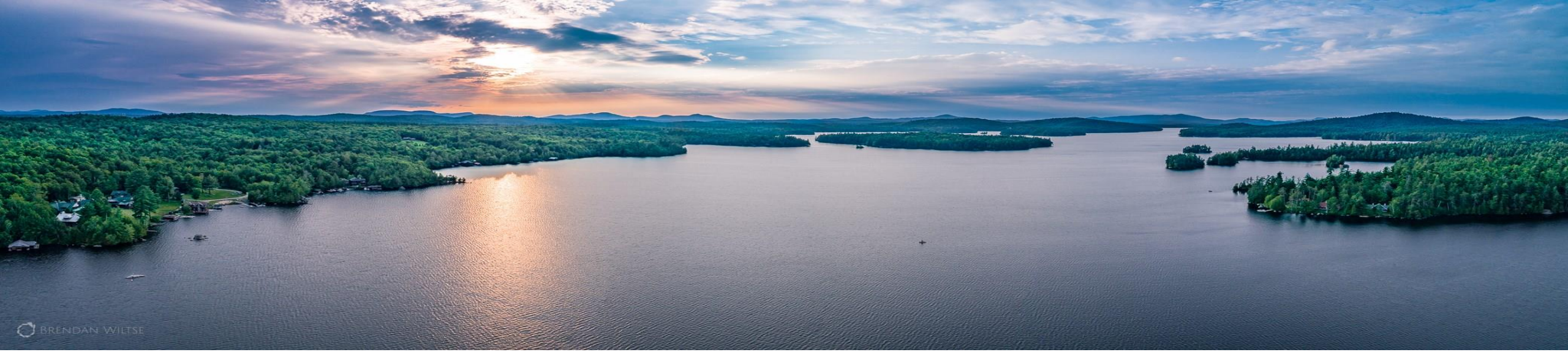


Utilizing a Rapid Response Team for Landscape Level AIS Survey & Management in the Adirondack Park

Erin Vennie-Vollrath
Aquatic Invasive Species Project Coordinator
Adirondack Park Invasive Plant Program (APIPP)

ADIRONDACK PARK

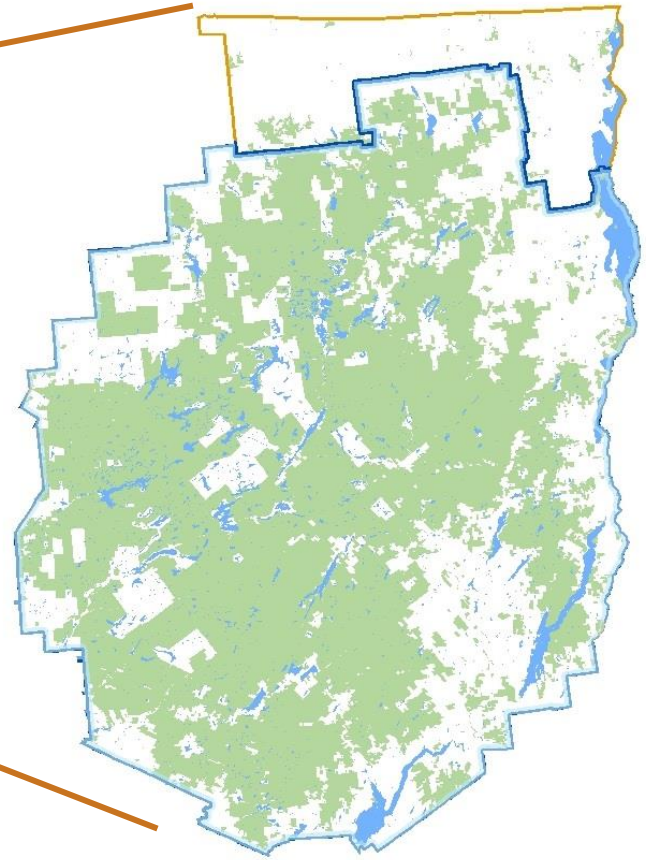


Photo Credit: Brendan Wiltse

ADIRONDACK PARK INVASIVE PLANT PROGRAM
SINCE 1998
APIPP

Principle Founding Partners:

