

Why should Maine consider a new approach to invasive species management?

Deep concern for Maine's ecology and economy

Currently the disparate federal, state, local, non-profit and private programs are not able to address the invasive species onslaught of the 21st century

This is NOT about empire building

We are not prepared financially or with adequate human resources to rapidly respond to a new infestation which might be eradicated

Efforts to address invasive species are generally more efficient and cost effective the earlier they are implemented in the invasion process (Leung et al. 2002)



Should Maine Develop a More Comprehensive Approach to Invasive Species Management?

A 2022 Survey of Likely Invasive Species Managers in Maine and Policy Recommendations to Strengthen Maine's Resilience to Invasive Species

Gary Fish

Capstone paper for Master of Policy, Planning, and Management Program Muskie School of Public Service University of Southern Maine

> December 2022 Professor Yuseung Kim, Capstone Advisor



2022 invasive species survey

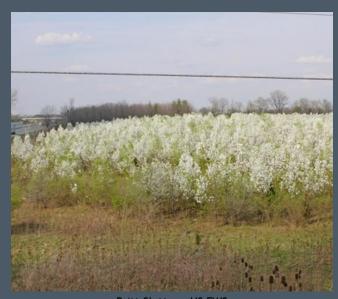
Quick Summary



Quick survey summary

- This paper analyzes the status of Maine's public and private invasive species management efforts and attempts to answer the question, "Should Maine develop a more comprehensive approach to invasive species management?"
- 197 respondents (Survey invite sent to approximately 600 IS representatives)
- Top 3 impediments to effective IS management
 - Public knowledge
 - Funding
 - Staffing

Summary Continued

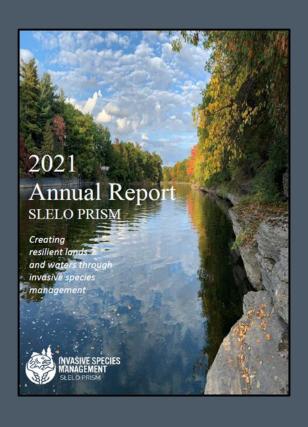


Britt Slattery, US FW

- Top regional species of concern
 - •Invasive terrestrial plants
 - Forest insects
 - •Invasive aquatic plants
 - Ticks

- Species currently managed or of concern
 - •9 Invasive terrestrial plants
 - 3 invasive aquatic plants
 - 3 forest insects

Summary Continued



- Suggestions for improvement
 - Increased funding
 - Education & Outreach
 - Agency coordination & partnerships
 - Increased staffing
- Alternative policy models suggested
 - Partnerships like New York PRISMs
 - Contingency plans
 - Rapid response teams
 - Landowner cost-share programs

Summary Continued



Staffing and budgets

- ■Total staffing for all organizations 120 FTE
- ■Total budgets for all organizations \$3.2 million
- Lake associations employ the most staff and have the largest collective budgets
- Followed by
 - State agencies
 - Forestry organizations
 - National parks & lands
 - Land trusts

•Numbers do not include all state agency staff or budgets

Summary Continued







- Current invasive aquatic plant management programs provide a good example
 - Strong partnerships
 - Consistent funding from the "milfoil sticker"
 - Interagency task force
 - Rapid response capabilities
 - Strong feedback loop to the legislature
 - Four bills passed this session 2023-2024
 - ■LD 10 Added new banned aquatic plants
 - ■LD 92 Clean Drain Dry
 - ■LD 1342 Increases boat sticker fees in 2025 & 2028 \$1.16 M
 - ■LD 2141 One-time \$2 M appropriation for aquatic plants (Was not funded by the appropriations committee)



Funding Increase

Carry-over bill became law, April 10, 2024

Increased fees for motorized watercraft:

	<u>Instate</u>	Out of State
Current	\$15	\$45
Starting 2025	\$25	\$60
Starting 2028	\$35	\$75

IAS Funding Increase

Adjusts distribution of revenue:

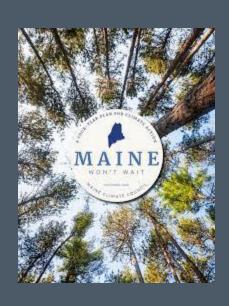
-Current:80% DEP; 20% DIFW

-2025+:70% DEP; 30% DIFW

DEP Revenue starting 2025~ \$2,898,937

DIFW Revenue starting 2025~ \$1,242,402

Summary Continued



- •Ideas for strengthening resiliency
 - Doing nothing seems imprudent
 - Develop ongoing, dedicated funding sources
 - Add state agency staff to continue this research (Senior Planner?) stripped from the Governor's budget in 2023 and supplemental budget in 2024
 - •Add an ISAC who reports to the Governor's Office
 - •Add IS management liaison positions at DACF, IF&W, DEP, DHHS, MDOT and DMR

