



## Capital Region PRISM Survey Report: Forest Pests Winter 2023-2024

### **Purpose:**

The Invasive Species Survey Report will provide an overview and help guide invasive species treatments, baseline site composition, post-monitoring, and restoration at a specific site over time. A single survey report should not be written for an entire site, but a specific project. A site could have multiple reports. If there are multiple reports within a site, consult with the Capital Region PRISM about potentially preparing a more robust survey report.

To be submitted to Capital Region PRISM following the completion of partner, individual, or PRISM-led survey for review. This form can be found online as "Field Survey Report Template" at <https://www.capitalregionprism.org> or with a request. Please consult the Capital Region PRISM if there are any questions at (518)-885-8995. Please capture and collect data using [iMapInvasives](#). The online software platform and associated mobile application are free and open sourced.

### **Section 1: Survey Summary**

This section provides an overview of the site, contact information, etc. Once complete, save your report and submit the form via email to a member of the Capital Region PRISM team. Feel free to include supporting documents in your submission.

To determine site value, we recommend using the iMap Invasives Prioritization Model which can be found on the [PRISM Prioritization webpage](#). The prioritization model will allow you to assess your site's ecological value based on a few factors. Evaluate the comprehensive score or the ecological score to determine if your site is a high priority site that will help us determine if the location and infestation falls into our priority objectives for future management. If it is not a high priority site, we still encourage you to complete invasive species surveying as the site may be culturally and socially of value to the public.

### **Section 2: Survey Result Summary**

The survey summary section will contain the tables and maps generated from your survey efforts. The biological surveys will assist the Capital Region PRISM in our efforts to identify emerging species to be able to more effectively manage infestations and the spread of populations. Please fill out the provided table and insert screen shots of iMap Invasives maps.

### **Section 3: Summary of Recommendations**

The recommendation section contains treatment calendars and post-season summaries. Most sites need to be revisited annually to document successes/failures, identify any changes needed, and update future treatment calendars.



## **Section 1: Survey Summary**

\*\*\*Multiple Surveys at Multiple Locations in this report

**Survey Dates:** 10/10/23-3/28/24

**Survey Leaders:** Sam Schultz ([ss986@cornell.edu](mailto:ss986@cornell.edu)) and/or Kris Williams ([kbw44@cornell.edu](mailto:kbw44@cornell.edu))

**iMapInvasives ID:** Sam Schultz- 9924; Kris Williams- 9274

**Point of Contact:** Nick Dietschler

NYS Hemlock Initiative, Cornell University

**Justification:** These areas were surveyed based on areas with a lack of surveys, high comprehensive/ecological score, or partner requests. The New York Hemlock Initiative also requested the PRISM identify areas that would be viable for biocontrol release sites.

### **Locations Surveyed:**

#### **Columbia County:**

- Beebe Hill State Forest
- Hand Hollow State Forest
- Lake Taghkanic State Park
- Taconic State Park: Copake Falls Area

#### **Fulton County:**

- Rockwood State Forest

#### **Rensselaer County:**

- Albert Family Community Forest
- Berlin State Forest
- Cherry Plain State Park
- Dyken Pond
- Grafton Lakes State Park
- Ingalls Preserve
- Taconic Ridge State Forest

#### **Saratoga County:**

- Daniel's Rd State Forest
- Henning Preserve
- Moreau Lake State Park
- Spruce Mountain (DEC Property)

#### **Schenectady County:**

- Plotterkill Preserve

#### **Warren County:**

- Butler Pond Reservoir/Halfway Brook Reservoir Trail/Nicholson Preserve (Queensbury Land Conservancy)
- Lake George Wild Forest
- Ralph Rd State Forest

#### **Washington County:**

- Goose Egg State Forest
- Eldridge Swamp State Forest
- Mt Tom State Forest

### **Biocontrol Release Candidates:**

- Albert Family Community Forest- Rensselaer County
- Plotterkill Preserve- Schenectady County

### **Consultation Sites for Treatment:**

- Albert Family Community Forest- Rensselaer County
- Ingalls Preserve- Rensselaer County
- Plotterkill Preserve- Schenectady County

**Survey Techniques:** Provide a clear and concise description of the work to be conducted, target species, and any survey methods used (i.e. Highly probable area search, rake toss, transect, etc.).

A combination of trailside forest pest surveys and surveying known forest stands that are vulnerable to invasive forest pests were used. For trailside surveys, trees every 50 feet as far as 40 feet in each direction away from the trail were checked depending on vulnerable tree species stand locations and densities. Some areas were surveyed off trail based on maps provided by the ArcGIS Online database or partners.

