

## Lower Hudson PRISM 2020 Action Plan

**Capacity Building - Goal 1:** *The Lower Hudson PRISM has a robust public identity, strong internal structure and a sustainable resource base to continue its mission.*

The strategies for achieving this goal should include coordinating partners, volunteer recruitment and training, and public and local government engagement.

### 2020 Objectives

- A. Increase our public visibility to have the LHPRISM be known as the go-to place for regional invasive species information
- B. Maintain our strong internal structure by growing our active membership, sustaining membership and enabling partners to be more fully engaged
- C. Increase partner's capabilities to conduct invasive species management
- D. Foster strong academic relationships

### Action Plan

| Tasks   | Assigned To    |
|---|----------------|
| A.1. Coordinate participation in New York's Invasive Species Awareness Week (See Goal 4)  | LHPRISM Staff  |
| A.2. Create videos that can be shared via web site/social media   | Nicole Wooten  |
| <ul style="list-style-type: none"><li>Create video about I Love My Parks day to be posted on my organization's web site</li></ul> | Diane Alden    |
| A.3. Publish articles in local newspapers   |                |
| <ul style="list-style-type: none"><li>Coordinate with local partners and submit article for ISAW to local press</li></ul>         | Carolynn Sears |
| <ul style="list-style-type: none"><li>Write article in local newspaper about invasives work on Old Croton Aqueduct</li></ul>      | Diane Alden    |
| A.4. Use the PRISM logo on website and/or social media posts  | Emily Mayer    |
| A.5. Publish blog/social media posts referencing LHPRISM  | Amanda Bayley  |
| B.1. Use new Partner welcome packet and questionnaire for all new partners  | Linda Rohleder |
| <ul style="list-style-type: none"><li>Continue working with New Partners working group</li></ul>                                  | Chris McArdle  |

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| <p>B.2. Continue to make meetings valuable for attendees</p> <ul style="list-style-type: none"> <li>• Continue partner spotlights</li> <li>• Continue to schedule adequate time for networking. Allow more opportunities for partners to share what they're doing especially informally</li> <li>• Continue the meeting schedule of Jan, Mar, July, Sept, Nov</li> <li>• Continue to rotate meeting locations</li> <li>• Continue to have an outdoor component when appropriate</li> </ul> | Linda Rohleder                  |
| <p>B.3. Repopulate Partner Portal on the web site with up-to-date partner resources</p>  | LHPRISM Staff<br>Bob DeTorto    |
| <ul style="list-style-type: none"> <li>• Intern to help with Tier 2 species information</li> </ul>   | Budd Veverka                    |
| <p>B.4. Reach out and recruit new partners representing aquatic interests</p>  | Lindsay Yoder                   |
| <p>B.5. Develop partnerships with local environmental groups in the Rye area (e.g. African American Men of Westchester Environmental Committee, Friends of Rye Sustainability)</p>   | Suzanne Clary                   |
| <p>C.1. Have a workshop on developing an IS management plan for land managers</p>  | Linda Rohleder                  |
| <ul style="list-style-type: none"> <li>• Assist with IS management workshop (e.g. via EMMA)</li> </ul>   | Keri VanCamp<br>Jessica Schuler |
| <p>C.2. Have a workshop for partners on how to plan and lead volunteer work days</p>   | Linda Rohleder                  |
| <p>C.3. Help build a volunteer base</p>  | Erin Cordiner                   |
| <ul style="list-style-type: none"> <li>• Build a volunteer program to increase capacity to control invasive species</li> </ul>   | John Zeigler                    |
| <ul style="list-style-type: none"> <li>• Build a volunteer base by holding monthly work sessions and continue to build long term volunteer stewards for individual preserves</li> </ul>  | Andrew Morgan                   |
| <ul style="list-style-type: none"> <li>• Continue running forestry workshops at Highbridge Park where we identify and remove invasives and inform community members of the work we are doing and its importance</li> </ul>   | Chris McArdle                   |
| <ul style="list-style-type: none"> <li>• Engage preserve neighbors in invasive species removals</li> </ul>   | Andrew Morgan                   |

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| C.4. Help promote volunteer work days  | Jen Lerner                       |
| C.5. Enhance organization's knowledge and awareness about Tier 1-3 species   | Bart Caterino                    |
| C.6. Build in-house capabilities for herbicide application   | Bart Caterino                    |
| C.7. Seek out additional financial resources   |                                  |
| <ul style="list-style-type: none"> <li>Utilize Watershed Agricultural Council grants to assist in invasive species removal.</li> </ul>   | Andrew Morgan                    |
| <ul style="list-style-type: none"> <li>Seek out corporate involvement and encourage Friends of Old Croton Aqueduct board to focus fund raising activities on invasive species management</li> </ul>            | Diane Alden                      |
| D.1. Recruit interns and provide opportunities for invasives program involvement through higher education job boards and community engaged learning offices, as well as high school community service programs | Brent Boscarino<br>Lindsay Yoder |
| <ul style="list-style-type: none"> <li>Compile a list of potential intern projects</li> </ul>  | Emily Mayer                      |
| <ul style="list-style-type: none"> <li>Foster relationships with academic institutions</li> </ul>  | Erin Cordiner                    |
| <ul style="list-style-type: none"> <li>Continue community service opportunities for 2 interns</li> </ul>   | Tim Stanley                      |
| <ul style="list-style-type: none"> <li>Tap into public school system to provide community service and educational opportunities for student interns and classes.</li> </ul>                                    | Matt Smetana                     |
| <ul style="list-style-type: none"> <li>Collaborate with CUNY graduate students</li> </ul>  | Chris McArdle                    |
| <ul style="list-style-type: none"> <li>Host an intern from SUNY New Paltz to complete an invasive species survey of a Walkill Valley Land Trust easement</li> </ul>  | Cara Gentry                      |
| <ul style="list-style-type: none"> <li>Host an intern from Cornell</li> </ul>  | Kristen Ossmann                  |
| <ul style="list-style-type: none"> <li>Sponsor at least 2 high school interns and 2 summer interns</li> </ul>  | Andrew Morgan                    |
| <ul style="list-style-type: none"> <li>Sponsor student internships</li> </ul>  | Emily Philips                    |
| <ul style="list-style-type: none"> <li>Intern to help make Tier 2 species information available to partners</li> </ul>   | Budd Veverka                     |