The Nature Conservancy
Protecting nature. Preserving life.™

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

NEW YORK STATE OF OPPORTUNITY. | Adirondack Park Agency

NEW YORK STATE OF OPPORTUNITY. | Department of Transportation

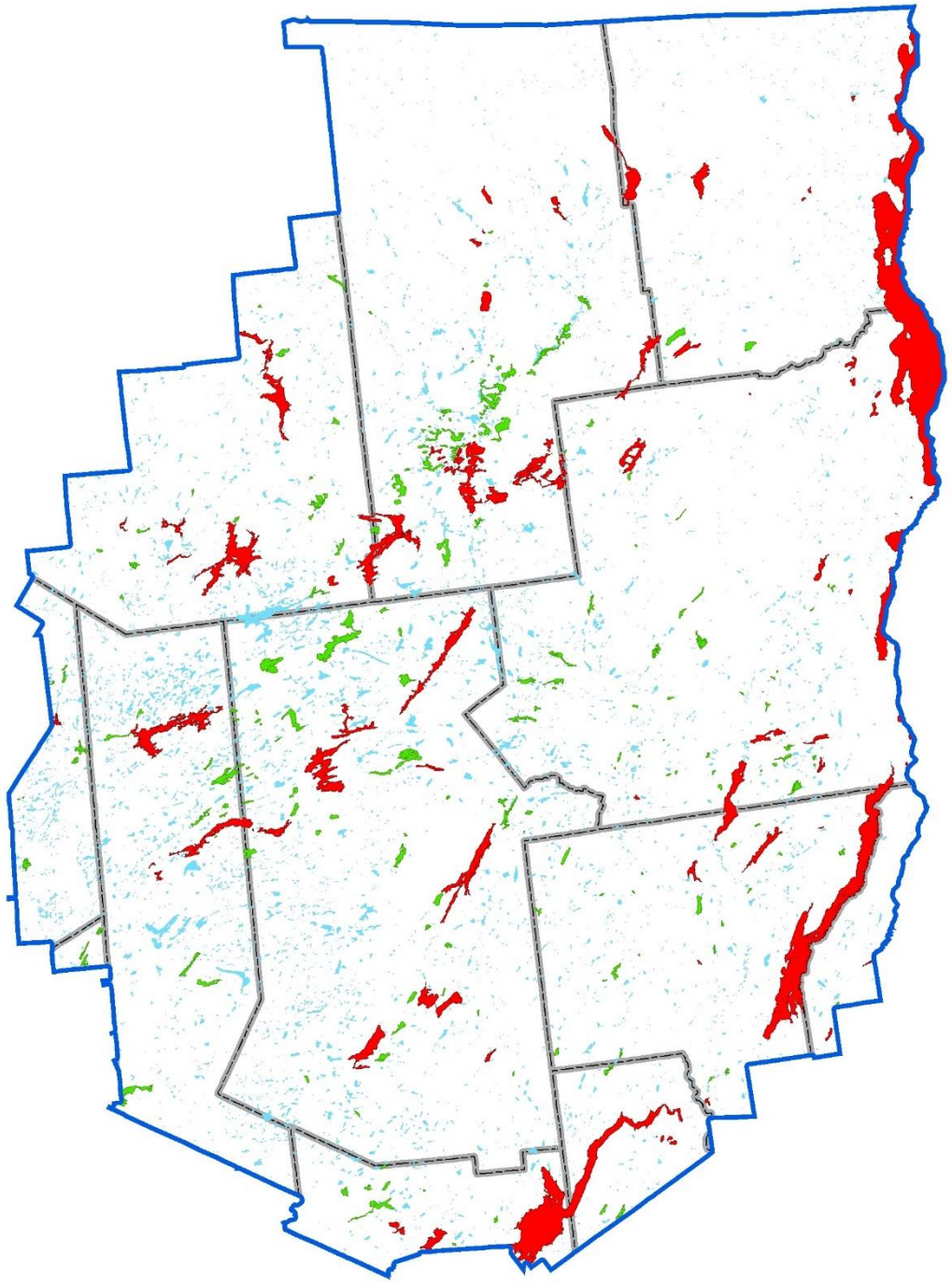
Funding:

New York State's Environmental Protection Fund

NEW YORK STATE

Mission:

To protect the Adirondacks from the negative impacts of non-native invasive species