- [Hemlock Woolly Adelgid](#) (*Adelges tsugae*)
- [Southern Pine Beetle](#) (*Dendroctonus frontalis*)
- [Beech Leaf Disease](#) (*Litylenchus crenatae mccannii*)
- [Spongy Moth](#) (*Lymantria dispar*)

## Section 2: Survey Result Summary

- **Plotterkill Preserve- Schenectady County**  
**Searched Area # 1383950**  
**Species Surveyed for: HWA**  
**Detected? Yes**



**Follow-up Treatment/Monitoring?** Following biocontrol release, post-release monitoring will occur in 2-3 years. Additionally, the SCISC is exploring funding options for treatment in the late spring.

**Natural Community Type:** Hemlock-hardwood forest

**Forest Type/Composition:** hemlock dominated forest

**Overall Tree Health:** Moderate

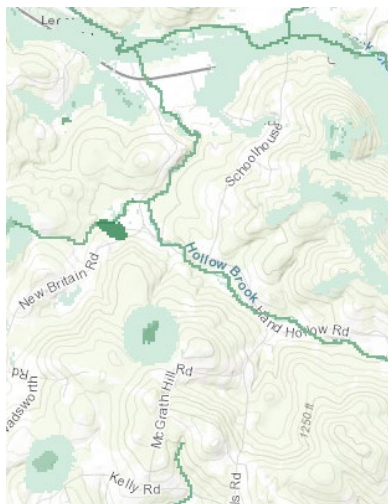
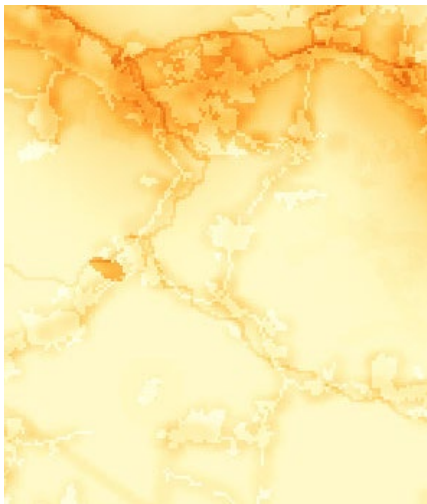
**Native Vegetation Distribution:** Subdominant

**Other Stressors?** Spongy moths defoliated much of the area in the upper gorge in the last few years (2020-2022).

**Presence of Low Branches:** Yes

**Presence of Regeneration:** Yes

- **Hand Hollow State Forest- Columbia County**  
**Searched Area # 1362925**  
**Species Surveyed for: HWA, BLD, EHS**  
**Detected? HWA present, no BLD Detected**



**Follow-up Treatment/Monitoring?** Follow-up monitoring should be conducted for beech leaf disease in this area but most hemlock

**Natural Community Type:** Beech-hemlock forest

**Forest Type/Composition:** Beech, hemlock, ash, some pine, maple and red oak

**Overall Tree Health:** Healthy

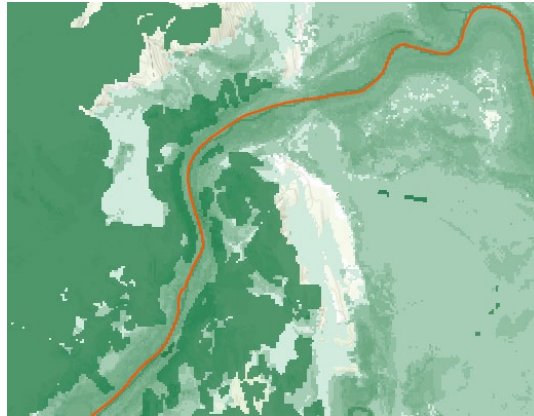
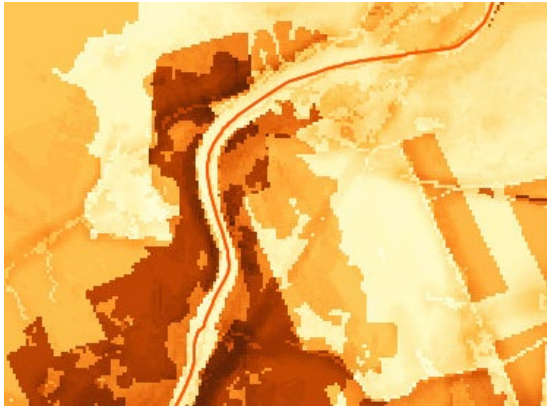
**Native Vegetation Distribution:** Dominant, some invasives present

