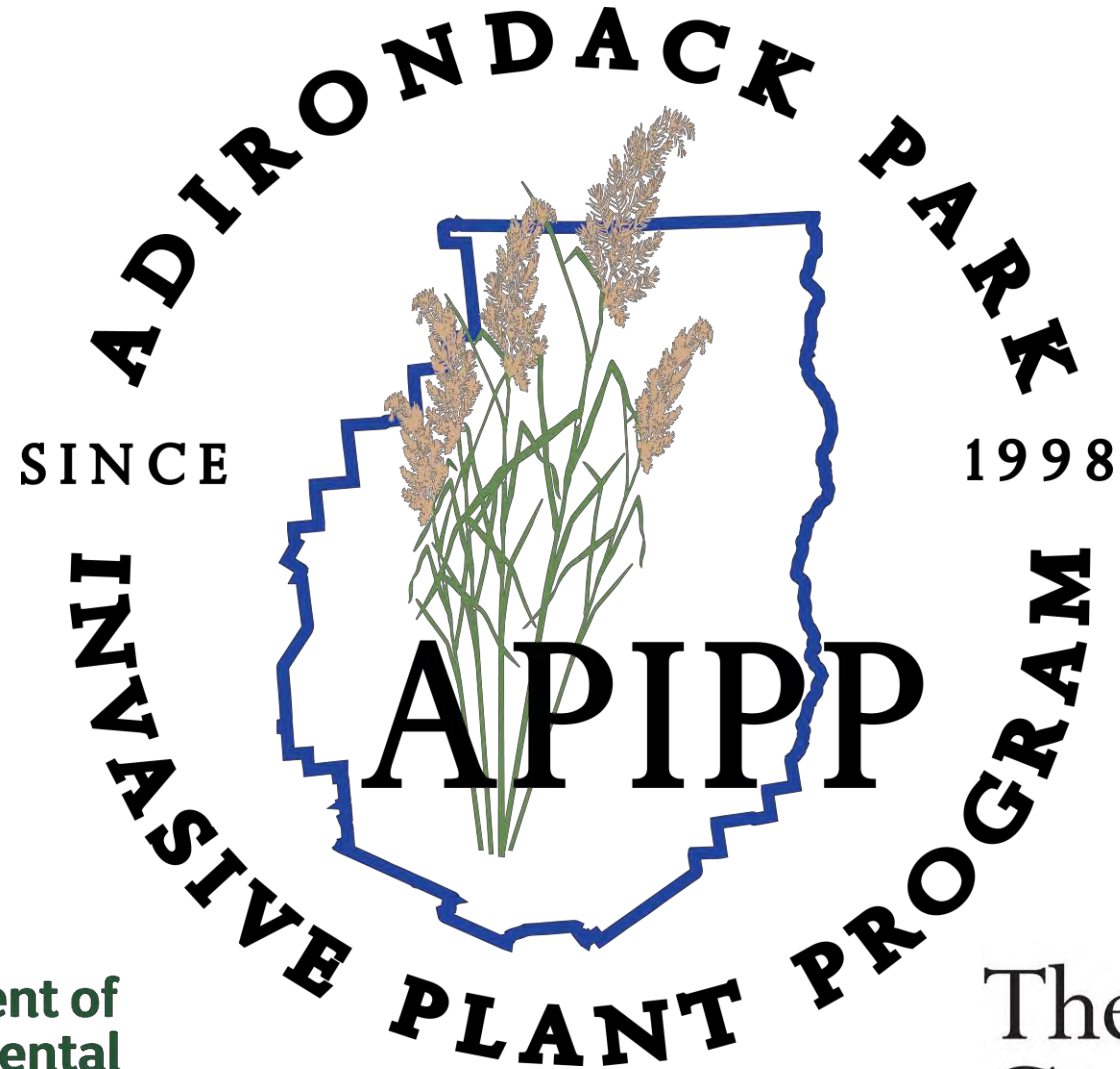


# Adirondack Partnership for Regional Invasive Species Management

## *2019 Annual Work Plan*



Department of  
Environmental  
Conservation

The Nature  
Conservancy



*The Adirondack Park Invasive Plant Program (APIPP) is a program of the Adirondack Chapter of The Nature Conservancy (TNC) and serves as the Adirondack Partnership for Regional Invasive Species Management (PRISM), one of eight partnerships across New York State (NYS). APIPP's mission is to protect the Adirondack region from the negative impacts of invasive species. The program receives its funding, in part, from NYS's Environmental Protection Fund as administered by the NYS Department of Environmental Conservation (DEC). This work plan aligns with APIPP's [Five-year Strategic Plan](#) and outlines program objectives that staff are currently or will be actively working to advance over the course of 2019. Though prepared at the onset of the calendar year, objectives may be adapted throughout the year to better align with available resources and emerging priorities.*

## Strategic Plan Goals

<b>A.</b>	<b>Coordination</b>
<b>B.</b>	<b>Pathway/Predictive Analysis</b>
<b>C.</b>	<b>Spread Prevention &amp; Vector Management</b>
<b>D.</b>	<b>Enforcement &amp; Legislation</b>
<b>E.</b>	<b>Education &amp; Outreach</b>
<b>F.</b>	<b>Early Detection, Rapid Response, &amp; Monitoring</b>
<b>G.</b>	<b>Control &amp; Management</b>
<b>H.</b>	<b>Information Management</b>
<b>I.</b>	<b>Restoration</b>
<b>J.</b>	<b>Research</b>
<b>K.</b>	<b>Climate Change Adaptation</b>
<b>L.</b>	<b>Resource Development &amp; Funding</b>
<b>M.</b>	<b>Innovation &amp; Adaptive Change</b> ( <i>Addendum to 5-year strategic plan</i> )

# A. Coordination

Program Area	Objectives (Items marked with ** are contingent on receipt of renewed APIPP contract)
<b>General</b>	<ul style="list-style-type: none"><li>• Organize and facilitate biannual (spring/fall) principal partner meetings and provide meeting minutes</li><li>• Participate in or facilitate monthly <a href="#">PRISM conference calls/webinars</a></li><li>• Participate in or facilitate quarterly PRISM leader meetings</li><li>• Serve as TNC's representative to NYS's <a href="#">Invasive Species Advisory Committee</a> (ISAC)</li><li>• Serve as NYS's representative to TNC's ISAC</li><li>• Build relationships with and engage partner organizations on priority projects</li><li>• Administer <a href="#">APIPP's email listserv</a> and provide relevant information to partners/stakeholders</li><li>• Participate in DEC Invasive Species Coordination Section's project meetings (ex. Invasive Species Awareness Week planning, Invasive Species Documentary, Statewide Invasive Species Branding Initiative, etc.)