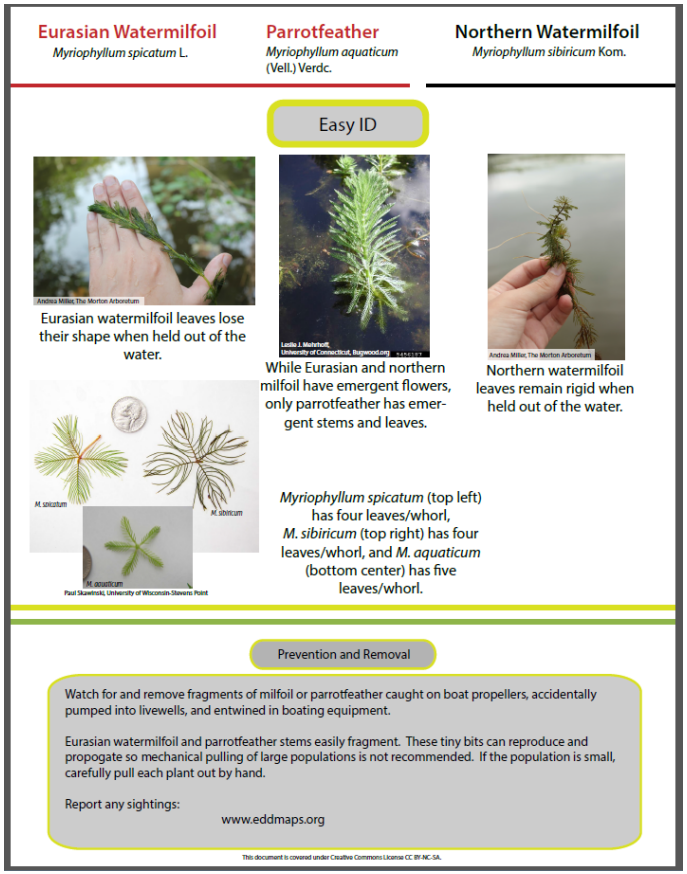
## Aquatic Invasive Plant Guide Species List *Games*

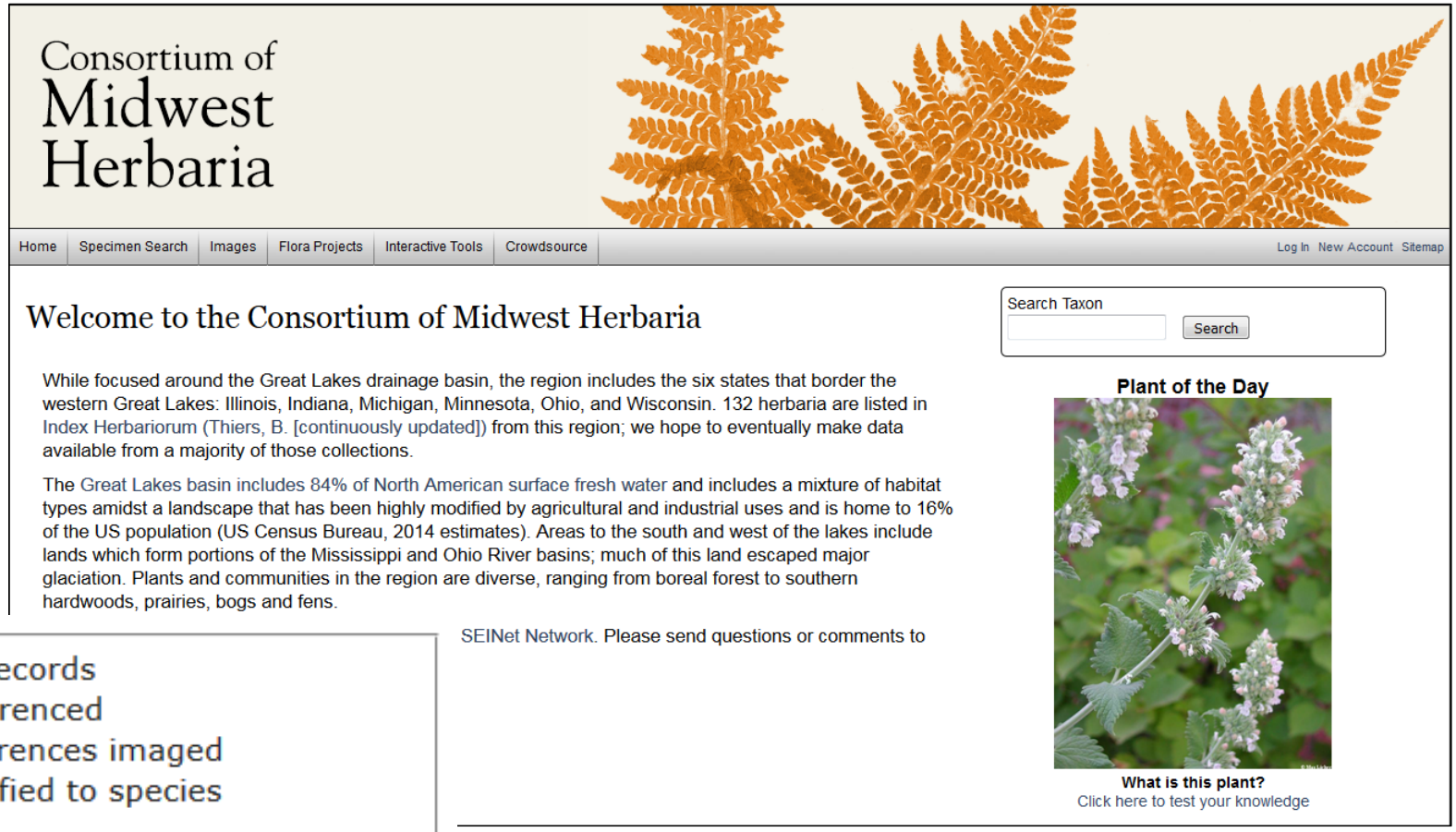
**Authors:** Andrea Miller, Lindsey Worcester, Andrew Hipp, and Kenneth Cameron
**Citation:** http://midwestherbaria.org/portal/misc/guide/AquaticInvasivePlantGuide.pdf
More Details

**Families:** 12
**Genera:** 21
**Species:** 26 (species rank)
**Total Taxa:** 26 (including subsp. and var.)






47 collections

- 1,929,668 occurrence records
- 493,018 (26%) georeferenced
- 1,314,812 (68%) occurrences imaged
- 1,799,805 (93%) identified to species
- 741 families
- 6,455 genera
- 47,846 species
- 56,279 total taxa (including subsp. and var.)

Show Statistics per Collection

http://MidwestHerbaria.org