## Lower Hudson PRISM 2020 Action Plan

**Conservation Targets - Goal 2:** *The Lower Hudson PRISM protects the rich, native biodiversity of the Lower Hudson Valley by focusing on priority targets for conservation.*

The strategies for achieving this goal should involve coordinating partners, managing invasive species strategically, assessment and monitoring network, and public and local government engagement.

### 2020 Objectives

- A. Identify candidate Invasive Species Prevention Zones (ISPZ)
- B. Support management projects which protect rare and endangered species populations.
- C. Identify sites where rare, endangered, or special concern species would benefit by invasive species management.

### Action Plan

| Tasks   | Assigned To   |
|---|---|
| A.1 Conduct thorough aquatic vegetation surveys to identify potential aquatic ISPZs   | Lindsay Yoder, Aquatic Invasives Strike Force<br>Nicole White |
| <ul style="list-style-type: none"><li>Continue CSLAP surveys for aquatic invasives</li></ul>  | Christopher Gow   |
| <ul style="list-style-type: none"><li>Conduct AIS surveys to ID ISPZs</li></ul>   | Nicole White  |
| <ul style="list-style-type: none"><li>Assist in the monitoring and assessment of aquatic systems</li></ul>  | John Butler   |
| A.2. Create application form for proposing candidate ISPZ   | LHPRISM Staff<br>Tom Lewis                                    |
| A.3. Work to identify candidate ISPZs   |   |
| <ul style="list-style-type: none"><li>Work to identify ISPZ areas in North Salem</li></ul>  | Andrew Middlebrook  |
| <ul style="list-style-type: none"><li>Help to evaluate ISPZ nominations (Chairing ISPZ Working group)</li></ul>   | Budd Veverka  |
| B.1 Continue to give weight to IS management projects that will benefit conservation targets in the management project and RFP proposal selection ranking processes | LHPRISM Steering Committee                                    |
| B.2 Support the preservation of American ash through the Monitoring and Managing Ash (MaMA) initiative  | Jonathan Rosenthal<br>Radka Wildova                           |

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| <ul style="list-style-type: none"> <li>Conduct surveys and establish MaMA monitoring plots on Pound Ridge Land Conservancy preserves</li> </ul> | Andrew Morgan        |
| B.3. Conduct invasive species management projects that protect rare, threatened, endangered, or special concern species.                        | Ryan Goolic          |
| <ul style="list-style-type: none"> <li>Protection of 4 species in the Great Swamp</li> </ul>  | Jim Utter/ Mary Rice |
| B.4. Conduct invasive species management projects that protect special concern habitats.  |                      |
| <ul style="list-style-type: none"> <li>2 calcareous fen protection projects in Great Swamp</li> </ul>   | Jim Utter/ Mary Rice |
| C.1. Assist in identification of sites where rare/endangered/special concern species would benefit from invasive species management             | Steven Ricker        |
| <ul style="list-style-type: none"> <li>Focus Scenic Hudson invasives mapping efforts around known RTE populations</li> </ul>                    | Dan Smith            |
| <ul style="list-style-type: none"> <li>Survey RTE populations in NYC parks and recommend IS management actions where necessary</li> </ul>       | Clara Holmes         |

**Strategic Management - Goal 3:** *The Lower Hudson PRISM supports and optimizes regional conservation through strategic invasive species management.*

The strategies for achieving this goal should include managing invasive species strategically, early detection monitoring network, rapid response capacity, and eradication/control efforts.

## 2020 Objectives

- A. Continue to build **early detection** capacity (terrestrial and aquatic)
- B. Continue to build and refine **survey** program(s) to fill data gaps and detect new introductions
- C. Refine our **prioritization** of species and projects
- D. Conduct **management** projects according to our prioritization guidelines
- E. Monitor **recovery** of sites where invasive species are managed
- F. **Test methods** for Best Management Practices

## Action Plan

| Tasks   | Assigned To  |
|---|--|
| Early Detection capacity  |  |
| A.1. Have clear management plans for each Tier 2 species  | LHPRISM Staff                                      |
| A.2. Continue to offer Blockbuster training   | LHPRISM Staff                                      |
| <ul style="list-style-type: none"> <li>Host a Blockbuster training</li> </ul>   | Joyce Tomaselli<br>Tim Stanley<br>Kristen Ossmann  |
| A.3. Develop a method of prioritizing where to survey for early detection species based on results of state-wide prioritization effort.   |  |
| A.4. Increase number of people who are knowledgeable about Tier 1, Tier 2, and Tier 5 species   |  |
| <ul style="list-style-type: none"> <li>Provide more substantial training in Tier 1 and Tier 5 aquatic species for aquatic crew</li> </ul> | Lindsay Yoder                                      |
| <ul style="list-style-type: none"> <li>Conduct training for North Salem stewardship network and community members</li> </ul>              | Andrew Middlebrook                                 |
| <ul style="list-style-type: none"> <li>Attend training sessions to learn about Tier 1, Tier 2 and Tier 5 species</li> </ul>               | Bart Caterino<br>Cara Gentry<br>Andrew Middlebrook |