Summary Continued





- Suggestions
 - Consider new legislation like MA and PA
 - ■Put aside a robust \$1,000,000 rapid response fund (\$40,000 Proposal Stripped from the Governor's supplemental budget.)
 - Develop partnerships (PRISMs or CISMAs?)
 - Maybe start with just one pilot PRISM
 - Increase funding, staffing, outreach
 - Improve coordination with abutting landowners

Why an invasive species council

 The Council would provide a forum through which multiple state agencies and nongovernmental entities meet with a common purpose to identify invasive species of concern that threaten the State's economic, natural and agricultural resources

The Council would:

- Develop and implement a comprehensive state invasive species management plan
- 2. Provide guidance on prevention, control, and rapid response initiatives
- 3. Facilitate coordination among federal, regional, state, and local efforts



A Minnesota
State Management Plan
for
Invasive Species

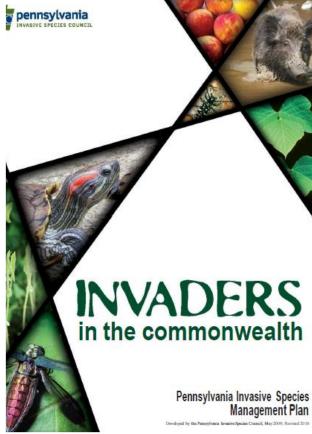
This plan was developed by a workgroup of the Minnesota Invasive Species Advisory Council and revised based upon input gathered at a stakeholder workshop, a public review period, a Tribal meeting and review, MISAC member review, and other input.

October 20, 2009

Michigan's Terrestrial Invasive Species State Management Plan









NEW YORK STATE INVASIVE SPECIES COMPREHENSIVE MANAGEMENT PLAN

FINAL November 2018



www.dec.ny.gov

Have other states done this?

An assortment of plans exist... some old some new.

State of Maine Action Plan For Managing Invasive Aquatic Species







Adopted by the Land and Water Resources Council

And the

Interagency Task Force On Invasive Aquatic Plants and Nuisance Species

October 10, 2002

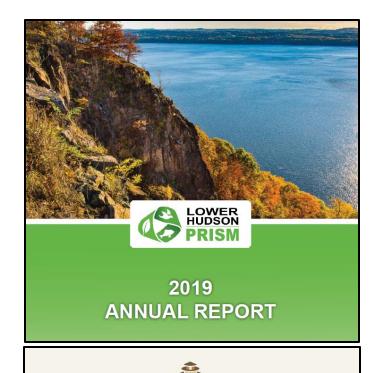
Maine has one 22-year-old aquatic invasive species plan

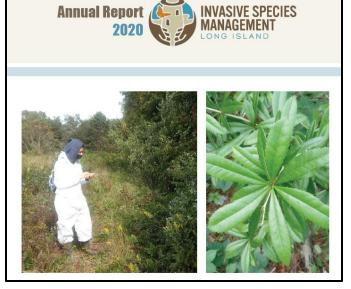
2021 Annual Report CAPITAL/MOHAWK PRISM Partnership for Regional Invasive Species Management 2018 ANNUAL REPORT

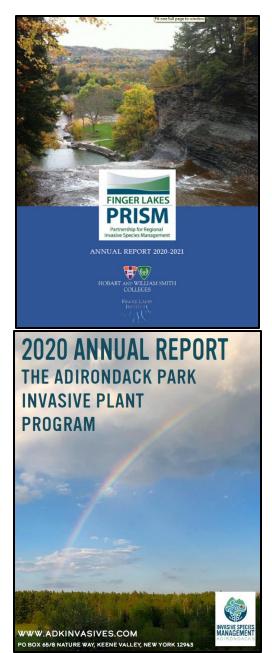


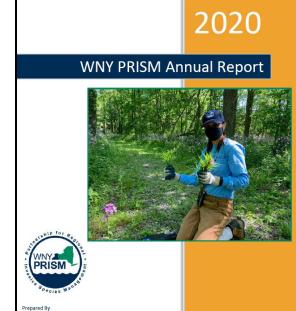


What are PRISMs?