**Other Stressors?** No

**Presence of Low Branches:** Yes

**Presence of Regeneration:** Yes

- **Moreau Lake State Park- Baker Trail & Porcupine Run Trail Area- Saratoga County**  
 Searched Area # 1384000  
 Species Surveyed for: HWA  
 Detected? Yes



**Follow-up Treatment/Monitoring?** CR-PRISM staff will continue to collaborate with the OPRHP on detection and monitoring surveys throughout Moreau Lake State Park. OPRHP is discussing treatment options as more HWA is detected on park properties.

**Natural Community Type:** Hemlock-Northern hardwood forest

**Forest Type/Composition:** Hemlock dominant

**Overall Tree Health:** Healthy, >90% tree canopy

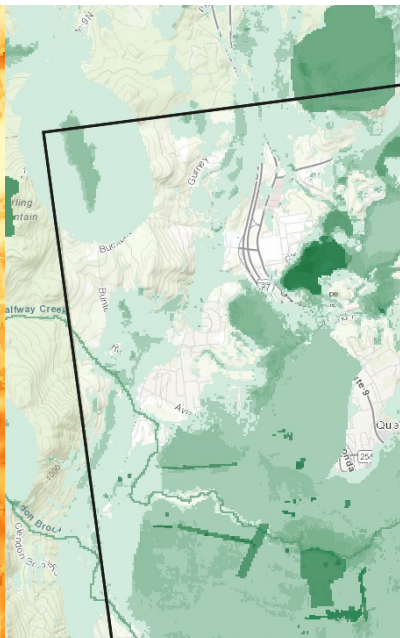
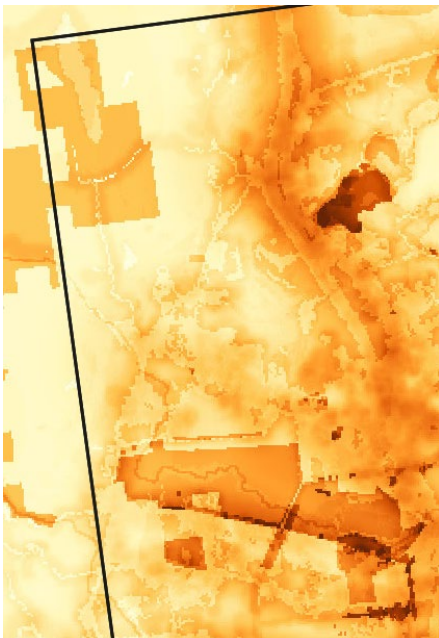
**Native Vegetation Distribution:** Dominant

**Other Stressors?** No

**Presence of Low Branches:** Yes

**Presence of Regeneration:** Yes

- **Butler Pond Reservoir/Halfway Brook Reservoir Trail/Nicholson Preserve- Warren County**  
 Searched Area # 1389831  
 Species Surveyed for: SPB, HWA, BLD  
 Detected? No SPB or HWA. BLD was detected at Butler Pond Reservoir.



**Follow-up Treatment/Monitoring?**

Continued detection and monitoring surveys will be conducted by the CR-PRISM staff this winter in collaboration with staff from the Warren County Soil and Water Conservation District.

**Natural Community Type:** Hemlock-hardwood forest at Halfway brook

**Forest Type/Composition:** Butler Pond was dominated by beech and some pine and oak; Nicholson Preserve was predominantly pine forest

**Overall Tree Health:** Healthy at all sites

**Native Vegetation Distribution:**

Dominant at all sites

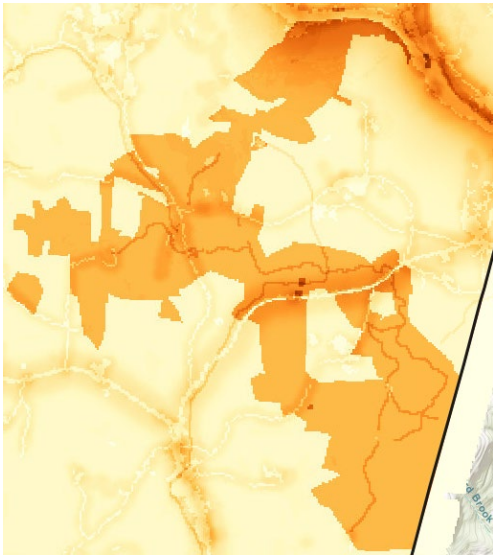
**Other Stressors?** Spongy moth damage, some damage from recent logging events at Butler Pond Reservoir