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|---|---|
| A.5. Host PRISM partner site visits about beech leaf disease  | Taro Ietaka   |
| Fill Data Gaps  |   |
| B.1. Continue to build BlockBuster program volunteer corps to fill data gaps.   | LHPRISM Staff   |
| <ul style="list-style-type: none"> <li>Encourage more master gardeners and garden club attendees</li> </ul>   | Joyce Tomaselli   |
| <ul style="list-style-type: none"> <li>Provide volunteers/interns to participate in Blockbuster survey program</li> </ul>   | Meredith Taylor<br>Dan Smith<br>Andrew Middlebrook  |
| <ul style="list-style-type: none"> <li>Continue Blockbuster participation and promotion</li> </ul>  | Christopher Gow   |
| B.2. Utilize EcoQuest survey program to aid in reporting of emerging invasive species in strategic areas and at strategic times of year                               | Brent Boscarino   |
| <ul style="list-style-type: none"> <li>Help publicize EcoQuest monthly surveys</li> </ul>   | Erin Cordiner<br>Jessica Schuler<br>Emily Mayer<br>Jen Lerner<br>Keri VanCamp<br>Walt Daniels |
| <ul style="list-style-type: none"> <li>Utilize EcoQuest</li> </ul>  | Tim Stanley   |
| <ul style="list-style-type: none"> <li>Educate master gardeners about EcoQuest/iNaturalist</li> </ul>   | Kristin Ossmann   |
| B.3. Continue data collection using iNaturalist   | Christopher Gow<br>Suzanne Clary  |
| <ul style="list-style-type: none"> <li>Continue to grow Van Cortlandt Park's iNaturalist project. Have specific activities for volunteers to take part in.</li> </ul> | John Butler   |
| B.4. Provide in-house data to iMapInvasives for bulk upload   | Dan Smith<br>Andrew Middlebrook   |
| B.5. Submit more observations to iMapInvasives  | Carolynn Sears  |
| B.6. Conduct invasive species surveys   |   |
| <ul style="list-style-type: none"> <li>Developing a field map of non-native forest species in NYC forested areas (esp. Norway maple and black locust)</li> </ul>      | Chris McArdle   |

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| <ul style="list-style-type: none"> <li>Conduct thorough survey along Tibbetts Brook riparian corridor and aquatic system.</li> </ul>   | John Butler   |
| <ul style="list-style-type: none"> <li>Monitor Asian earthworms and their effects in Highbridge park</li> </ul>  | Chris McArdle   |
| Prioritize   |   |
| C.1. Review and update as necessary Lower Hudson PRISM species Tier categorizations for Terrestrial plants   | LHPRISM Staff and convened working group                                    |
| <ul style="list-style-type: none"> <li>Participate in Terrestrial plant working group</li> </ul>   | Keri VanCamp<br>Jessica Schuler<br>Tim Wenskus<br>Tom Lewis<br>Clara Holmes |
| C.2 Review and update as necessary Lower Hudson PRISM species Tier categorizations for Aquatics  | LHPRISM Staff and convened working group                                    |
| <ul style="list-style-type: none"> <li>Participate in AIS working group</li> </ul>   | Nicole White  |
| C.3. Review and update as necessary Lower Hudson PRISM species Tier categorizations for Forest pests   | LHPRISM Staff and convened working group                                    |
| <ul style="list-style-type: none"> <li>Participate in Forest Pest working group</li> </ul>   | Jonathan Rosenthal<br>Radka Wildova   |
| C.4. Refine management project ranking criteria and use it to select management projects   | Ryan Goolic<br>Tom Lewis  |
| Plan   |   |
| D.1. Create prioritized local management plans using LHPRISM prioritization factors as guides  |   |
| <ul style="list-style-type: none"> <li>Create invasive plant management zones on Pound Ridge Land Conservancy preserves, establish a management schedule of removal, restoration, monitoring. Track activities.</li> </ul> | Andrew Morgan   |
| <ul style="list-style-type: none"> <li>Finalize management plans on 2 Pound Ridge Land Conservancy preserves</li> </ul>  | Andrew Morgan   |
| <ul style="list-style-type: none"> <li>Develop a method of prioritizing areas where volunteers can work in Van Cortlandt Park to assist with IS removal</li> </ul>   | John Butler   |