</li><li>• Participate in NYS's Invasive Species Database (iMapInvasives) user feedback meetings</li></ul>
<b>Terrestrial</b>	<ul style="list-style-type: none"><li>• Organize and facilitate annual terrestrial invasive species expert working group meeting and provide meeting minutes</li></ul>
<b>Aquatic</b>	<ul style="list-style-type: none"><li>• Organize and facilitate annual aquatic invasive species expert working group meeting and provide meeting minutes</li><li>• Serve on the <a href="#">Adirondack Aquatic Invasive Species Prevention Program's</a> advisory committee</li></ul>

# B. Pathway/Predictive Analysis

Program Area	Objectives (Items marked with ** are contingent on receipt of renewed APIPP contract)
<b>General</b>	<p>Pathway Analysis Complete (see below)</p> <p>Priority pathways for terrestrial invasive plants</p> <ul style="list-style-type: none"><li>• Movement and use of contaminated fill/construction material</li><li>• Sale and use of non-native ornamental plants in agriculture/horticulture</li><li>• Human-assisted spread of seeds and propagules through land-based recreation activities</li></ul> <p>Priority pathways for invasive forest pests and pathogens</p> <ul style="list-style-type: none"><li>• Long-distance movement of untreated firewood</li><li>• Use of out of region sources of trees and shrubs in landscaping, restoration, and nursery plantings</li></ul> <p>Priority pathways for aquatic invasive species</p> <ul style="list-style-type: none"><li>• Overland transport of recreational boating and fishing equipment</li><li>• Human-assisted movement of fish and baitfish</li></ul>
<b>Terrestrial</b>	N/A
<b>Aquatic</b>	<ul style="list-style-type: none"><li>• Advance a regional lake characteristic mapping project utilizing <a href="#">C-Map BioBase</a> to inform lake specific vulnerability assessments for aquatic invasive species**</li><li>• Perform a proximity analysis of documented, priority aquatic invasive plant beds in relation to public and private boat access point to identify locations where boaters must navigate through infestations in order to access or exit a waterbody and prioritize where management may be warranted**</li></ul>