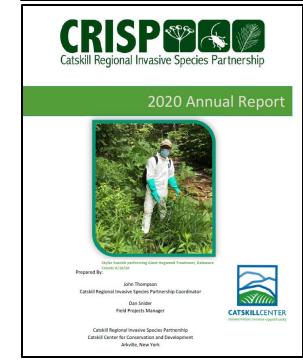








Andrea Locke, WNY PRISM Coordinator



How Effective are PRISMs?



A few of the NY State Lower Hudson PRISM accomplishments in 2018

- ➤ 41 signed partners who participate and have dedicated <u>15,069</u> <u>hours</u>
- Several new invasive species were discovered in our region including Italian arum (Arum italicum), Japanese primrose (Primula japonica), yellow archangel (Lamiastrum galeobaldon), and sapphireberry (Symplocos paniculata).
- ➤ Held <u>66 training sessions where 895 participants</u> learned how to identify, manage or monitor for invasive species.
- ➤ 189 events reaching 8795 individuals about invasive species, 68 presentations which reaching 2,640 individuals



Yellow archangel (Lamiastrum galeobaldon)

How Effective are PRISMs?



A few of the NY State Lower Hudson PRISM accomplishments in 2018

- ➤ <u>1,571 volunteers dedicated 14,340 hours</u> to invasive species efforts.
- ➤ Supported <u>71 interns</u> who conducted invasive management, prevention, and education work.
- ➤ Conducted 323 removal projects targeting 172 invasive species by treating 2,116 acres throughout the region.
- Treated <u>all reported populations of 10 out of 37 of our Tier 2 species</u> and completed treatments on several populations of an additional 5 Tier 2 species. We are actively working to treat 40% of our Tier 2 species.



The mission of the Lower Hudson Partnership for Regional Invasive Species Management is to protect the rich biodiversity and ecosystems of the Lower Hudson region through partnerships and collaborations that focus on controlling the introduction, spread, and harmful impact of invasive species.

How Pennsylvania is Moving Forward?

Partnerships for Regional Invasive Species Management

- 1. Develop implementation plan and program details
- 2. Governor's Office support
- 3. Line item in PDA budget or establish a restricted account
- 4. Outreach to Legislators
- 5. Agency advocacy
- 6. Advocacy from industries, organizations, clubs, associations, etc.

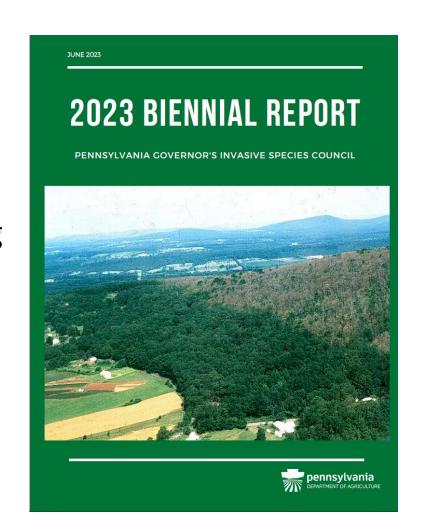
PA Invasive Species Council Celebrates
Third Annual PA Native Species Day



Representatives from four state agencies on the Pennsylvania Governor's Invasive Species Council visited Big Elk Creek State Park in Franklin Township, Chester County, to celebrate the third annual Native Species Day. Pictured here is Agriculture Deputy Secretary Fred Strathmeyer delivering remarks during the event.

Pennsylvania PRISM Program Committee

- Develop a Budget Proposal
- Implementation Plan Subcommittees
 - 1. Timeline
 - 2. Request for Funding Proposal
 - 3. Review Committee and procedures for evaluating RFPs
 - 4. Statement of Work/Contract expectations, reporting, deliverables, etc.
 - 5. PRISM 5-Year Strategic Plan Guidelines
 - 6. GIS and Data Management Central Clearinghouse
- Agency administration of program and staff needed



NY State ISC Coordinator – Thomas Allgaier

"The Invasive Species Council has greatly improved inter-agency cooperation and allows for better use of limited resources and coordination of outreach on invasive species issues."

"The PRISM's have augmented the state agencies' staff to survey and respond to IS issues. including:"

- outreach,
- · trapping,
- visual survey,
- data collection,
- treatment,
- · detector dogs, and
- acquiring additional federal funding.