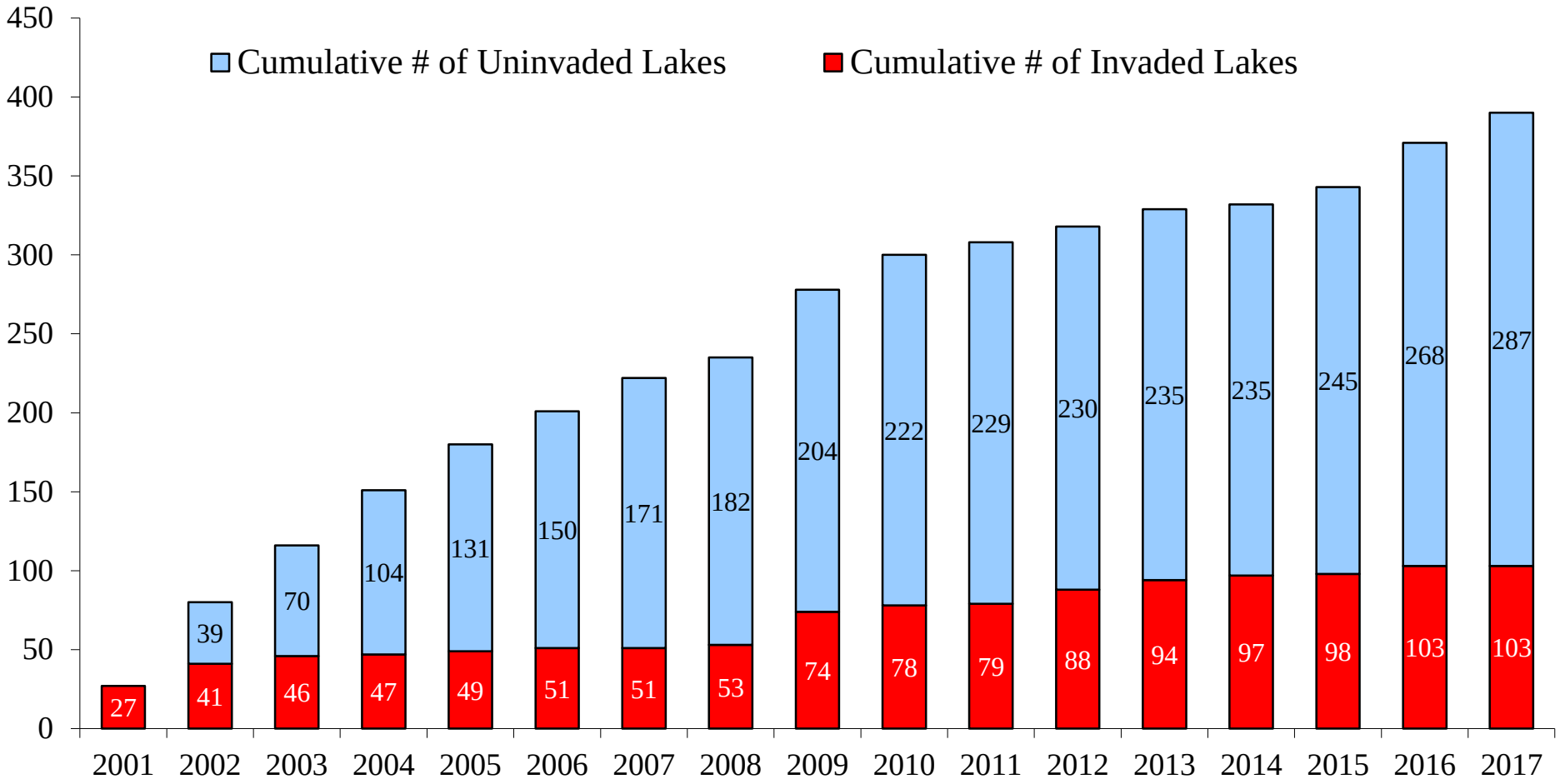


Total Number of Lakes Invaded:
103

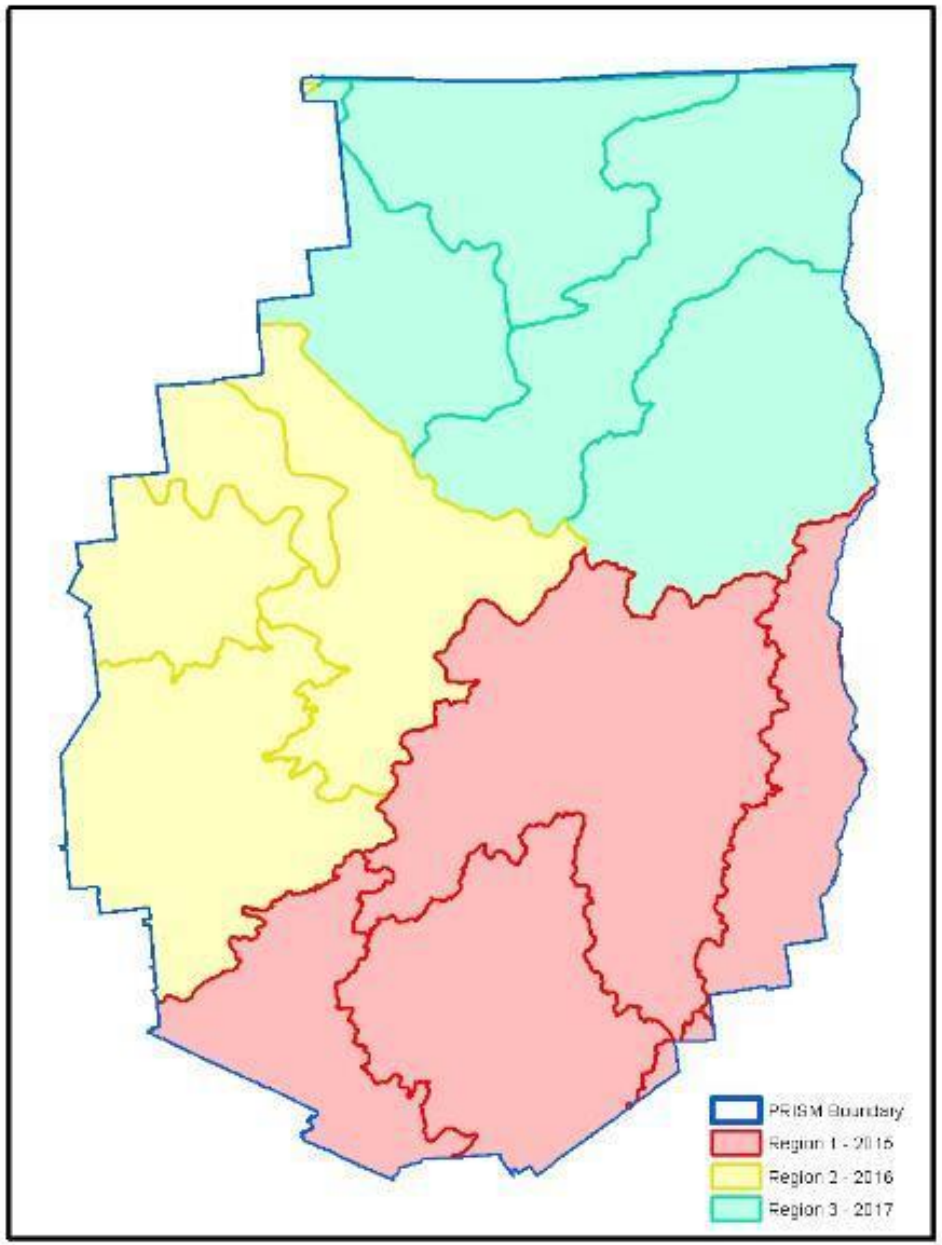
Total Number of Lakes Uninvaded:
287

71 % are AIS-free!