**Presence of Low Branches:** Yes

**Presence of Regeneration:** Yes



- **Beebe Hill State Forest- Columbia County**  
**Searched Area # 1390587**  
**Species Surveyed for: HWA, BLD**  
**Detected? No BLD or HWA detected**

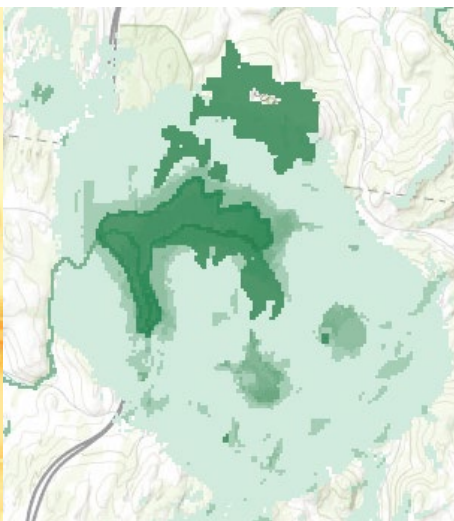


**Follow-up Treatment/Monitoring?**  
 Follow-up monitoring is recommended for BLD, lower priority site for HWA surveys due to low amount of hemlock present  
**Natural Community Type:**  
 Beech-Maple Forest  
**Forest Type/Composition:**  
 Dominant beech forest, small hemlock stands throughout  
**Overall Tree Health:**  
 Healthy

**Native Vegetation**

**Distribution:** Dominant  
**Other Stressors?** No  
**Presence of Low Branches:** Yes  
**Presence of Regeneration:** Yes

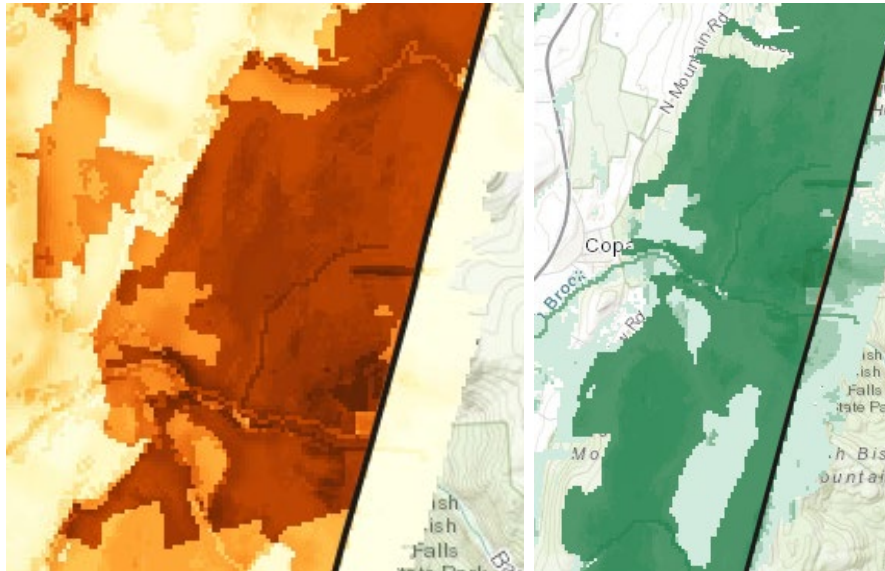
- **Lake Taghkanic State Park- Columbia County**  
**Searched Area # 1390551**  
**Species Surveyed for: HWA**  
**Detected? Yes**



**Follow-up Treatment/Monitoring?**  
 This area seems to be ecologically significant, but hemlocks are not healthy here at all.  
**Natural Community Type:** Hemlock-hardwood Forest  
**Forest Type/Composition:**  
 Predominantly hemlock  
**Overall Tree Health:** Significant decline, most trees are nearly dead  
**Native Vegetation Distribution:**  
 Dominant in forest understory, subdominant throughout much of the state park  
**Other Stressors?** Spongy moth egg

casings  
**Presence of Low Branches:** Yes  
**Presence of Regeneration:** Some, mostly oaks

