

Adirondack Park Invasive Plant Program

Partnership for Regional Invasive Species Management (APIPP PRISM)

2021 Annual Work Plan



APIPP is one of eight PRISMs across New York State (NYS). APIPP was founded by the Adirondack Chapter of The Nature Conservancy, NYS Department of Environmental Conservation, NYS Department of Transportation, and NYS Adirondack Park Agency (APA). More than 30 cooperating organizations and hundreds of volunteers support APIPP in its mission.

Adirondack Park Invasive Plant Program (APIPP) 2021 Workplan

The APIPP 2021 Workplan aligns with the goals described in APIPP's five-year [Strategic Plan](#) and outlines specific actions APIPP staff will take in 2021 to advance the plan's goals and objectives. The workplan, finalized March 12, 2021, is subject to adjustments based on funding availability and COVID19 precautions.

APIPP thanks our dedicated partners for their support and assistance in achieving our shared mission of reducing the impact of invasive species on the economy and ecology of the Adirondack Park. Please review the list of [partners](#) on our website.

Funding for APIPP PRISM's 2021 activities is provided, in part, by the NYS Environmental Protection Fund administered through the NYS Department of Environmental Conservation (NYSDEC).

APIPP Strategic Plan Goals	
A.	Coordination
B.	Pathway/Predictive Analysis
C.	Spread Prevention & Vector Management
D.	Enforcement & Legislation
E.	Education & Outreach
F.	Early Detection, Rapid Response, & Monitoring
G.	Control & Management
H.	Information Management
I.	Restoration
J.	Research
K.	Climate Change Adaptation
L.	Resource Development & Funding

APIPP PRISM Staff	
BB	Becca Bernacki, Terrestrial Invasive Species Coordinator
EBD	Emily-Bell Dinan, Education & Outreach Coordinator
BG	Brian Greene, Aquatic Invasive Species Coordinator
TVR	Tammara Van Ryn, Program Manager
ZS	Zack Simek, Conservation and GIS Analyst
SS	Seasonal Invasive Species Management Steward (seasonal position hired for summer 2021)
TIS - EDRR	Terrestrial Invasive Species (TIS) Early Detection and Rapid Response Team
AIS - EDRR	Aquatic Invasive Species (AIS) Early Detection and Rapid Response Team

A. Coordination

Objectives: A1. Coordinate Plan Implementation at the PRISM Level and Coordinate with Invasive Species Efforts at the State and Northeastern Regional Levels; A2. Communicate PRISM Activities and News

Strategies	2021 Workplan	Lead
Coordinate Adirondack PRISM partner meetings and topic-specific committees	Update PRISM strategic plan and align Bylaws and Operational Guidance with the plan; host at least two full partner meetings	TVR
Represent APIPP at state Invasive Species Council (ISC) and Invasive Species Advisory Committee (ISAC) meetings	Provide PRISM representative on ISAC with updates prior to meetings; attend ISC and ISAC meetings as needed	TVR
Coordinate with the New York Invasive Species Research Institute (NYISRI)	Coordinate with NYISRI as needed	ALL
Participate in and/or facilitate quarterly PRISM leader meetings and monthly webinars	Actively engage and participate in PRISM meetings and network with PRISM leaders outside of formal meetings	TVR
Coordinate with the Regional Invasive Species & Climate Change Collaborative (RISCC)	Attend 2021 RISCC conference; engage with the RISCC as time permits	TVR
Coordinate/facilitate TNC North America's Invasive Plant Mobile Monitoring System steering committee	Coordinate committee	ZS
Participate in TNC North America's Invasive Species Learning Network	Assist with committee coordination	EBD
Participate in the NYS Invasive Species Database's (iMapInvasives) user feedback meetings	Actively engage with iMap team	ALL
Support and advance state and partner invasive species efforts	Serve on the NYSDEC forest pest remote sensing steering committee; participate in NYS Invasive Species Awareness Week	ZS/EBD
Communicate PRISM activities and news	Send "e-Newsletter" via APIPP listserve at least 12 times during the year	TVR

Goal B. Pathways and Predictive Analysis Objectives: B1. Conduct Pathway Analysis (complete); B2. Assess Underlying Causes of Invasion to Freshwater and Terrestrial Systems and Work to Address These Underlying Issues		
Strategies	2021 Workplan	Lead
Focus awareness building on primary pathways	Address key pathways during education programs (such as motorized boaters, aquarium dumping, bait, firewood and live plant transport, contaminated fill, intentional plantings, and terrestrial recreation)	EBD/BB
Complete a PRISM-wide, waterbody-specific vulnerability assessment in contract year five	Gather CiBioBase data on all or a portion of up to 35 lakes; outline vulnerability assessment hypothesis and reach out to partners doing similar work	BG/ AIS-EDRR
Develop invasive species prevention zones	Revise zones with IPMDAT if there are new species	ALL
Develop citizen-science lake mapping project	Expand the number of lakes using Lake Management Tracker	BG
Develop deer-browse impact monitoring project	Complete annual monitoring of existing plots; establish up to two new sites	ZS
Build awareness around invasive earthworms to increase citizen-science monitoring and reduce pathways to spread	Host one jumping worm workshop and include topic in educational programs focused on various spread pathways (such as live bait, terrestrial recreation, and transport of finished compost)	EBD/BB