PROGRESS OVER TIME



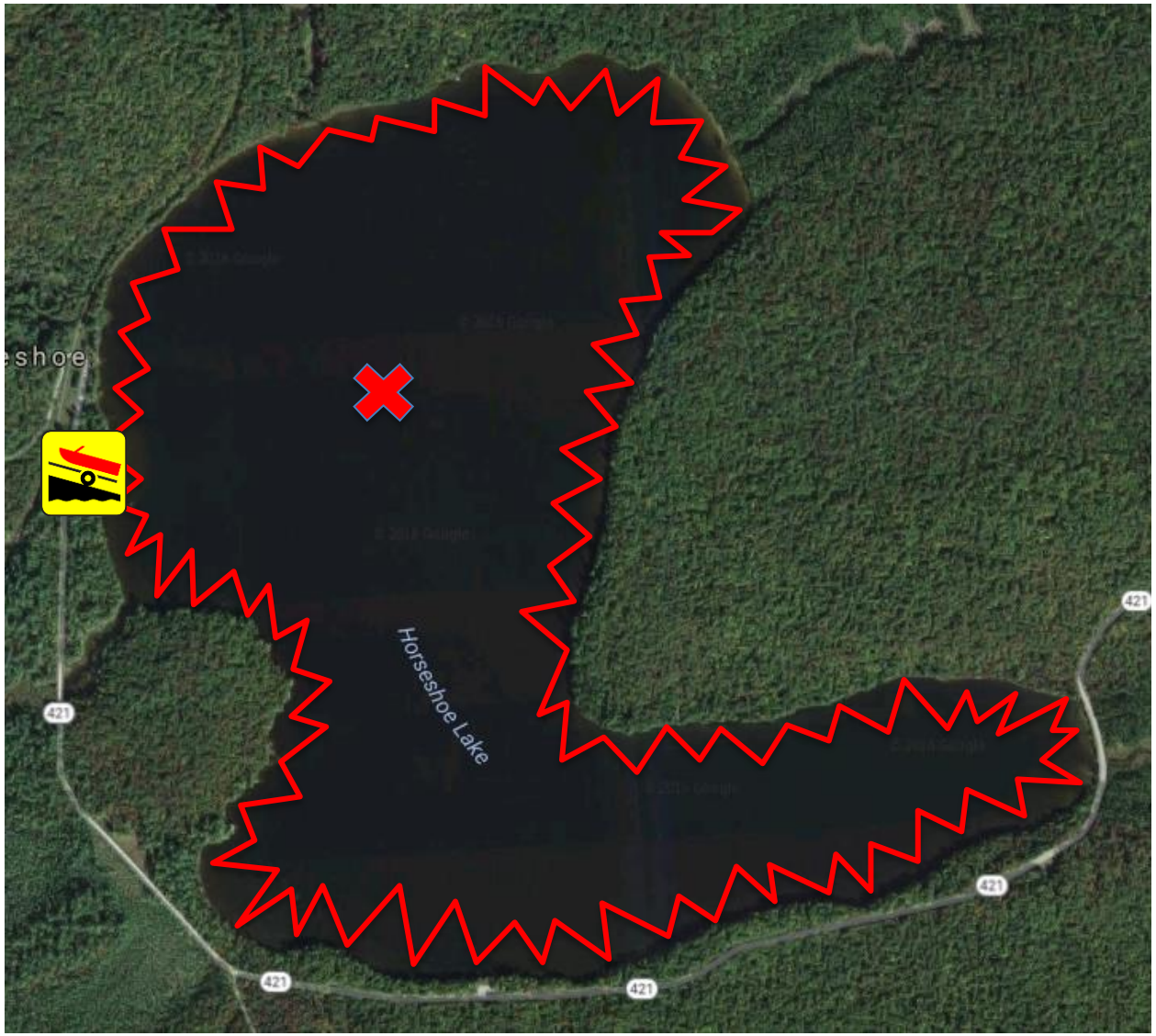
AQUATIC RESPONSE TEAM

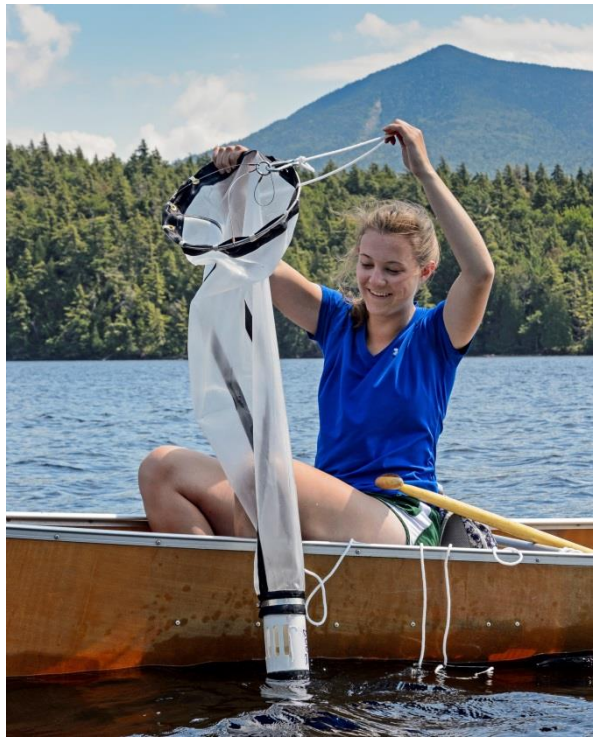


<u>Survey Prioritization Criteria:</u>

- Public access
- Never monitored for AIS
- Not monitored in last 3 years
- “Vulnerable Lakes”

SURVEY PROTOCOL





Horseshoe lake
Aquatic Plant Survey 2016

Aquatic Plant Beds | Invaded Beds | Open Water

Roads | Hand Launch

County: St. Lawrence | AIS Observed: Variable leaf milfoil, Myriophyllum heterophyllum

Town: Piercefield | Species Richness: 19

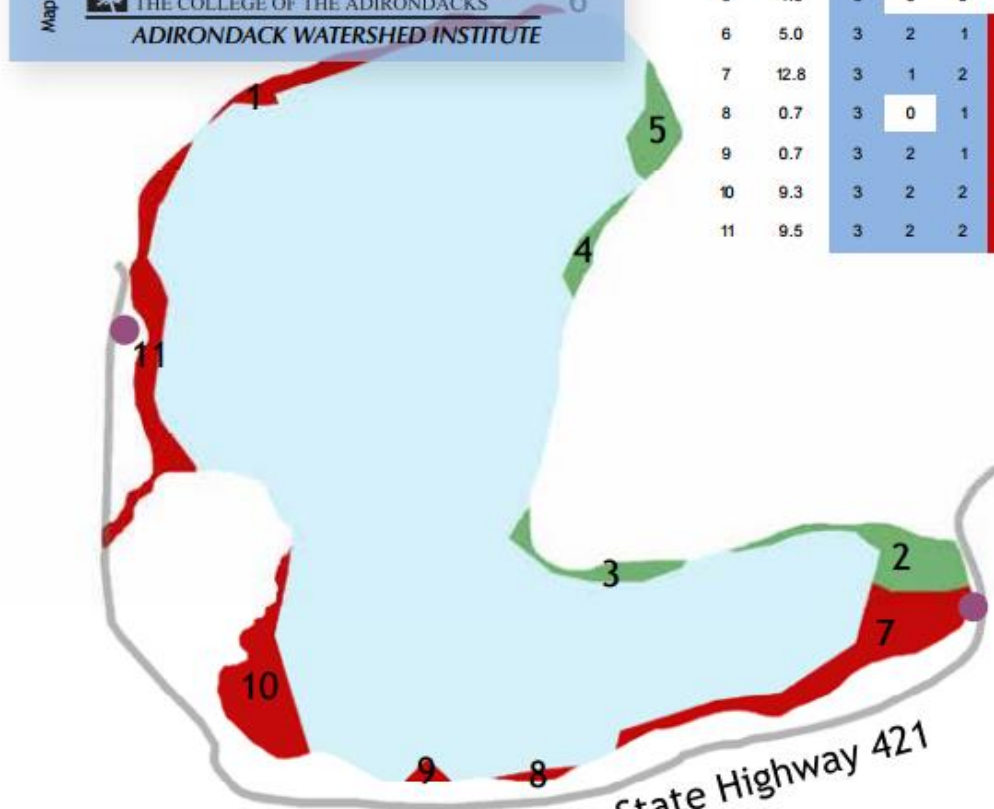
Bed Area (acres): 54.3 | Lake Area (acres): 397.5