- **Taconic State Park: Copake Falls Area- Columbia County**  
**Searched Area # 1390530**  
**Species Surveyed for: HWA, EHS**  
**Detected? Yes**



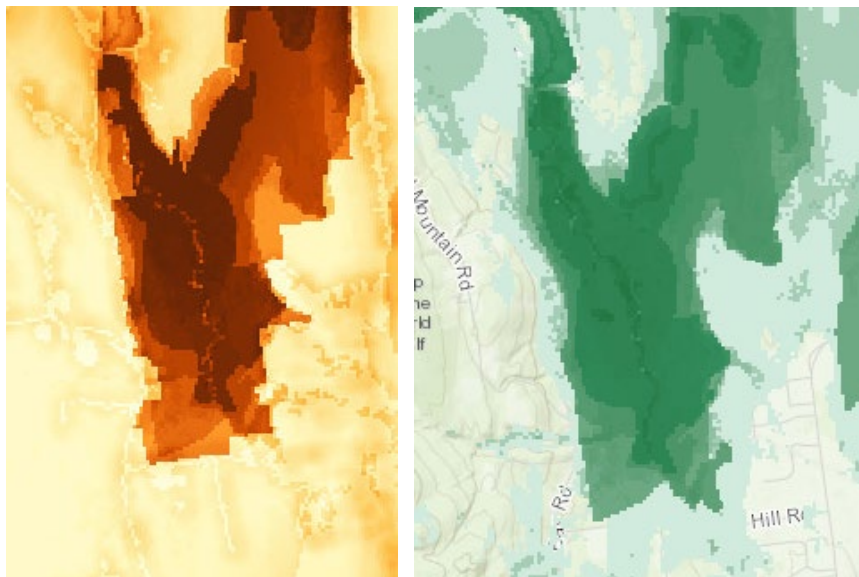
**Follow-up**

**Treatment/Monitoring?** CR-PRISM should explore project collaboration opportunities with NYS OPRHP in this area due to the high comprehensive score and ecological significance of area. Many hemlocks within the Bish Bash Falls area have been treated and those that have not are in significant decline and it is likely too late for treatment.

**Natural Community Type:** Pine plantation within campground area, Bish Bash Falls is hemlock-hardwood forest.

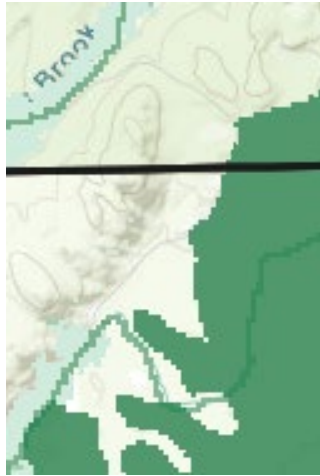
**Forest Type/Composition:** White pine within campground area  
**Overall Tree Health:** Significant decline in non-treated trees.  
**Native Vegetation Distribution:** Dominant  
**Other Stressors?** High traffic area through trails  
**Presence of Low Branches:** On treated trees primarily  
**Presence of Regeneration:** No

- **Adirondack Forest Preserve- Lake George Wild Forest- Warren County**  
**Searched Area # 1391023**  
**Species Surveyed for: Hemlock Woolly Adelgid**  
**Detected? No HWA**



**Follow-up Treatment/Monitoring?** Recommended for follow-up monitoring due to proximity to the blue line and limited public access  
**Natural Community Type:** Marsh headwater stream  
**Forest Type/Composition:** Hemlock, Cedar  
**Overall Tree Health:** Healthy  
**Native Vegetation Distribution:** Dominant  
**Other Stressors?** No  
**Presence of Low Branches:** Yes  
**Presence of Regeneration:** Yes

- Ralph Rd State Forest- Warren County**  
**Searched Area # 1390594**  
**Species Surveyed for: Hemlock Woolly Adelgid**  
**Detected? No HWA**



**Follow-up Treatment/Monitoring?**

**Natural Community Type:** Hemlock hardwood swamp and Hemlock-Northern Hardwood Forest

**Forest Type/Composition:** Hemlock-Northern Hardwood Forest

**Overall Tree Health:** Healthy

**Native Vegetation Distribution:** Dominant

**Other Stressors?** No

**Presence of Low Branches:** Yes

**Presence of Regeneration:**

- Mt Tom State Forest- Washington County**  
**Searched Area # 1391087**  
**Species Surveyed for: Hemlock woolly adelgid**  
**Detected? No**



**Follow-up Treatment/Monitoring?** This site is recommended for follow-up monitoring for forest pests due to the dense hemlock stand on a bi or tri annual basis.

