ProcellaCOR trials on Yellow Floating Heart (Nymphoides peltata)

Ohio Invasive Plants Council Research Grant

2020 – 2022
Lake Co. Public Marina

Ohio Counties with Yellow Floating Heart
The Plan

Trail ProcellaCOR (Florpyrauxifen-benzyl)

Measure non-target impacts

Data to inform mgmt. @ Mentor Marsh

2021 population persisted

2022 unable to be relocated
The Plan

Trail ProcellaCOR (Florpyrauxifen-benzyl)

Measure non-target impacts

Data to inform mgmt. @ Mentor Marsh

2021 population persisted

2022 unable to be relocated
The Adjusted Plan

Lorain Co. Private Ponds

Measure non-target impacts

Data to inform Yellow floating heart (YFH) mgmt. at Mentor Marsh

Goal to eradicate YFH from private ponds

Experiment on the larger, 0.5-acre pond
The Adjusted Plan

Mentor Lagoons
Lorain Co. Private Ponds

Measure non-target impacts

Data to inform Yellow floating heart (YFH) mgmt. at Mentor Marsh

Goal to eradicate YFH from private ponds
Mix: 0.6 oz
ProcellaCOR

~0.2% mix

1 Prescription Dose
Unit / Acre ft

Foliar spray

Treated 1/3 at a time

Visited every 14 days
Aug. 8 – Sept. 12
Methods

100-point scale

Conservation Score 50%  Dominance 50%

Pre  55.54 → 48.7  Post
Methods

25 species total

10 species compared for effects

Focused on cover class change

1) Solitary or few
2) 0-1%
3) 1-2%
4) 2-5%
5) 5-10%
6) 10-25%
7) 25-50%
8) 50-75%
9) 75-95%
10) 95-100%
Aquatic Plant Cover Classes

- 8-Aug (pre)
- 25-Aug (post)
- 12-Sep (post)

- Ceratophyllum demersum
- Lemna minor/turionifera
- Myriophyllum sp
- Nuphar advena
- Nymphaea odorata

- Nymphoides peltata

- Pontederia cordata
- Potamogeton crispus
- Potamogeton foliosus
- Stuckenia pectinata

Cover class

10 - 15%
to
2-5%
Conclusions

Treat earlier

↑ herbicide concentration in 2023

Observed non-target on lily, milfoil
Questions?
mjw1@clevelandmetroparks.com
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Mark Warman
mjw1@clevelandmetroparks.com