Map by: Paul Smith's College, THE COLLEGE OF THE ADIRONDACKS, ADIRONDACK WATERSHED INSTITUTE

Bed ID	Acres	Pipewort *Eriocaulon sp.*	Large leaf pondweed *Potamogeton amplifolius*	Spadderdock *Nuphar variegata*	Variable leaf milfoil *Myriophyllum heterophyllum*	Grassy arrowhead *Sagittaria graminea*	Watershield *Brasenia schreberi*	Water lobelia *Lobelia dortmanna*	Small pondweed *Potamogeton pusillus*	Swollen bladderwort *Utricularia inflata*	Nitella algae *Nitella sp.*	Bur reed *Sparganium sp.*	Ribbon leaf pondweed *Potamogeton epihydrus*	Quillwort *Isoetes sp.*	Purple bladderwort *Utricularia purpurea*	Floating leaf pondweed *Potamogeton natans*	White water lily *Nymphaea odorata*	Little floating heart *Nymphoides cordata*	Slender watermilfoil *Myriophyllum tenellum*	Lavender bladderwort *Utricularia resupinata*
1	0.9	2	2	0	3	0	0	2	0	1	0	2	0	0	0	3	0	0	0	0
2	7.0	4	3	4	0	0	3	0	0	0	0	3	0	0	2	0	0	0	0	0
3	2.9	4	2	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0
4	1.8	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0
5	4.0	3	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1
6	5.0	3	2	1	3	2	1	0	0	0	0	2	0	0	0	0	0	0	0	0
7	12.8	3	1	2	3	3	0	1	2	2	1	0	0	2	0	0	0	0	0	0
8	0.7	3	0	1	3	3	1	2	0	0	1	0	0	0	0	0	0	0	0	0
9	0.7	3	2	1	4	3	0	0	0	2	0	0	1	0	0	0	0	1	0	0
10	9.3	3	2	2	4	3	3	2	2	4	0	0	2	2	0	0	2	0	1	0
11	9.5	3	2	2	4	2	3	2	2	3	1	1	2	1	1	3	0	0	0	0