# C. Spread Prevention & Vector Management

Program Area	Objectives (Items marked with ** are contingent on receipt of renewed APIPP contract)
<b>General</b>	N/A
<b>Terrestrial</b>	<ul style="list-style-type: none"><li>• Perform preventative invasive plant management at NYS Department of Transportation (DOT) and local highway department facilities and reload areas to reduce and/or eliminate sources of invasive plant propagules and spread potential by right-of-way maintenance activities.</li><li>• Recruit, hire, train, and supervise a seasonal invasive species management steward to perform invasive plant surveys and management at high intensity recreation use areas (campgrounds and trailheads) to reduce and/or eliminate sources of invasive plant propagules and spread potential by land-based recreationalists**</li><li>• Pilot boot brush stations at public TNC preserves to serve as models for expansion to priority state-administered trailheads**</li></ul>
<b>Aquatic</b>	<ul style="list-style-type: none"><li>• In collaboration with the DEC conduct field evaluations and develop site construction plans for boat inspection and decontamination stations to be deployed under the <a href="#">Adirondack Aquatic Invasive Species Prevention Program</a></li><li>• In collaboration with the DEC, DOT, Fund for Lake George, and Paul Smith's College Adirondack Watershed Institute, operationalize a premier boat inspection and decontamination station at the I-87 Glens Falls Rest Area.</li><li>• Conduct suppression or containment management of established infestations of aquatic invasive plants near high traffic boat launches to reduce and/or eliminate sources of invasive plant propagules and spread by watercraft operators**</li></ul>

## D. Enforcement and Legislation

Program Area	Objectives (Items marked with ** are contingent on receipt of renewed APIPP contract)
<b>General</b>	<ul style="list-style-type: none"><li>• Continue to provide technical support as requested to DEC as well as NYS's ISAC and Council in maintaining and strengthening NYS's invasive species regulations and enforcement capabilities, as necessary</li></ul>
<b>Terrestrial</b>	N/A
<b>Aquatic</b>	<ul style="list-style-type: none"><li>• Provide technical support as requested to DEC as well as NYS's ISAC and Council with ensuring continuation of the <a href="#">Part 576 Aquatic Invasive Species Spread Prevention Regulation</a></li></ul>

# E. Education and Outreach

Program Area	Objectives (Items marked with ** are contingent on receipt of renewed APIPP contract)
<b>General</b>	<ul style="list-style-type: none"><li>• Organize, promote, and coordinate regional participation in <a href="#">NYS Invasive Species Awareness Week</a></li><li>• Offer invasive species related presentations and trainings to the public and partners as requested/identified</li><li>• Attend and provide invasive species informational displays at public events as requested/identified</li><li>• Moderate and maintain relevant content on APIPP's <a href="#">Facebook page</a></li><li>• Respond to all public and partner inquiries regarding invasive species</li><li>• Recruit, hire, train, and supervise a full-time Invasive Species Education and Communications Coordinator**</li></ul>
<b>Terrestrial</b>	<ul style="list-style-type: none"><li>• Organize/facilitate terrestrial invasive plant identification, surveillance, reporting, and best prevention and management practices public trainings</li><li>• Organize/facilitate alternatives to ornamental invasive plants in gardening/landscaping public trainings</li><li>• Organize and facilitate invasive plant identification and best prevention and management practices trainings to DOT and local highway departments</li><li>• Build relationships with private property owners to secure access for staff or contractors to perform surveillance or management activities</li></ul>
<b>Aquatic</b>	<ul style="list-style-type: none"><li>• Organize/facilitate AIS identification, surveillance, reporting and prevention practices public trainings</li><li>• Organize/facilitate in collaboration with the Adirondack Mountain Club, Adirondack backcountry water monitoring public trainings</li><li>• Build relationships with private lake owners to secure access for staff or contractors to perform surveillance or management activities</li></ul>

