

CAPS 2022 Exotic Wood Borer Survey Final Report Summary

The CAPS program monitors for and detects insect and plant pests that are threats to agricultural and natural ecosystems. This program helps protect the nation's food supply and is integral to the US Department of Homeland Security. New Hampshire's close proximity to the major international ports of Boston, Halifax and Montreal makes it extremely vulnerable to introductions of exotic (non-indigenous) insects and pathogens. The CAPS program facilitates early detection, rapid response and appropriate actions needed to address introduced pests. Current target pests include exotic wood boring beetles that could have serious impacts to our native forests if they were introduced, and several pests that could invade the state through the horticultural plant industry.

EXOTIC WOOD BORER SURVEY

NHDAMF conducted a trapping survey for 6 beetles of national or state concern: *Monochamus alternatus* (Japanese pine sawyer: JPS), *Monochamus urussovii* (black fir sawyer: BFS), *Hylobius albetis* (large pine weevil), *Tetropium castaneum* (black spruce beetle: BSB), *Tetropium fuscum* (brown spruce longhorned beetle: BSLB), and *Trichoferus campestris* (velvet longhorned beetle: VLB).

Approved methods, pheromones, and traps were used in the survey. Traps were deployed at ten sites located in Carroll, Rockingham, and Strafford Counties. Each site received one Lindgren Funnel trap and two cross vane panel traps.

Sites included in the survey included forested areas, campgrounds, interstate highway rest areas, high traffic roadsides, and other locations identified as high risk. Traps were deployed during the first week of May, 2022, and checked every 2 weeks. Samples were screened in the lab for targets and new state records. The samples were negative for all target pests.

1. Survey methodology (trapping protocol):

	Common Name	Scientific Name
Pest:	Japanese Pine Sawyer	<i>Monochamus alternatus</i>
	Black Fir Sawyer	<i>Monochamus urussovii</i>
	Large Pine Weevil	<i>Hylobius albetis</i>
	Black Spruce Beetle	<i>Tetropium castaneum</i>
	Brown Spruce Longhorn Beetle	<i>Tetropium fuscum</i>
	Velvet longhorned beetle	<i>Trichoferus campestris</i>

	Proposed	Actual
Sites (Locations):	10	10

Traps:	30	30
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Number of Counties:	3
Counties:	Carroll, Rockingham, Strafford

2. Survey dates:

	Proposed	Actual
Survey Dates:	May – September, 2022	May – September, 2022

3. Benefits and results of survey:

	Positive	Negative	Total Number
Traps	0	30	30