**Natural Community Type:** None listed

**Forest Type/Composition:** Hemlock, ash, beech, shagbark hickory

**Overall Tree Health:** Healthy

**Native Vegetation Distribution:** Dominant

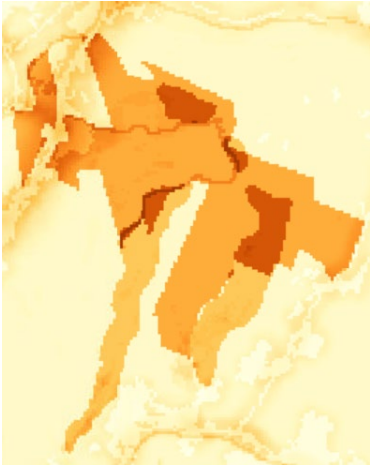
**Other Stressors?** No

**Presence of Low Branches:** Yes

**Presence of Regeneration:** Yes



- **Goose Egg State Forest- Washington County**  
**Searched Area # 1391015**  
**Species Surveyed for: Hemlock woolly adelgid**  
**Detected? No**



**Follow-up Treatment/Monitoring?** Goose Egg State Forest is recommended for follow-up monitoring. Battenkill State Forest does not have significant habitat and therefore is lower priority.

**Natural Community Type:** Chestnut oak forest  
**Forest Type/Composition:** Meadow at edge of the forest as well as retired agricultural land

**Overall Tree Health:** Healthy

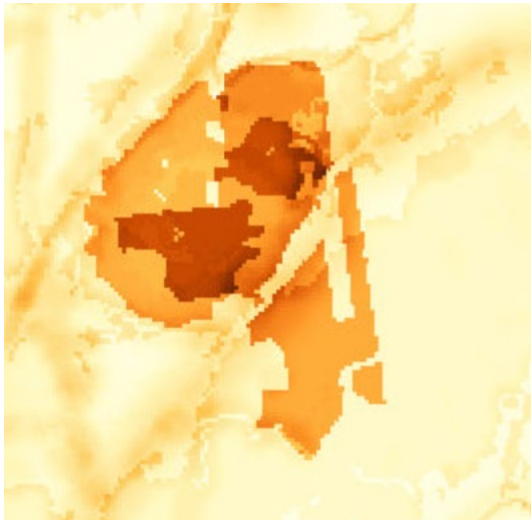
**Native Vegetation Distribution:** Dominant

**Other Stressors?** No

**Presence of Low Branches:** Yes

**Presence of Regeneration:** Yes

- **Eldridge Swamp State Forest- Washington County**  
**Searched Area # 1391088**  
**Species Surveyed for: Hemlock woolly adelgid**  
**Detected? No**



**Follow-up Treatment/Monitoring?** This site is recommended for follow-up monitoring in the summer of 2024. Relatively pristine forest, it would be interesting to determine what herbaceous species are present. Possibility of unique species present in this unique ecosystem.

**Natural Community Type:** Red maple-hardwood swamp, Spruce-fir swamp, Shrub swamp, Marsh headwater stream

**Forest Type/Composition:** Variety of oaks, possible old growth hemlock, ash

**Overall Tree Health:** Healthy

**Native Vegetation Distribution:** Dominant, very few invasive species present

**Other Stressors?** No

**Presence of Low Branches:** Yes

**Presence of Regeneration:** Yes



- **Dyken Pond- Rensselaer County**  
**Searched Area # 1391083**  
**Species Surveyed for:** Hemlock woolly adelgid  
**Detected?** No



**Follow-up Treatment/Monitoring?** Lots of hemlock in the area visited, recommended for follow up monitoring.

**Natural Community Type:** Hemlock-northern hardwood forest, Beech-maple mesic forest

**Forest Type/Composition:** Forested areas predominantly beech, oak, significant amounts of hemlock on other side of the street from parking area. Small hemlock grove on trail

**Overall Tree Health:** Healthy

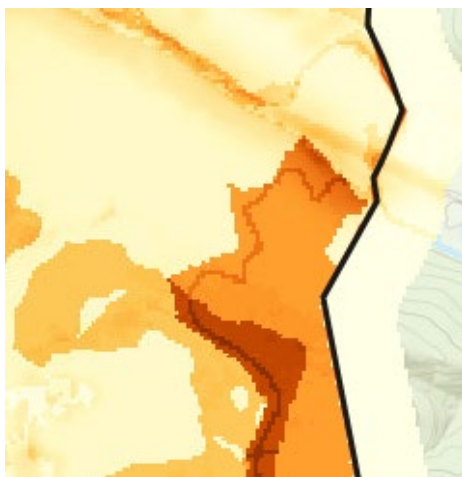
**Native Vegetation Distribution:** Dominant