0 Absent | 1 Rare (< 5%) | 2 Occasional (6 to 15%)

3 Present (16 to 25%) | 4 Common (26 to 50%) | 5 Abundant (> 50%)



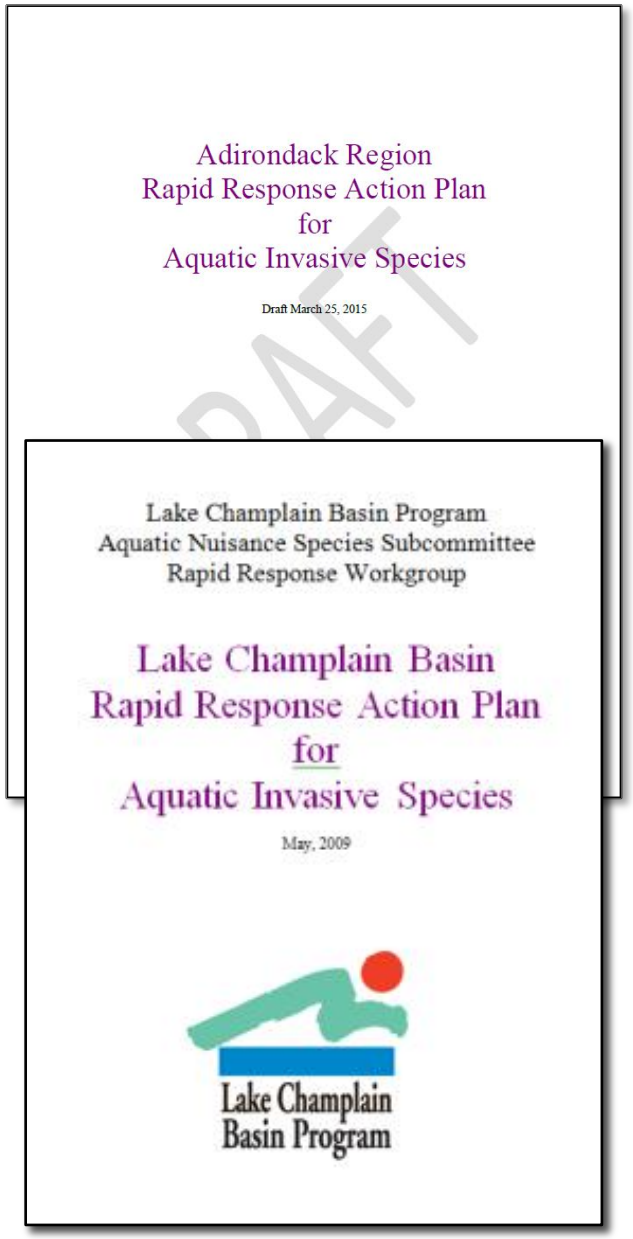
0 0.25 0.5 1 Mile

MANAGEMENT STRATEGIES

Goal 1: Elimination

Goal 2: Reduce Risk of Spread

PLANS, TOOLS & PERMITTING



INVASIVE PLANT MANAGEMENT
IPMDAT
DECISION ANALYSIS TOOL

- PROJECT BACKGROUND
- STRATEGY SELECTION
- STRATEGY ANALYSIS
- FINANCIAL ANALYSIS
- SUMMARY

The Nature Conservancy
Protecting nature. Preserving life.™
nature.org

iMapInvasives
Sharing information for strategic management

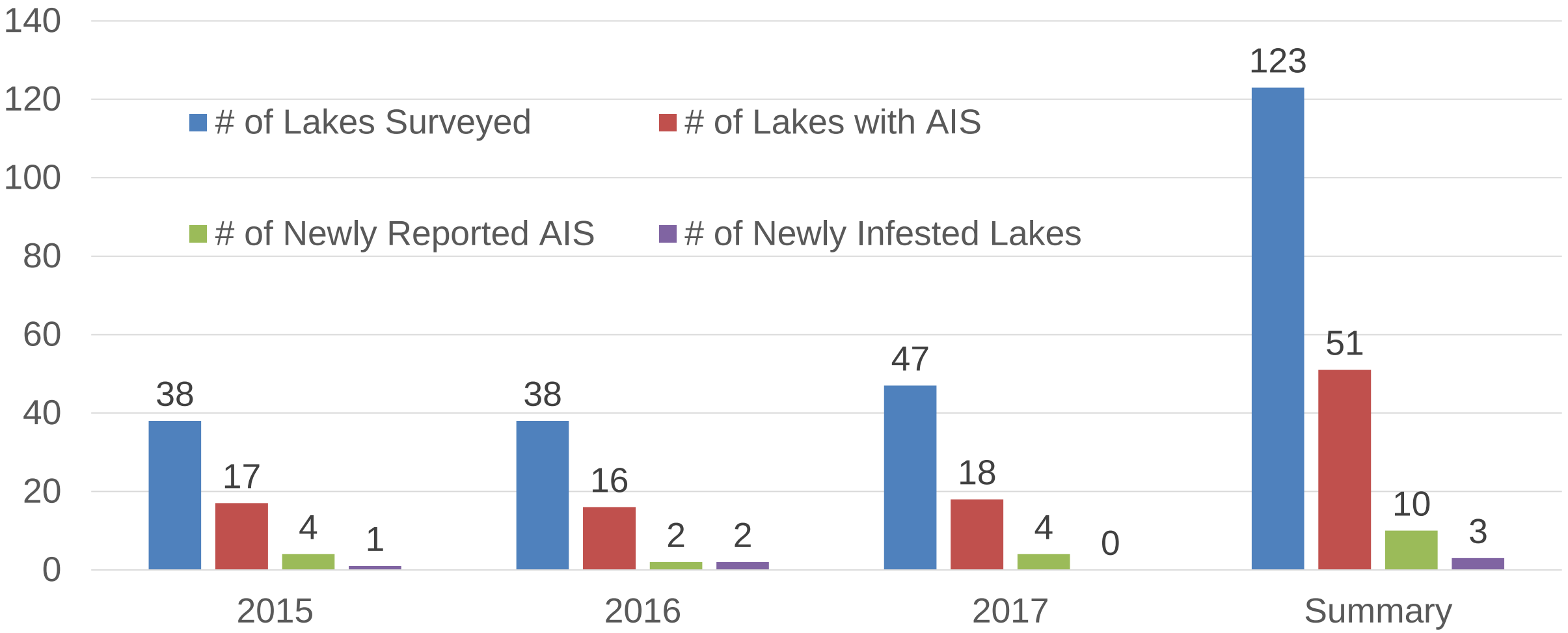
<u>Adirondack Park Agency's General Permit</u>:

AIS Rapid Response Management or Containment Using Benthic Barriers and Hand Harvesting Techniques

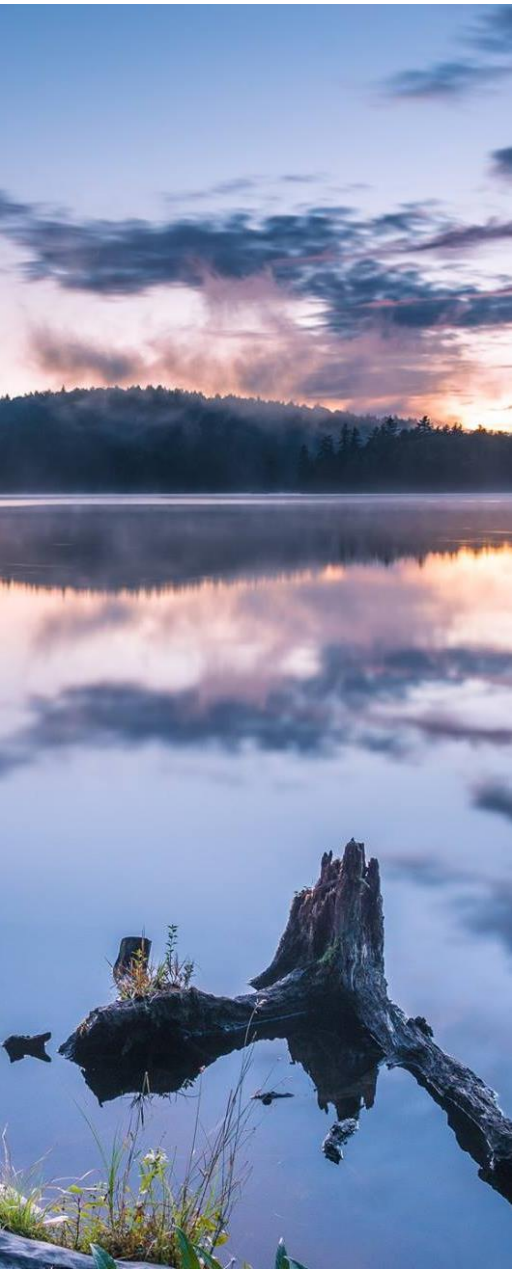
Photo Credit: AWI-PSC

Photo Credit: AWI-PSC

RESULTS


140
120
100
80
60
40
20
0
# of Lakes Surveyed
# of Lakes with AIS
# of Newly Reported AIS
# of Newly Infested Lakes
38
17
4
1
38
16
2
2
47
18
4
0
123
51
10
3
2015
2016
2017
Summary

