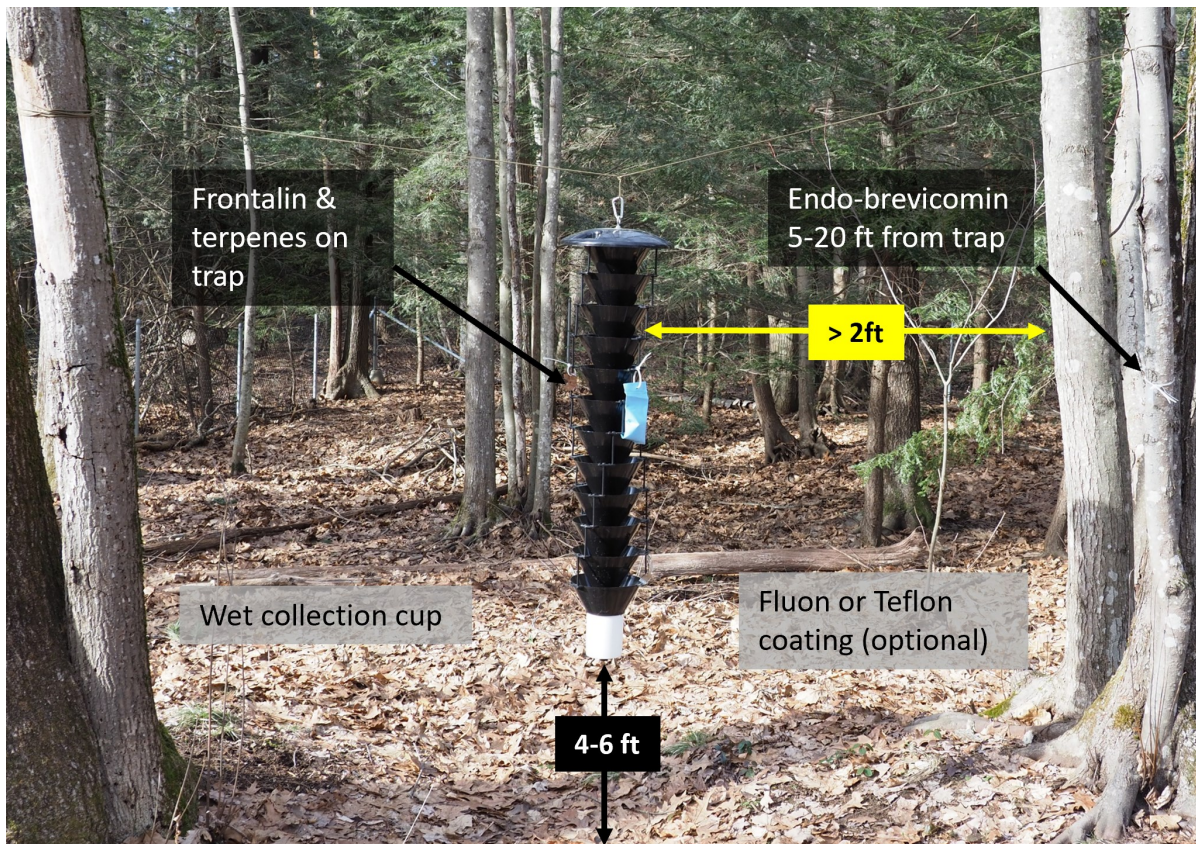


# How to Deploy a Southern Pine Beetle Detection & Monitoring Trap

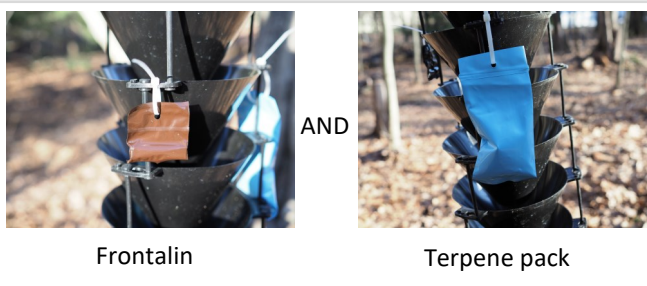
Southern pine beetle (SPB, *Dendroctonus frontalis*) is established in New York and southern New England. Semiochemical-baited traps are a strong tool for monitoring established SPB populations or detecting the beetle as it expands into new areas. Knowledge of population distribution provides natural resource managers with critical information that can help plan silvicultural or restoration treatments in at-risk pine forests. Consistent methodology for deploying SPB traps across the region is important. Information on how to set a trap for SPB, selecting a site, timing a survey, and how to handle trap collections is provided in this document.

## Trap set-up

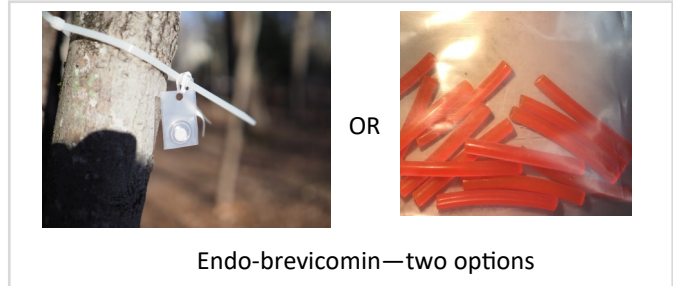


## Lure components

Attach to trap pegs above middle funnel



Attach to sapling, tree, or stake 5-20 ft from trap



## Materials needed

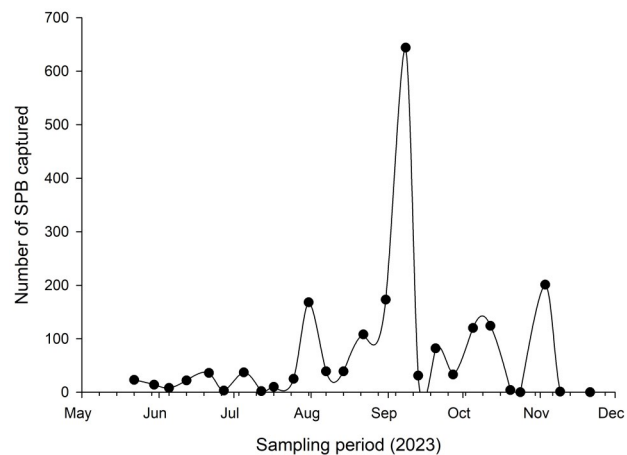
- 12-unit multiple-funnel trap; wet cup
- SPB three component lure (frontalin, terpene pack, endo-brevicomin). [Email](#) for lure information.
- Rope, paracord, or strong string or rebar/conduit for trap hanging
- Zip ties
- Propylene glycol (RV antifreeze)

## Site selection & trap placement

- Pine-hardwood forests with greater percentage of hardwoods
- Hard pine component (pitch, red, jack pine) is preferred
- Place traps > 25 yards from pine tree
- One trap per site

## Survey timing

- Survey in the spring or fall, or both
- Spring surveys: Establish traps by mid-May
- Fall surveys: Establish traps by mid-September (southern New England), or October (northern New England)
- Run traps six weeks (one lure cycle)
- Count adult SPB and clerid beetles
- Coordinate with state forest health programs



SPB flight phenology on Prudence Island, RI.

## Trap collections

- Collect every other week
- Pour trap collection through paper paint strainer, refill cup
- Fold strainer up, place in bag labeled with site name and date of collection
- Store samples in freezer until processing
- Count SPB and *Thanasimus dubius* (Cleridae)
- Enter trapping data into the [SPB Pine Beetle Prediction Trapping](#) site