Goal C. Spread Prevention and Vector Management Objectives: C1. Implement Spread Prevention Programs and Encourage Practices to Intercept Invasive Species within the PRISM; C2. Prioritize Areas in the PRISM to Prevent the Spread of Invasive Species		
Strategies	2021 Workplan	Lead
Support Adirondack Watershed Institute (AWI) AIS efforts	Maintain regular communication with AWI	BG/TVR/ EBD
Conduct seasonal stewardship activities at campgrounds and other facilities	Hire and deploy seasonal steward(s)	SS
Encourage preventative invasive plant management at highway department facilities	Continue work at state and municipal facilities; expand work with municipalities as feasible	BB/ TIS-EDRR

Goal D. Enforcement & Legislation Objectives: D1. Raise Public Awareness of Existing Laws Controlling the Transport; D2. Improve Enforcement of Invasive Species Laws and Regulations of Invasive Species; D3. Identify Needs for New Legislation		
Strategies	2021 Workplan	Lead
Provide technical support to NYSDEC as well as NYS's ISC and ISAC with respect to maintaining and strengthening NYS's invasive species regulations and enforcement capabilities	Engage as needed on legislative issues, including discussions regarding Part 575 and Part 576	TVR
Provide technical support, as needed, for the development of regulations implementing NYS's ban on the use of glyphosate on state lands	Develop materials to inform the implementation of NYS's ban on the use of glyphosate on state lands	ZS/BB
Engage in federal invasive species policy efforts as appropriate	Follow the lead of TNC's internal invasive species committee and advise on federal invasive species policy issues as needed	TVR

Goal E. Education & Outreach Objectives: E1. Develop an Awareness and Education Program in the PRISM; E2. Coordinate, Implement, and Evaluate Comprehensive Educational Programs for Multiple Audiences; E3. Produce and Deliver Adirondack PRISM Invasive Species Information and Materials; E4. Support Statewide Education and Outreach Initiatives		
Strategies	2021 Workplan	Lead
Conduct trainings on terrestrial invasives	Conduct workshops on topics such as invasive forest pests for general audiences and forestry professionals, spread prevention best management practices for transportation professionals, species and practices to avoid for horticulturalists and nursery professionals; and spotted lanternfly for concerned citizens and agricultural producers	EBD/ZS/BB

Goal E. Education & Outreach, Continued		
Strategies	2021 Workplan	Lead
Conduct trainings on aquatic invasive species	Conduct workshops on topics such as AIS identification and spread prevention for anglers and recreationists, AIS identification for lake surveys and backcountry water monitors, and AIS management	EBD/BG
Conduct general trainings	Hold spread-prevention and special topic workshops that include training on using iMapInvasives for a variety of audiences, including , volunteers, recreationists, and business enterprises	EBD/SS
Participate in NYS Invasive Species Awareness Week	Hold at least one Adirondack event; support statewide efforts with planning, social media, and cross-promotion of events	EBD
Develop promotional material	Revise former "KISO" outreach posters and brochures on AIS and TIS with positive messages, incorporate new logos/brand guidelines; adapt "Buy it Where You Burn It" firewood transport outreach materials for the APIPP PRISM	TVR/EBD
Maintain website and engage audiences via social media	Continue development of and regularly maintain new APIPP website; expand use and reach of social media channels	EBD
Expand volunteer opportunities	Expand and promote volunteer opportunities (such as for hemlock woolly adelgid (HWA) monitoring, knotweed landowner outreach, and lake monitoring); improve volunteer reporting/communications.	EDB/ALL

Goal F. Early Detection, Rapid Response, and Monitoring

Objectives F1. Maintain Priority Species List; F2. Identify Monitoring Needs; F3. Coordinate Regional Early Detection Monitoring of Invasive Species; F4. Analyze Invasive Species Distribution Data and Prioritize Areas to Monitor; F5. Promote Long-term Monitoring of Management and Restoration Activities; F6. Develop and Coordinate Rapid Response Protocol for Addressing New Populations of Existing Species and of New Species in the Adirondack PRISM; F7. Facilitate the Development of Community Response Preparedness Plans; F8. Expand the APIPP Volunteer Program and Increase Participation

Goal G. Control and Management

Objectives: G1. Prioritize and Select Management Goals; G2. Streamline Regulatory Procedures for Management; G3. Provide Guidance on Best Management Practices and Projects; G4. Continue or Accelerate Existing Control and Other Management Programs; G5. Engage Private Landowners, Organizations and Industry to Assist in Management