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| <ul style="list-style-type: none"> <li>Determine possible removal techniques for removal of curly leaf pondweed in Van Cortlandt Lake</li> </ul>   | John Butler                              |
| <ul style="list-style-type: none"> <li>Study and plan for management of curly leaf pondweed in East Branch Croton River</li> </ul>   | Jim Utter/ Mary Rice                     |
| D.2. Coordinate between different agencies for management project selection  | LHPRISM Staff                            |
| Conduct Management Projects  |  |
| D.3. Conduct selected management projects  | Ryan Goolic, ISF Conservation Corps Crew |
| <ul style="list-style-type: none"> <li>Assist ISF crews when volunteers are needed</li> </ul>  | Bart Caterino                            |
| <ul style="list-style-type: none"> <li>Manage projects for Tier 2, 3 &amp; 4 species</li> </ul>  | Erin Cordiner                            |
| <ul style="list-style-type: none"> <li>Improve invasive species management efforts</li> </ul>  | Chris Hendershot                         |
| <ul style="list-style-type: none"> <li>Continue to manage Tier 3 species on Scenic Hudson land</li> </ul>  | Dan Smith                                |
| <ul style="list-style-type: none"> <li>Continue IS management project at Joppenburgh Mountain</li> </ul>   | Cara Gentry                              |
| <ul style="list-style-type: none"> <li>Conduct management projects on Randall's Island for Italian arum, sycamore maple, porcelain berry, winter creeper, lesser celandine, Japanese hops, mile-a-minute, and princess tree</li> </ul> | Jennifer Adams                           |
| <ul style="list-style-type: none"> <li>Conduct management projects in NYC parks for <i>Carex kobomugi</i>, Italian arum, Russian olive, <i>Eragrostis curvula</i>, porcelain berry, lesser celandine, and mile-a-minute</li> </ul>     | Clara Holmes                             |
| <ul style="list-style-type: none"> <li>Conduct management projects</li> </ul>  | Keri VanCamp<br>Jessica Schuler          |
| <ul style="list-style-type: none"> <li>Work to control mile a minute vines, swallowwort, and invasive shrubs across Westchester Land Trust preserves</li> </ul>  | John Zeigler                             |
| <ul style="list-style-type: none"> <li>Continue restoration projects at Highbridge Park</li> </ul>   | Chris McArdle                            |
| <ul style="list-style-type: none"> <li>Continue to conduct management of Tier 2 &amp; 3 species at Granite Mountain preserve</li> </ul>  | Nicole Wooten                            |

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| <ul style="list-style-type: none"> <li>Conduct management projects that target Tier 2 and 3 species</li> </ul>                              | Bart Caterino<br>Budd Veverka  |
| <ul style="list-style-type: none"> <li>Conduct Tier 2 &amp; 3 management project in North Salem area</li> </ul>                             | Andrew Middlebrook   |
| <ul style="list-style-type: none"> <li>Remove a small patch of <i>Akebia quinata</i> within the riparian forest of Tibbets Brook</li> </ul> | John Butler  |
| <ul style="list-style-type: none"> <li>Sapphireberry control project on Bedford Audubon property</li> </ul>                                 | Tait Johanssen   |
| <ul style="list-style-type: none"> <li>Assist and coordinate with ISF crew to manage wisteria and viburnum species on the OCA</li> </ul>    | Diane Alden  |
| <ul style="list-style-type: none"> <li>Conduct management on black locust, wisteria and Japanese Angelica at Cary Institute</li> </ul>      | Mike Fargione  |
| <ul style="list-style-type: none"> <li>Conduct an invasives removal project along trail way</li> </ul>                                      | Walt Daniels   |
| <ul style="list-style-type: none"> <li>Conduct lesser celandine management to prevent spread into Titicus river</li> </ul>                  | Andrew Middlebrook   |
| <ul style="list-style-type: none"> <li>Continue meadow restoration project at Jay Heritage Center</li> </ul>                                | Suzanne Clary  |
| D.4. Plan and conduct manual removals of Tier 2 or 3 floating-leaf plants   | Lindsay Yoder, AISF<br>Conservation Corps Crew<br>Danielle Begley-Miller<br>Nicole White |
| <ul style="list-style-type: none"> <li>Remove water chestnut from 2 small waterbodies</li> </ul>  | Tim Stanley  |
| <ul style="list-style-type: none"> <li>Recruit summer staff to work on removal of water chestnut from Van Cortlandt Lake</li> </ul>         | John Butler  |
| Monitor Recovery of Sites   |  |
| E.1. Develop method of selecting which control sites we conduct pre-treatment vegetation surveys on   | LHPRISM Staff  |
| <ul style="list-style-type: none"> <li>Help develop a pre- and post-treatment protocol</li> </ul>   | Meredith Taylor<br>Jonathan Rosenthal  |
| <ul style="list-style-type: none"> <li>Help develop pre-treatment protocol (possibly involving EMMA)</li> </ul>                             | Budd Veverka   |
| <ul style="list-style-type: none"> <li>Consider use of Rapid Site Assessment (used by NYC Parks) before and after.</li> </ul>               | Linda Rohleder   |

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| E.2. Answer the question of what we want to happen in each management site with the ultimate goal of helping to identify in which sites active restoration should be conducted | LHPRISM Staff   |
| E.3. Conduct Rapid Site Assessment before and after forest restoration efforts.  |   |
| <ul style="list-style-type: none"> <li>NYS Parks projects</li> </ul>   | Clara Holmes  |
| E.4. Convene a Native Plant working group to address topics constraining partners' abilities to restore sites where invasive species management has occurred.                  |   |
| <ul style="list-style-type: none"> <li>Participate in Native Plant Working group</li> </ul>  | Keri VanCamp<br>Jessica Schuler<br>Tim Wenskus<br>Tom Lewis<br>Danielle Begley-Miller<br>Tim Stanley<br>Kristen Ossmann<br>Karalyn Lamb |
| E.5. Monitor recovery of management sites  |   |
| <ul style="list-style-type: none"> <li>Monitor a specific site at Mianus River Gorge</li> </ul>  | Budd Veverka  |
| <ul style="list-style-type: none"> <li>Monitor invasive species removal sites at Teatown</li> </ul>  | Danielle Begley-Miller  |
| <ul style="list-style-type: none"> <li>Monitor meadow restoration at Jay Heritage Center</li> </ul>  | Suzanne Clary   |
| <ul style="list-style-type: none"> <li>Monitor yellow archangel and Japanese angelica tree treatment sites at Granite Mountain</li> </ul>                                      | Nicole Wooten   |
| <ul style="list-style-type: none"> <li>Perform yearly monitoring and re-treatment at sites where invasive species have been controlled</li> </ul>                              | Bart Caterino   |
| <ul style="list-style-type: none"> <li>Monitor hardy kiwi site and sticky sage site in Pound Ridge</li> </ul>  | Carolynn Sears  |
| <ul style="list-style-type: none"> <li>Monitor Randall's Island sites</li> </ul>   | Jennifer Adams  |
| <ul style="list-style-type: none"> <li>Monitor recovery of treatment sites on the OCA noting native plant recovery and presence/absence of invasives</li> </ul>                | Diane Alden   |