# F. Early Detection, Rapid Response, and Monitoring

Program Area	Objectives (Items marked with ** are contingent on receipt of renewed APIPP contract)
<b>General</b>	N/A
<b>Terrestrial</b>	<ul style="list-style-type: none"><li>• Advance the volunteer terrestrial invasive species survey, reporting, and management project</li><li>• Perform baseline surveys for terrestrial invasive plants at all of TNC's preserves</li><li>• In collaboration with the DEC, serve as Control Branch Director for management of the hemlock woolly adelgid infestation discovered on Prospect Mountain**</li><li>• Develop scope of work, budget, request for proposals, contract, and work plan to deploy a terrestrial invasive species early detection and rapid response team for 14 weeks (June – September)**</li></ul>
<b>Aquatic</b>	<ul style="list-style-type: none"><li>• Advance the volunteer aquatic invasive species identification and survey project</li><li>• In collaboration with the Adirondack Mountain Club advance the volunteer backcountry waters survey project</li><li>• In collaboration with the Adirondack Park Agency and partner lake associations, advance the <i>Lake Management Tracker</i> project to monitor progress and outcomes of aquatic invasive plant management efforts over time**</li><li>• Develop scope of work, budget, request for proposals, contract, and work plan to deploy an aquatic invasive species early detection team for 12 weeks (June – September)**</li></ul>



# G. Control & Management

Program Area	Objectives (Items marked with ** are contingent on receipt of renewed APIPP contract)
<b>General</b>	N/A
<b>Terrestrial</b>	<ul style="list-style-type: none"><li>• Advance the knotweed species stem injection tool loaner program</li><li>• Purchase or collect and release biological control agents for priority, established infestations of invasive species such as purple loosestrife and swallow-wort species</li></ul>
<b>Aquatic</b>	

# H. Information Management

Program Area	Objectives (Items marked with ** are contingent on receipt of renewed APIPP contract)
General	<ul style="list-style-type: none"><li>• Compile terrestrial and aquatic project information and finalize APIPP's 2019 annual work plan, quarterly reports, and annual report</li><li>• Track progress of advancing APIPP's <a href="#">five-year strategic plan</a></li><li>• Maintain lists of <a href="#">target species</a> (currently in the PRISM and posing the greatest threats) and <a href="#">watched species</a> (not currently in the PRISM but that have a high likelihood to invade in the future and pose the greatest threats) on <a href="http://www.adkinvasives.com">www.adkinvasives.com</a> to guide survey and management efforts</li><li>• Update APIPP's <a href="#">Invasive Species Best Management Practices Manual</a></li><li>• Complete APIPP's <a href="#">three-tiered priority setting process</a> to determine status and establish goals of management projects underway and those to be advanced over the next 5-10 years. Display results through an interactive web-map on <a href="http://www.adkinvasives.com">www.adkinvasives.com</a></li><li>• Review, correct, and track program budget and financials</li><li>• Update APIPP's <a href="#">online invasive species distribution map</a> with 2019 information</li><li>• Submit all 2019 invasive species survey, distribution, abundance, and management data to iMapInvasives</li><li>• Update APIPP's logo and visual identity**</li><li>• Recruit, hire, train, and supervise a full-time Invasive Species Information Management Coordinator**</li><li>• Update and restructure the <a href="http://www.adkinvasives.com">www.adkinvasives.com</a> website**</li></ul>
Terrestrial	<ul style="list-style-type: none"><li>• Orchestrate obtaining all DEC, APA, and DOT permits for 2019 management actions</li><li>• Document and evaluate management success/trends by project and species</li><li>• Maintain NYS registered pesticide business licensing and certification in categories 3a, 5a, and 10</li></ul>
Aquatic	<ul style="list-style-type: none"><li>• Orchestrate obtaining all APA permits for 2019 management actions</li><li>• Document and evaluate management success/trends by project and species</li></ul>