**Other Stressors?** No

**Presence of Low Branches:** Yes

**Presence of Regeneration:** Yes

- **Taconic Ridge State Forest- Rensselaer County**  
**Searched Area # 1391084**  
**Species Surveyed for:** Hemlock woolly adelgid, elongate hemlock scale  
**Detected?** No HWA, Yes elongate hemlock scale



**Follow-up Treatment/Monitoring?**

A lot of beech recommended for follow up monitoring but many invasives present and not as valuable.

**Natural Community Type:** Beech-maple mesic forest

**Forest Type/Composition:** White ash/white pine/eastern hemlock

**Overall Tree Health:** Healthy

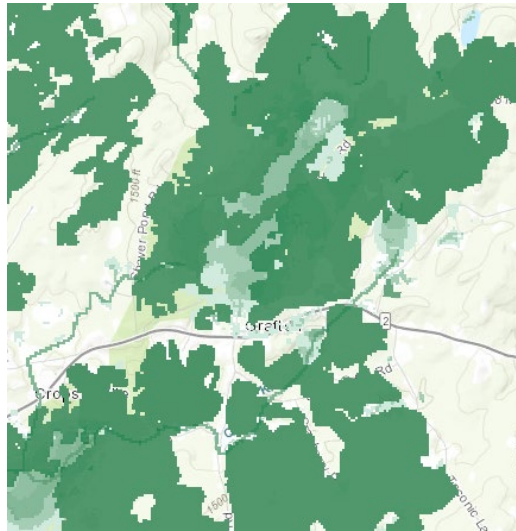
**Native Vegetation Distribution:** Subdominant in northern area.

**Other Stressors?** Many invasive species present at parking area and along trailside (barberry, honeysuckle, multiflora rose, bittersweet, and EHS on hemlocks)

**Presence of Low Branches:** Yes

**Presence of Regeneration:** Yes

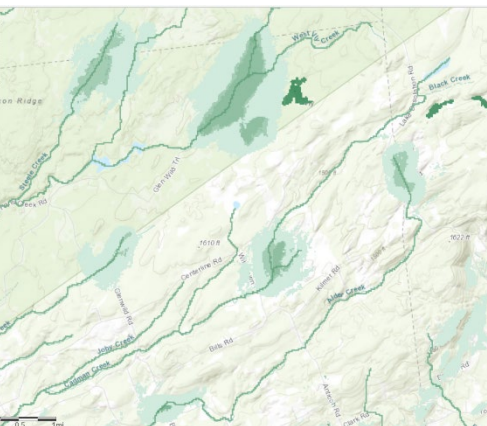
- Grafton State Park- Rensselaer County**  
**Searched Area # 1391081**  
**Species Surveyed for: Hemlock Woolly Adelgid**  
**Detected? No**



**Overall Tree Health:**  
**Native Vegetation Distribution:** Dominant  
**Other Stressors?** No  
**Presence of Low Branches:** Yes  
**Presence of Regeneration:** Yes

**Follow-up Treatment/Monitoring?**  
 Continue to collaborate with OPRHP for an annual detection & monitoring survey at this location.  
**Natural Community Type:**  
 Beech-Maple Mesic Forest, Spruce-northern hardwood forest, Hemlock-northern hardwood forest  
**Forest Type/Composition:**  
 Hemlock-northern hardwood forest  
 Healthy

- Henning Preserve (Saratoga PLAN)- Saratoga County**  
**Searched Area # See iMapInvasives and Saratoga PLAN (39 acres)**  
**Species Surveyed for: HWA**  
**Detected? No**



reflected in the NYNHP Prioritization Model.

**Natural Community Type:** Hemlock-Northern Hardwood Forest with a diverse composition of other hardwoods and softwoods.