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| <ul style="list-style-type: none"> <li>Continue to monitor the recovery locations on Joppenbergh Mountain. Check areas that have had IS removed and reseeded with native species.</li> </ul> | Cara Gentry             |
| <ul style="list-style-type: none"> <li>Conduct restoration of areas where invasive species have been removed</li> </ul>  | John Zeigler            |
| <ul style="list-style-type: none"> <li>Completing meadow restoration project and installation of native pollinator gardens at Jay Heritage Center</li> </ul>                                 | Suzanne Clary           |
| <ul style="list-style-type: none"> <li>Monitor Van Cortlandt Lake after Pistia stratoides removal</li> </ul>   | John Butler             |
| E.6. Plant native species and improve the growth and vigor of standing forests to better resist invasion   | Bart Caterino           |
| E.7. Offer training on restoring landscapes with native plants/seeds   | Emily Philips           |
| Testing Methods  |                         |
| F.1. Test new management methods   |                         |
| <ul style="list-style-type: none"> <li>Conduct research on underground growth of knotweed when covered with tarp for solarization</li> </ul>   | John Butler             |
| <ul style="list-style-type: none"> <li>Test non-chemical methods of control of Japanese stiltgrass</li> </ul>  | Jen Lerner<br>Tom Lewis |

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**Education and Outreach - Goal 4:** *The Lower Hudson PRISM reaches out to new audiences and delivers education that communicates the positive impacts of invasive species management on ecosystems. The Lower Hudson PRISM offers clear steps for action on personal and community levels.*

The strategies for achieving this goal should include coordinating the PRISM education and outreach message, public education and outreach, (noting early detection and rapid response outreach message), volunteer training, local government engagement and reporting (incorporated throughout).

## 2020 Objectives

- A. Conduct outreach and education to youth with awareness message and use of Seek/iNaturalist.
- B. Conduct outreach and education for municipal / highway departments with message encouraging detection and ways to mitigate spread.
- C. Conduct outreach and education to gardeners, turf and landscape professionals, arborists with message about selecting non-invasive species and early detection of pests.
- D. Conduct outreach and education to lake associations, boat and yacht clubs, marinas, boaters and fisherfolk on aquatic invasive species identification.
- E. Disseminate educational materials for high priority, early detection species (esp. spotted lanternfly, beech leaf disease) including seasonal, timed alerts.
- F. Work to coordinate with and promote other existing agency and citizen science projects
- G. Plan, prepare for, and participate in NY's Invasive Species Awareness Week
- H. Offer education to the public on restoring your property
- I. Have a Spring Awareness push focused on forests pests (e.g. spotted lanternfly)
- J. Collect local phenological information on invasive species to fill information gaps.

## Action Plan

| Tasks  | Assigned To     |
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| A.1. Conduct invasives programs in schools and organize school-based bioblitzes  | Brent Boscarino |
| <ul style="list-style-type: none"> <li>Partner with the Watershed Agricultural Council to identify schools to train. Train students in IS identification.</li> </ul> | Matt Smetana    |
| <ul style="list-style-type: none"> <li>Continue working with Tuxedo Park local schools</li> </ul>  | Christopher Gow |