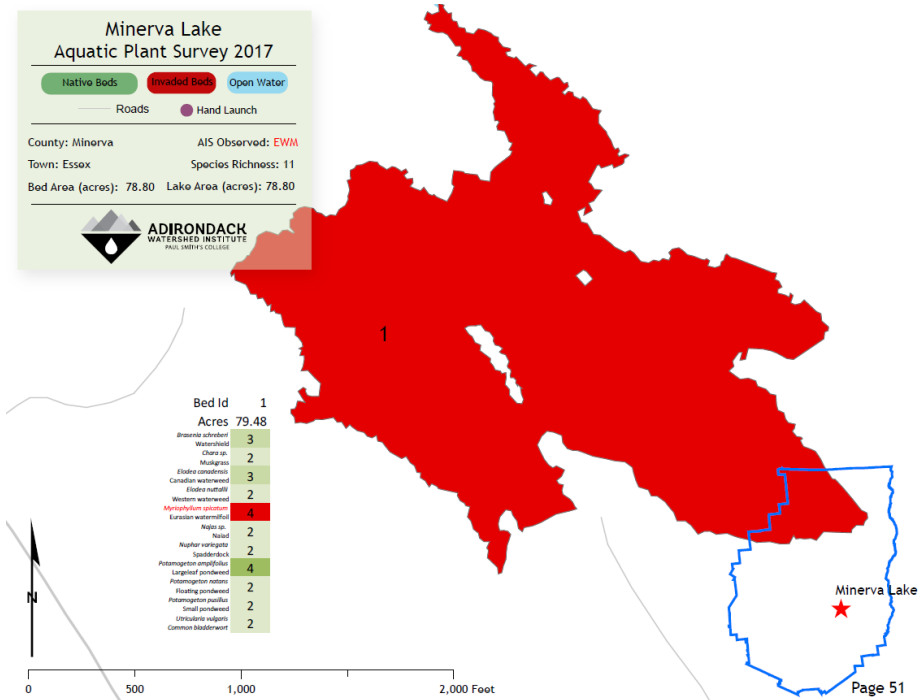
LESSONS LEARNED



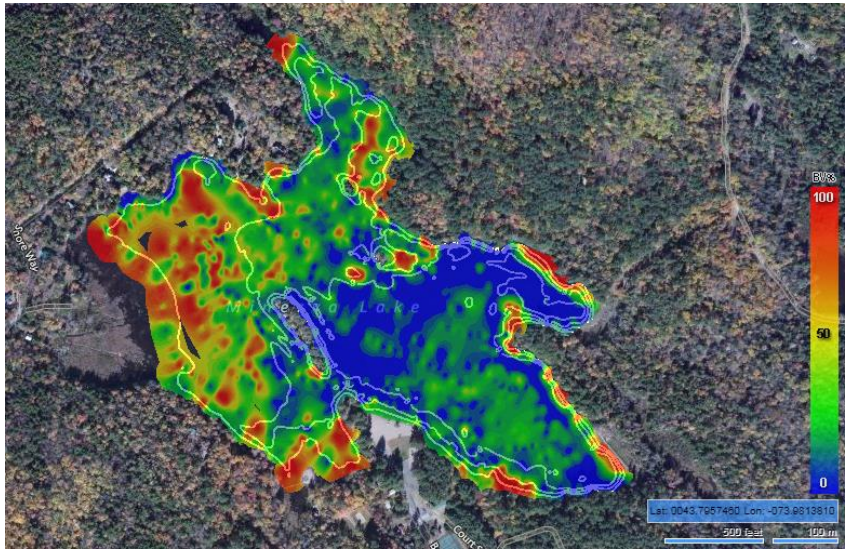
- Limited opportunities for response
- Clear about priorities
- Need to be flexible/adaptable
- Communication with Lake Associations
- Incorporate more E&O