**Forest Type/Composition:** Hemlock dominant (overstory/understory)

**Overall Tree Health:** Healthy, >85% tree canopy

**Native Vegetation Distribution:** Dominant

**Other Stressors?** No

**Presence of Low Branches:** Yes

**Presence of Regeneration:** Yes

**Follow-up Treatment/Monitoring?** CR-PRISM staff will continue to collaborate with the Saratoga PLAN on detection and monitoring surveys throughout PLAN properties prioritizing sites based on location to Adirondack Blue Line and significant habitat. There are significant parcels in the vicinity and a value for connectivity exist but is not

- **Rockwood State Forest- Fulton County**  
**Searched Area # 1423102, 1423103**  
**Species Surveyed for: Hemlock Woolly Adelgid**  
**Detected? No**



**Follow-up Treatment/Monitoring?**

Continue to monitor this site regularly, lack of HWA is likely due to dieback from cold weather. There is significant decline of the hemlock trees off the logging road on the northern side of the forest. The trees down by Rockwood Lake are much healthier but some have been treated.

**Natural Community Type:**

Hemlock-hardwood forest

**Forest Type/Composition:**

Hemlock, Beech, Ash, Maple, hemlock dominant by the lake

**Overall Tree Health:** Trees are moderately healthy by the lake, trees along the logging road are significantly more in decline.

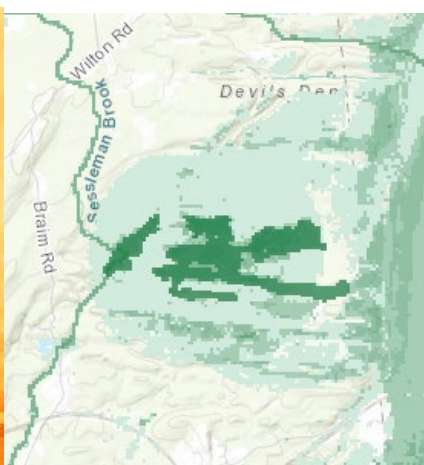
**Native Vegetation Distribution:** Dominant

**Other Stressors?** Deer

**Presence of Low Branches:** Some, loss of low branches off of logging road due to dieback, more low branches along lake.

**Presence of Regeneration:** Some saplings observed close to the lake, not a lot of regeneration off the logging road. All understory growth has evidence of deer browsing.

- **Daniel's Rd State Forest- Saratoga County**  
**Searched Area # 1422620**  
**Species Surveyed for: Hemlock Woolly Adelgid**  
**Detected? No**



**Follow-up Treatment/Monitoring?**

Continue to monitor this area, Daniel's Rd has many wetland complexes that increase its ecological significance and make it a highly probable area for HWA to establish. HWA was detected along the main trail at the first wetland complex in the state forest in summer of 2023. Difficult to access wetland areas due to recent flooding so survey was focused on upland areas.

**Natural Community Type:** Shallow emergent marsh, Red maple-hardwood swamp

**Forest Type/Composition:** Hemlock hardwood forest

**Overall Tree Health:** Moderate

**Native Vegetation Distribution:** Dominant

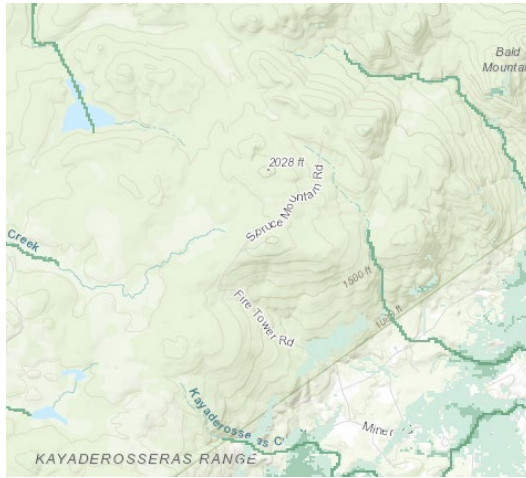
**Other Stressors?** Spongy moth damage is very visible

**Presence of Low Branches:** Yes

**Presence of Regeneration:** Some



- **Spruce Mountain- Saratoga County**  
**Searched Area # 1425809**  
**Species Surveyed for: HWA**  
**Detected? No**



**Follow-up Treatment/Monitoring?**  
 These hemlocks seem to be primarily understory hemlocks

**Natural Community Type:**  
 Hemlock-hardwood forest

**Forest Type/Composition:** Hemlock dominant

**Overall Tree Health:**  
 Moderate

**Native Vegetation Distribution:** Dominant

**Other Stressors?** Evidence of past spongy moth damage, deer presence

**Presence of Low Branches:** Some but not many

**Presence of Regeneration:** Limited regeneration