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| <ul style="list-style-type: none"> <li>Involve school groups in invasive removal at Fresh Air Fund camps / projects led by interns at NIS outdoor education assoc.</li> </ul>  | Tim Stanley                   |
| <ul style="list-style-type: none"> <li>Conduct a BioBlitz in Fall 2020 including training for participants on iNaturalist</li> </ul>   | Cara Gentry                   |
| <ul style="list-style-type: none"> <li>Conduct invasives training to school age audiences</li> </ul>   | Jessica Schuler               |
| <ul style="list-style-type: none"> <li>Continue to engage local North Salem schools using iNaturalist during field days</li> </ul>   | Andrew Middlebrook            |
| <ul style="list-style-type: none"> <li>Host family-friendly invasive species workshop (e.g. Tama Wong)</li> </ul>  | Suzanne Clary                 |
| <ul style="list-style-type: none"> <li>Conduct invasives workshops for middle school students who visit Jay Heritage Center</li> </ul>   | Suzanne Clary                 |
| A.2. Conduct iNaturalist training to encourage crowd-sourced surveys with focus on family friendly initiatives   | Brent Boscarino               |
| <ul style="list-style-type: none"> <li>Conduct iNaturalist training to encourage crowd-sourced surveys</li> </ul>  | Jessica Schuler               |
| <ul style="list-style-type: none"> <li>Work with Scenic Hudson education staff to introduce invasive species messaging into their programs</li> </ul>  | Dan Smith                     |
| <ul style="list-style-type: none"> <li>Support training on invasives for trail maintainers</li> </ul>  | Walt Daniels                  |
| <ul style="list-style-type: none"> <li>Conduct iNaturalist training w/ homeowners associations and lake associations</li> </ul>  | Jen Lerner                    |
| <ul style="list-style-type: none"> <li>Incorporate iNaturalist/Seek into education, outreach and other programs at HHLT</li> </ul>   | Nicole Wooten                 |
| <ul style="list-style-type: none"> <li>Include iMap/iNaturalist/Seek in 4-H training</li> </ul>  | Jen Lerner<br>Joyce Tomaselli |
| <ul style="list-style-type: none"> <li>Train volunteers to use iNaturalist/Seek</li> </ul>   | John Zeigler                  |
| <ul style="list-style-type: none"> <li>Conduct a City Nature Challenge program with iNaturalist</li> </ul>   | Jennifer Adams                |
| A.3. Assist teachers in adopting the NYS IS Curriculum ( <a href="http://www.dec.ny.gov/education/116542.html">http://www.dec.ny.gov/education/116542.html</a> ); including training of trail stewards to work with schools on Leave No Trace principles | Brent Boscarino               |
| <ul style="list-style-type: none"> <li>Assist teachers in adopting the NYS IS Curriculum via NYBG children's education</li> </ul>  | Jessica Schuler               |

Lower Hudson PRISM 2020 Action Plan

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| A.4. Develop family-friendly aquatic invasives program  | Lindsay Yoder<br>Danielle Begley-Miller   |
| B.1. Educate municipal/DPW audiences  |   |
| <ul style="list-style-type: none"> <li>• Speak at Westchester Co parks annual conference on emerging invasives</li> </ul>   | Taro Ietaka   |
| <ul style="list-style-type: none"> <li>• Conduct a training to highways and facilities employees in Putnam county</li> </ul>  | Jen Lerner<br>Matt Smetana  |
| <ul style="list-style-type: none"> <li>• Leading and hosting DEC Urban Forestry education to municipal and professional audiences and stewards/volunteers</li> </ul>  | Joyce Tomaselli   |
| <ul style="list-style-type: none"> <li>• Increase awareness of North Salem town departments of Best Management Practices for wetland management and rehabilitation</li> </ul>   | Andrew Middlebrook  |
| <ul style="list-style-type: none"> <li>• Continue outreach to local DPW</li> </ul>  | Christopher Gow   |
| <ul style="list-style-type: none"> <li>• Conduct outreach and education for municipal (Parks) departments with message encouraging detection and ways to mitigate spread with Westchester County Bronx River maintenance staff</li> </ul> | Bob DeiTorto  |
| C.1. Educate gardeners, turf and landscape professionals, arborists   |   |
| <ul style="list-style-type: none"> <li>• Give presentations to garden clubs, libraries, commercial audiences arborists on invasive species and management and plant choices</li> </ul>  | Linda Rohleder<br>Ryan Goolic<br>Jen Lerner<br>Joyce Tomaselli<br>Jessica Schuler<br>Matt Smetana |
| <ul style="list-style-type: none"> <li>• Share content and contacts for garden club presentations</li> </ul>  | Joyce Tomaselli   |
| <ul style="list-style-type: none"> <li>• Continue outreach to local garden clubs, landscapers and nurseries</li> </ul>  | Christopher Gow   |
| <ul style="list-style-type: none"> <li>• Lead neighborhood invasives walk in Bedford</li> </ul>   | Carolynn Sears  |
| <ul style="list-style-type: none"> <li>• Outreach and education to gardeners ie: Philipstown Garden Club; Mt. Airy Conservation Club, by offering training on site at Manitoga on best management practices.</li> </ul>                   | Emily Philips   |
| <ul style="list-style-type: none"> <li>• Share information and conduct presentations to regional gardens</li> </ul>   | Suzanne Clary   |

Lower Hudson PRISM 2020 Action Plan

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| D.1. Give presentations to lake associations and boat clubs  | Lindsay Yoder<br>Danielle Begley-Miller<br>Nicole White |
| <ul style="list-style-type: none"> <li>Develop relationships with lake associations and prepare for a symposium directed to that audience</li> </ul>               | Jen Lerner<br>** need assistance                        |
| D.2. Hold tabling/outreach days at marinas, selected inland lakes, and targeted events   | Lindsay Yoder<br>Danielle Begley-Miller<br>Nicole White |
| <ul style="list-style-type: none"> <li>Host an aquatic training session</li> </ul>   | Joyce Tomaselli   |
| E.1 Maintain representation on education and outreach New York State working group, with goal to create central website for invasive species educational materials | Brent Boscarino   |
| <ul style="list-style-type: none"> <li>Work with Brent/ working group</li> </ul>   | Joyce Tomaselli<br>Jessica Schuler                      |
| E.2. Disseminate educational materials for high priority, early detection species  |   |
| <ul style="list-style-type: none"> <li>Spotted Lantern Fly and Beech Leaf disease to Bronx River staff and volunteers.</li> </ul>                                  | Bob DeiTorto  |
| <ul style="list-style-type: none"> <li>Hold workshops on SLF and BLD</li> </ul>  | Andrew Middlebrook                                      |
| <ul style="list-style-type: none"> <li>AIS education material development and native alternatives</li> </ul>   | Nicole White  |
| <ul style="list-style-type: none"> <li>Conduct AIS identification workshop and present poster on AIS outreach at NEAPMS conference</li> </ul>                      | Emily Mayer   |
| F.1. Adopt national Play-Clean-Go messaging, graphics and materials  |   |
| F.2. Cross promote NYC EcoChallenge's when focused on invasive species   | Brent Boscarino<br>Daniel Atha                          |
| F.3. Coordinate with and promote NYS Hemlock Initiative via winter EcoQuest challenges   | Brent Boscarino   |
| F.4. Support Pollinator Pathways project with invasive species education and promotion of native plants  |   |
| <ul style="list-style-type: none"> <li>Work with Conservation Board of Pound Ridge and Pollinator Pathways project to educate about invasive species</li> </ul>    | Carolynn Sears  |
| <ul style="list-style-type: none"> <li>Promote Pollinator Pathways with homeowners and host presentations</li> </ul>   | Andrew Middlebrook                                      |