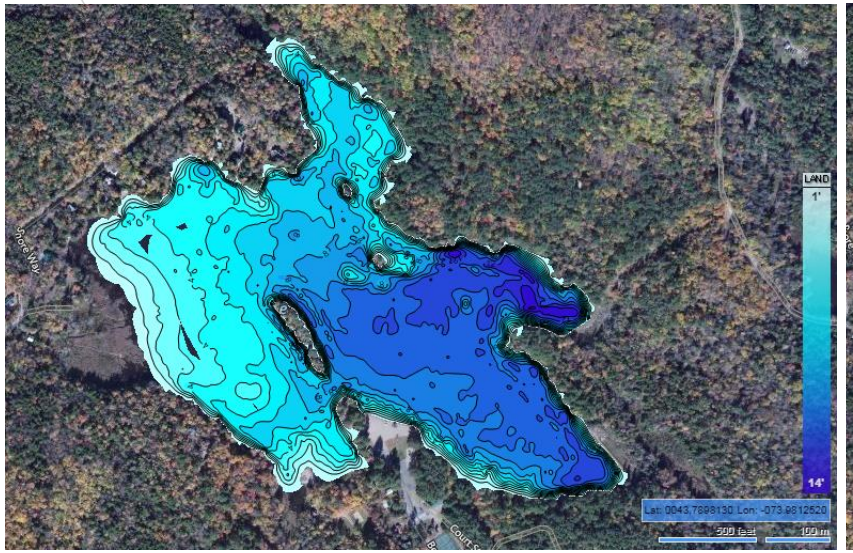
Photo credit: Brendan Wiltse

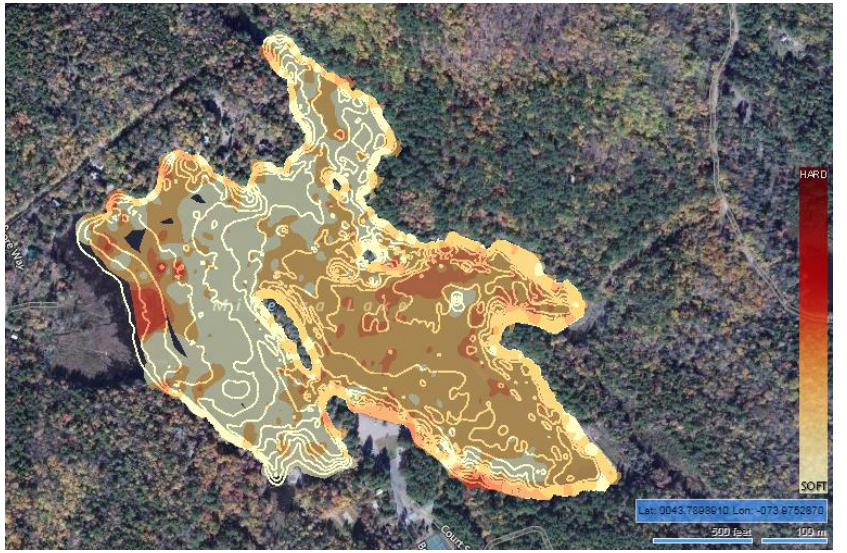
INNOVATIONS



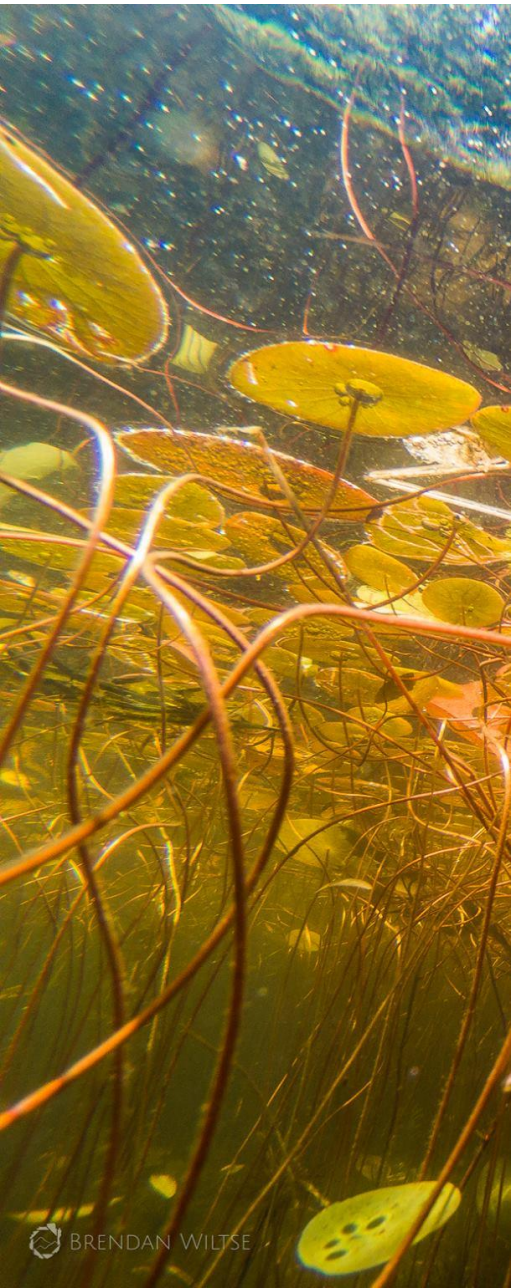
BIOBASE by CMP







THANK YOU!



Dan Kelting, Sean Regalado and teams

ADIRONDACK WATERSHED INSTITUTE
PAUL SMITH'S COLLEGE

Leigh Walrath

NEW YORK STATE OF OPPORTUNITY. | Adirondack Park Agency

Lance Durfey, Matt Walters, Cathy McGlynn, Willow Eyres

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

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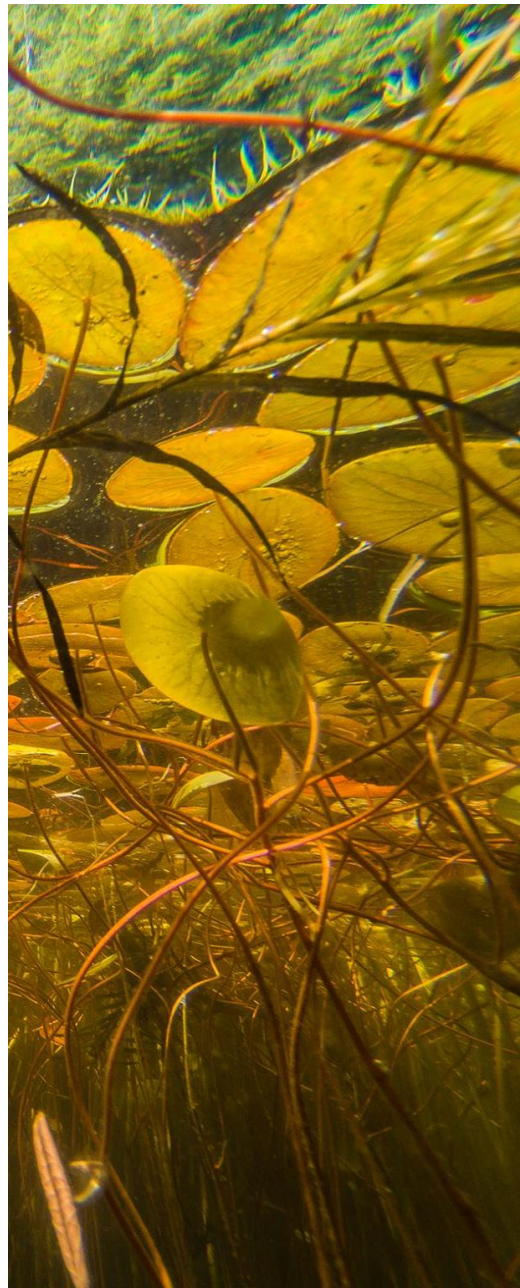
Meg Modley

Lake Champlain Basin Program



QUESTIONS?

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518-576-2082