Strategies	2021 Workplan	Lead
Conduct terrestrial surveillance monitoring	Hire EDRR team for up to 15 weeks	TIS-EDRR/ BB
Conduct terrestrial outcome monitoring	Hire EDRR team for up to 15 weeks; conduct native plant reestablishment survey	TIS-EDRR/ BB
Conduct aquatic surveillance monitoring	Hire EDRR team for up to 12 weeks; coordinate with backcountry water monitoring program	AIS-EDRR/ BG
Conduct aquatic outcome monitoring	Hire EDRR team for up to 12 weeks; gather data via Lake Management Tracker	AIS-EDRR/ BG
Manage priority terrestrial infestations	Target 25% of priority private land infestations and secure 2021 permits for state land infestations; continue suppression efforts at highway department facilities	BB
Manage priority aquatic infestations	Continue management of European frog-bit and water chestnut; implement pilot boat launch management project on Lake Champlain if funding permits; manage new infestations identified by early-detection crew as feasible	BG
Continue Lake Management Tracker citizen-science, outcome-monitoring project	Train up to two more lakes associations in how to use the program	BG

Goal F. Early Detection, Rapid Response, and Monitoring, Continued
Goal G. Control and Management, Continued

Strategies	2021 Workplan	Lead
Expand biological controls as appropriate	Continue to pursue purple loosestrife control; add swallow-wort spp. control if feasible	BB
Ensure alignment of PRISM data with iMap	Complete regular data uploads using the IPMMS crosswalk and iMapInvasives mobile monitoring tools	ZS
Coordinate Knotweed Management Partnership	Build volunteer corps to secure landowner permissions to treat priority knotweed infestations	BB
Develop emerald ash borer monitoring project	Establish up to four "monitoring and managing ash plots;" work with NYSDEC to locate biocontrol release sites	BB

Goal H. Information Management
Objectives: H1. Maintain Current Regional Invasive Species Distribution Database; H2. Increase Opportunities for Sharing Invasive Species Information throughout the Adirondack PRISM and Beyond

Strategies	2021 Workplan	Lead
Increase quality of data analytics and visualizations	As needed, update webmaps and other graphics on ADKinvasives website	ZS/EBD
Translate information into scientific papers, public information displays, and technical reports	Publish a scientific publication or technical report on APIPPs unmanned aerial vehicle (UAV) survey efforts	ZS
Increase effectiveness of remote sensing initiatives	Complete satellite-based HWA remote sensing pilot in Lake George watershed and explore opportunities to scale effort to larger Adirondack region	ZS

Goal I. Restoration			
Objectives: I1. Implement Restoration of Impacted Ecosystems			
Strategies	2021 Workplan		Lead
Conduct native species reestablishment monitoring on 5-year cycle	Complete native plant restoration research project and create technical report based on findings		BB
Restore priority ecosystems impacted by invasive species	Complete invasive species control projects; conduct active restoration as necessary		TIS-EDRR AIS-EDRR BB/BG/ZS

Goal J. Research			
Objectives: J1. Identify Priority Research Projects in the PRISM; J2. Collaborate with Schools, Colleges, and Universities to Meet Research Needs			
Strategies	2021 Workplan		Lead
Compile research on utility of UAVs for terrestrial detection	Publish best management practices for UAV surveys		ZS
Review protocol for quantifying acres under improved management as a result of invasive species management	Participate on NYISRI's metrics working group		TVR
Conduct water quality sampling with equipment provided by EPA	Conduct sampling in accordance with protocols established by EPA (pending availability of equipment, training, and staff capacity)		BG/EBD
Evaluate efficacy of UAV based multispectral imaging for invasive plant and forest pest detection	Use APIPP's multispectral UAV to map invasive vegetation and assess forest pest-induced tree decline		ZS

Goal K. Climate Change Adaptation & Mitigation
Objectives: K1. Evaluate How Climate Change May Further Expand or Reduce Invasive Species in the Adirondack PRISM; K2. Communicate with Communities and Resource Managers about Steps to Take to Prepare for / Respond to Invasive Species in a Changing Climate

Strategies	2021 Workplan	Lead
Use TNC Resilient and Connected Lands and Waters mapping as additional prioritization filter for education, prevention, detection and management	Prioritize invasive species management sites using TNC resilience data	BB/BG
Work with NYISRI to develop an evidence-based evaluation protocol to track resiliency related outcome metrics in PRISM annual reports	Engage with efforts coordinated by NYISRI	TVR

Goal L. Resource Development and Funding
Objectives: L1. Identify Funding Need, Develop Fundraising Plan, and Seek Funding; L2. Identify Opportunities to Cost Share Projects; L3. Assess the Economic Impact of Invasive Species on the Adirondack PRISM to Help Leverage Support for Funding the Implementation of the Plan

Strategies	2021 Workplan	Lead
Hire and train staff identified in 2019-2024 NYSDEC contract	Hire and onboard aquatic invasive species coordinator; continue to build staff team.	TVR
Pursue additional funds to advance objectives	Manage donations made for knotweed control; collaborate with partners on grant opportunities as funding permits (such as with the Northeastern States Research Cooperative)	TVR