## Lower Hudson PRISM 2020 Action Plan

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| G. Participate in Invasive Species Awareness Week   |                                  |
| <ul style="list-style-type: none"> <li>Host removal events each month and during ISAW</li> </ul>  | Erin Cordiner                    |
| <ul style="list-style-type: none"> <li>Host an event for ISAW</li> </ul>  | Meredith Taylor<br>Mike Fargione |
| <ul style="list-style-type: none"> <li>Plan local activity for ISAW in Pound Ridge</li> </ul>   | Carolynn Sears                   |
| <ul style="list-style-type: none"> <li>Write newsletter articles for Westchester Co Parks internal on EAB and Beech leaf disease</li> </ul>                     | Taro Ietaka                      |
| <ul style="list-style-type: none"> <li>Lead AIS paddle – Westchester Co Parks</li> </ul>  | Taro Ietaka                      |
| <ul style="list-style-type: none"> <li>Social media outreach for ISAW with a different IS each day and what can be done about it</li> </ul>                     | Cara Gentry                      |
| <ul style="list-style-type: none"> <li>ISAW week camp theme of alien invaders at 4 Westchester Co parks</li> </ul>  | Taro Ietaka                      |
| <ul style="list-style-type: none"> <li>Plan an event at local boat club for ISAW</li> </ul>   | Christopher Gow                  |
| <ul style="list-style-type: none"> <li>Will schedule master gardener volunteers to participate</li> </ul>   | Kristen Ossmann                  |
| <ul style="list-style-type: none"> <li>Support ISAW by attending tabling events and publishing newsletter articles</li> </ul>                                   | Jen Lerner                       |
| <ul style="list-style-type: none"> <li>Support ISAW by attending community events (table at Taste of NY Todd Hill) and delivering teaching materials</li> </ul> | Joyce Tomaselli                  |
| <ul style="list-style-type: none"> <li>Host a walk and removal during ISAW</li> </ul>   | Budd Veverka                     |
| <ul style="list-style-type: none"> <li>Hold an invasive species removal event during ISAW in Pound Ridge</li> </ul>   | Andrew Morgan                    |
| <ul style="list-style-type: none"> <li>Hold a volunteer work day during ISAW</li> </ul>   | Andrew Middlebrook               |
| <ul style="list-style-type: none"> <li>Use social media post and targeted eBlasts during ISAW</li> </ul>  | Andrew Middlebrook               |
| H.1. Offer public education event on conducting ecological restoration on your own property.  | Andrew Morgan                    |
| I.1. Have a Spring awareness push about forest pests  |                                  |
| <ul style="list-style-type: none"> <li>Posting info on spotted lanternfly on the BRPRC website</li> </ul>   | Bob DeiTorto                     |
| <ul style="list-style-type: none"> <li>Host a forest pest training for a spring ISAW</li> </ul>   | Meredith Taylor                  |

## Lower Hudson PRISM 2020 Action Plan

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| <ul style="list-style-type: none"><li>• Assist with forest pest training in early spring</li></ul>                            | Jen Lerner   |
| J.1. Collect phenological information on invasive species   |              |
| <ul style="list-style-type: none"><li>• Through EMMA, we will work to research phenology of several Tier 2 species.</li></ul> | Budd Veverka |

**Mitigate Pathways of Invasion - Goal 5:** *PRISM has a coordinated program to prevent species introduction by focusing on pathways.*

The strategies for achieving this goal should involve public and local government engagement/coordinating partners, education and outreach, and managing priority species strategically.

**2020 Objectives**

- A. Identify top priority pathways for the Lower Hudson
- B. Mitigate the spread of aquatic invasive species by boaters
- C. Monitor for high priority regional forest pests (e.g., spotted lanternfly)
- D. Mitigate pathway associated with movement of heavy equipment
- E. Mitigate pathway of spread from commercial sales

**Action Plan**

| Tasks   | Assigned To                  |
|---|------------------------------|
| A.1. Prioritize pathways on current list and assess data availability needed for prioritization   | Matt Aiello-Lammens          |
| <ul style="list-style-type: none"> <li>Work on AIS pathways, use NISPA data regarding pathways</li> </ul>   | Nicole White                 |
| A.2. Investigate associations between ISF/Blockbuster data with pathway sources   | Matt Aiello-Lammens          |
| B.1. Continue to cover select high traffic boat launches with Watercraft Inspection Stewards  | Lindsay Yoder                |
| <ul style="list-style-type: none"> <li>WISP program / AIS disposal/decontamination stations</li> </ul>  | Nicole White                 |
| <ul style="list-style-type: none"> <li>Continuing to enforce decontamination protocols and attempting to expand them to include fire departments conducting training exercises</li> </ul> | Meredith Taylor              |
| B.2. Educate groups that manage private water bodies on spread prevention and best practices  | Lindsay Yoder<br>Tim Stanley |
| <ul style="list-style-type: none"> <li>Work with private landowners on AIS surveys</li> </ul>   | Nicole White                 |