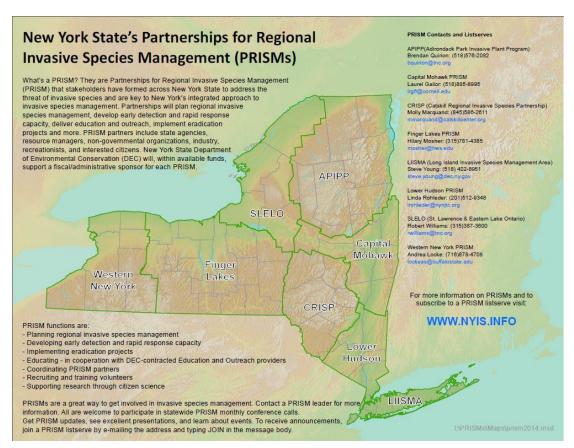
Pros and Cons of the NY PRISM system

Pros

- Local needs, local solutions
- Flexible
- Not state staff
- Contracting process

Cons

- Local
- Accountability
- Not state staff
- Contracting process





Pros and Cons of the NY PRISM system

- Pros outweigh the cons
- All approaches are going to have positive and negative aspects
- As the relationships mature the various groups and agencies settle into roles and develop an understanding of how the pieces fit together.
- PRISMS in New York have added value to the invasive species discussion and individual responses.

Among the 12 recommendations of the 2005 NYS Invasive Species Task Force report to the Governor and Legislature was the formation of eight Partnerships for Regional Invasive Species Management (PRISMs) to help prevent or minimize the harm caused by invasive species on New York's environment, economy and the health and wellbeing of the State's citizens. PRISMs are intended to coordinate invasive species management functions including coordinating partner efforts, recruiting and training citizen volunteers, identifying and delivering education and outreach, establishing early detection monitoring networks and implementing direct eradication and control efforts.



Invasive Species Advisory Council – Potential Maine Membership

Government Members

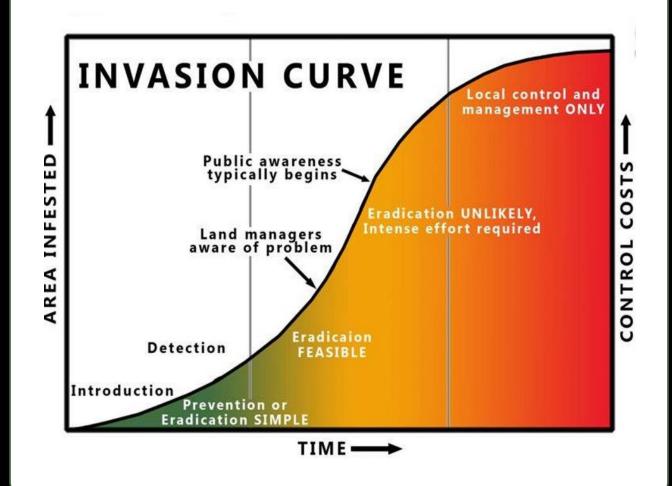
- Maine Department of Agriculture,Conservation & Forestry
- •Maine Department of Marine Resources
- Maine Department of Environmental Protection
- Maine Department of Inland Fisheries & Wildlife
- •Maine Department of Transportation
- Maine CDC
- Maine Association of ConservationDistricts or Conservation Commissions

- NGO/Industry Members
 - Maine Audubon
 - ■The Nature Conservancy
 - Maine Forest Products Council
 - Maine Woodlands
 - •Maine Invasive Species Network
 - Tribal Governments
 - ■Native Plant Trust/Wild Seed Project
 - Maine Landscape and Nursery