# I. Restoration

Program Area	Objectives (Items marked with ** are contingent on receipt of renewed APiPP contract)
<b>General</b>	<p>To date, most of the Adirondack PRISM's invasive species management projects have focused on small, isolated infestations that have a high likelihood to be locally eradicated from the landscape. Isolated infestations of limited extent that are surrounded by functional native ecosystems, do not usually require active restoration after management as native species recolonize naturally</p>
<b>Terrestrial</b>	<ul style="list-style-type: none"><li>• Evaluate needs for active restoration for managed infestations over 1 acre</li></ul>
<b>Aquatic</b>	N/A

# J. Research

Program Area	Objectives (Items marked with ** are contingent on receipt of renewed APIPP contract)
<b>General</b>	<ul style="list-style-type: none"><li>• Serve on the <a href="#">New York Invasive Species Research Institute's</a> (NYISRI) advisory board</li><li>• Participate in NYISRI technical workshops and prioritization sessions</li><li>• Participate in and support joint <a href="#">North America Invasive Species Management Association</a>/NYSRI conference</li><li>• Provide all Adirondack PRISM research priorities to NYISRI</li><li>• Share results of APIPP's historic scientific reports and research publications as requested/identified</li><li>• Attend relevant scientific conferences, workshops and training sessions</li><li>• Stay up to date on latest invasive species information and scientific literature</li></ul>
<b>Terrestrial</b>	<ul style="list-style-type: none"><li>• In collaboration with Cornell University, perform post-management native vegetation reestablishment monitoring on a subset of priority invasive plant infestations</li></ul>
<b>Aquatic</b>	N/A

# K. Climate Change Adaptation

Program Area	Objectives (Items marked with ** are contingent on receipt of renewed AIPP contract)
<b>General</b>	<ul style="list-style-type: none"><li>• Utilize the network of climate resilient and connected lands and waters identified by TNC scientists (Anderson et al. 2016) as an additional prioritization filter for determining where to implement and allocate projects and resources</li></ul>
<b>Terrestrial</b>	<ul style="list-style-type: none"><li>• In collaboration with TNC's ISAC develop a position paper to promote additional research on the effects of forest pests and pathogens on carbon sequestration and storage by North America's forests</li></ul>
<b>Aquatic</b>	N/A

# L. Resource Development & Funding

Program Area	Objectives (Items marked with ** are contingent on receipt of renewed APIPP contract)
<b>General</b>	<ul style="list-style-type: none"><li>• Develop and submit a proposal, in response to DEC's request for proposals, for TNC to continue to administer the Adirondack PRISM from 2019 – 2023</li><li>• Pursue sources of grant funding and conduct fundraising as needed to advance priority projects</li></ul>
<b>Terrestrial</b>	N/A
<b>Aquatic</b>	N/A

# M. Innovation & Adaptive Change

Program Area	Objectives (Items marked with ** are contingent on receipt of renewed APIPP contract)
<b>General</b>	<ul style="list-style-type: none"><li>• Maintain Part 107 certification to commercially operate unmanned aerial systems (UAS)</li><li>• Orchestrate obtaining all DEC permits for 2019 UAS survey actions</li><li>• Purchase and deploy an UAS with multispectral sensing capabilities to detect and map infestations of terrestrial and aquatic invasive plants as well as map forest resources vulnerable to forest pests and pathogens**</li></ul>
<b>Terrestrial</b>	<ul style="list-style-type: none"><li>• Advance an UAS assisted survey project for <i>Phragmites australis</i> over vulnerable wetlands</li><li>• In collaboration with the DEC, advance a forest remote sensing data acquisition and processing project for an area of the southeastern Adirondacks where hemlock woolly adelgid is expected to establish and spread over the coming decades**</li></ul>
<b>Aquatic</b>	<ul style="list-style-type: none"><li>• Advance an UAS assisted survey project for aquatic invasive vegetation over priority lakes and ponds</li></ul>