Lower Hudson PRISM 2020 Action Plan

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|--|---------------------------------|
| C.1. Assist with inspections and monitoring for spotted lanternfly   | Josh Beese                      |
| <ul style="list-style-type: none"> <li>Assist with monitoring for spotted lanternfly</li> </ul>  | Tom Lewis                       |
| <ul style="list-style-type: none"> <li>Monitor for spotted lanternfly and EAB on Randall's Island</li> </ul>   | Jennifer Adams                  |
| <ul style="list-style-type: none"> <li>Survey for SLF and beech leaf disease</li> </ul>  | Dan Smith                       |
| C.2. Provide education and encouragement to monitor pests  | Joyce Tomaselli                 |
| <ul style="list-style-type: none"> <li>Educate Scenic Huson staff on SLF and beech leaf disease</li> </ul>   | Dan Smith                       |
| <ul style="list-style-type: none"> <li>Host educational workshops on monitoring for SLF and BLD on NSOLF lands</li> </ul>                                      | Andrew Middlebrook              |
| D.1. Create an updated construction specification for invasive species decontamination for heavy equipment   | Meredith Taylor<br>Nicole White |
| <ul style="list-style-type: none"> <li>Work on mitigating heavy machinery pathway</li> </ul>   | Taro Ietaka                     |
| E.1. Continue to reach out to nurseries to discourage the sale of invasive plants and encourage native alternatives  | Christopher Gow                 |
| <ul style="list-style-type: none"> <li>Engage local North Salem nurseries and spread awareness of potentially invasive plants and encourage natives</li> </ul> | Andrew Middlebrook              |

## Lower Hudson PRISM 2020 Action Plan

**Information Exchange - Goal 6:** *The establishment of an information exchange allows Lower Hudson PRISM partners and other professionals to strategically manage and integrate information relevant to the management of invasive species and offer that information to any person, group, agency (partner and non-partner alike).*

The strategies for achieving this goal should involve coordinating partners and education and outreach.

### 2020 Objectives

- A. Improve usability and design of PRISM website to provide species-specific search tools and partner information
- B. Continue to increase information available on our website
- C. Increase use of social media to disseminate information
- D. Share more information between partners on experiences managing invasive species

### Action Plan

| Tasks  | Assigned To   |
|--|---|
| A.1. Work out design requirements for species-specific search capability   | Website working group   |
| <ul style="list-style-type: none"> <li>Participate in Web site working group</li> </ul>  | Walt Daniels  |
| B.1. Make PRISM-contracted species research write-ups and BMPs available on the web site   | LHPRISM staff   |
| <ul style="list-style-type: none"> <li>Engage students to help with best management practices, digital platform for Blockbuster species</li> </ul> | Keri VanCamp  |
| B.2. Post existing LHPRISM-branded education and outreach resources available on our web site  | LHPRISM staff   |
| <ul style="list-style-type: none"> <li>From forest pest education project, post materials used</li> </ul>  | Jen Lerner  |
| <ul style="list-style-type: none"> <li>Make links to research tools and resources available on NSOLF web site</li> </ul>                           | Andrew Middlebrook  |
| C.1. Have each partner take responsibility for providing content for one Facebook post   | LHPRISM staff   |
| <ul style="list-style-type: none"> <li>Provide content for a Facebook post</li> </ul>  | Amanda Bayley<br>Danielle Begley-Miller<br>Nicole Wooten<br>John Zeigler<br>Jen Lerner<br>Keri VanCamp<br>Dan Smith |

Lower Hudson PRISM 2020 Action Plan

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|  | Andrew Middlebrook<br>Diane Alden<br>** need reminders |
| <ul style="list-style-type: none"> <li>• Provide a social media post during month of May on monitoring for Hemlock woolly Adelgid.</li> </ul>  | Budd Veverka   |
| <ul style="list-style-type: none"> <li>• Sign up for Facebook post in July</li> </ul>  | Erin Cordiner<br>Emily Philips                         |
| <ul style="list-style-type: none"> <li>• Write a Facebook post about our mile-a-minute efforts in July</li> </ul>  | John Zeigler   |
| <ul style="list-style-type: none"> <li>• Provide a Facebook post in August</li> </ul>  | Emily Mayer  |
| <ul style="list-style-type: none"> <li>• Create a new IS management post updating on black swallow wort treatment efforts in the Model Forest.</li> </ul>  | Matt Smetana   |
| C.2. Draft and schedule Facebook posts   | LHPRISM staff  |
| D.1. Continue to facilitate sharing management experiences   | Linda Rohleder   |
| <ul style="list-style-type: none"> <li>• Share information between partners on experiences managing invasive species</li> </ul>  | Bob DeTorto<br>Andrew Middlebrook                      |
| <ul style="list-style-type: none"> <li>• Share more information about Walkill Valley Land Trust's removal project including challenges faced</li> <li>• Establishing the Jay Council which will arrange forums on issues related to environmental stewardship</li> </ul> | Cara Gentry<br><br>Suzanne Clary                       |