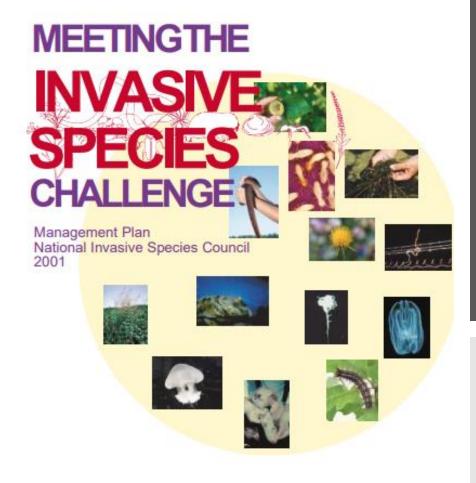
Association

- •Maine Lakes
- Lake Stewards of Maine
- University of Maine Climate Center

Establish a rapid response fund





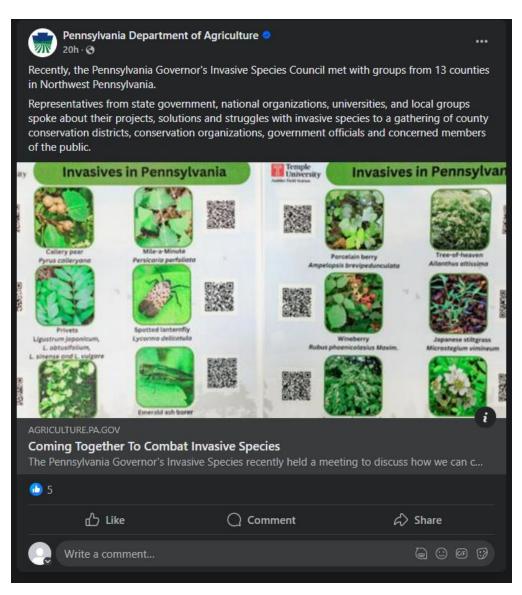


Major Goal

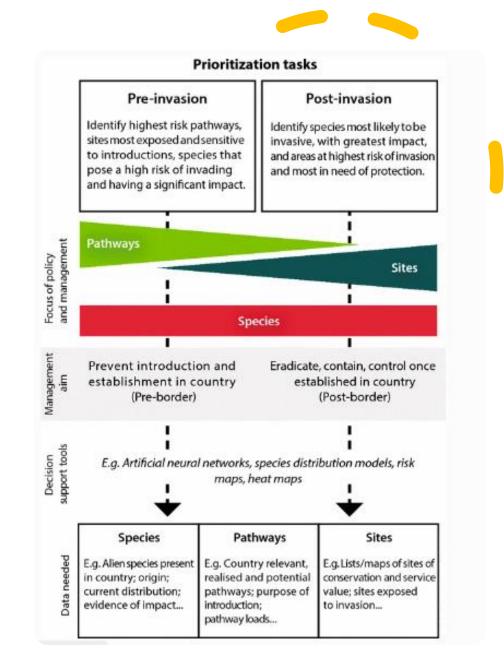
Develop a 5-year comprehensive, multi-taxa invasive species management plan

Invasive Species Stakeholder Meeting(s)

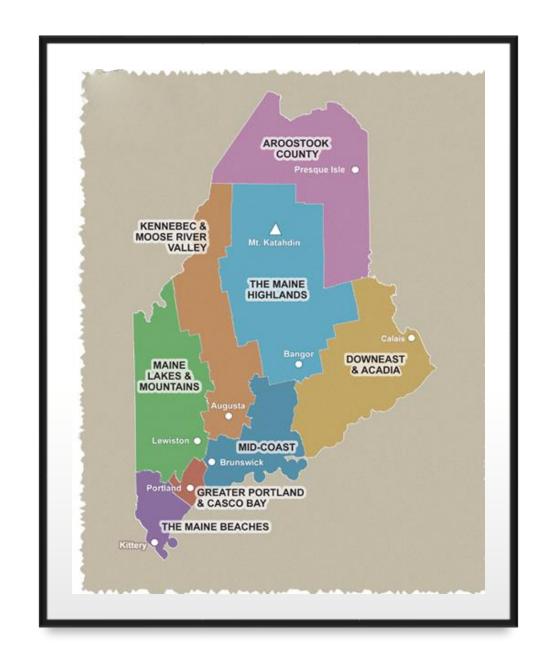




- Better understanding of species' risk and prioritization of management decisions
 - Utilize risk assessments or conduct new evaluations to prioritize non-native invasive species
 - Establish and prioritize:
 - a) a list of invasive species not present in Maine and that should be prevented from entry, and
 - b) a list of invasive species with occurrences in Maine and for which the prevention of expansion or establishment is intended
 - List these species on the Invasive Species Advisory Council website and communicate them to lawmakers, program managers, and the public



Develop Regional Invasive Species Management Partnerships





Improve outreach and education on all invasive species taxa

I am dedicating all my 2024 presentations to my lovely wife Kelli Conneely 11/10/1960 - 3/15/2024





The best medicine!





Discussion – Ideas?

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Horticulturist

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