

# Survey Protocol for 6-Component Cerambycid Lure Surveys

## Background

The 6-component lure combination is used to survey for cerambycids in hardwoods. In 2022, we conducted a pilot survey with a few states to determine the impacts on preliminary identification. We are now ready to offer this survey to state cooperators and PPQ staff who conduct Exotic Wood Borer and Bark Beetle Surveys. This survey method is different in that it is not currently tied to a particular National Priority Pest. Instead, the lure combination is a good general attractant for multiple cerambycid genera.

## Method

**Trap:** Cross Vane Panel Trap, Black

**Lures:** A combination of six different individual lures. All lures are in separate dispensers.

Product name	Dispenser	Effectiveness	Compound(s)
<b>Existing Lures</b>			
Monochamol Lure	Bubble	28 days	2-(undecyloxy)-ethanol
Geranyl Acetol Lure	Rubber septum	56 days	geranyl acetol (fuscumol)
Ethanol lure	Polysleeve	56 days	ethanol
<b>New Lures (2022/2023)</b>			
Fuscumol acetate Lure	Bubble cap	90 days	fuscumol acetate
6-Ketone Lure	Bubble cap	90 days	3-hydroxy-2-hexanone (3mg/d)
6-Diol Lure	Bubble cap	90 days	RRSS-2,3-hexanediol (1.05mg/d)

## Deployment

### Time of year to survey:

- Traps should be placed from around 750-800 GDD (Base 50° F) until at least 1600 GDD. This corresponds with June to August/September in the northeast.
- For states with warmer winter temperatures, traps should be placed by early April and should run through August/September.

### Survey site selection:

- Place traps in locations where other EWB/BB surveys are being conducted.

### Trap placement:

- Place traps at the forest edge. Hang within canopy (15-30 ft) if possible, but a 6 ft pole is acceptable.
- For this lure configuration, hardwoods will be preferable over conifers.

- All lures can be placed in the same location on the trap (center hole). To facilitate ease of lure replacement, you can separate them on three carabiners or zip ties as follows:
  1. Put the three 90-day lures onto a carabiner/zip tie (Fuscomol acetate Lure, 6-Ketone Lure, and 6-Diol Lure)
  2. Put the Monochamol Lure (28d) onto a 2nd carabiner/zip tie
  3. Put the Ethanol Lure and Geranyl Acetol Lure (56d) on third carabiner/zip tie
    - \*The Geranyl Acetol Lure is a rubber septum. You may attach it to the carabiner/zip tie by either of these two methods:
      - Poking a paper clip or safety pin through the septum.
      - Using a plastic lure holder (available through the IPHIS supply catalog).

#### **Trap spacing:**

- When trapping for woodborers or bark beetles, separate traps with different lure combinations by at least 30 meters (98 feet).

#### **Trap service schedule:**

- Traps should be serviced every 2 weeks.
- Samples should be collected every 2 weeks.
- Lures should be changed according to their length of effectiveness

#### **Mobile App (PPQ Only):**

- If you are using the EWB/BB App, use the lure: Cerambycid 6-component.
- Cerambycid 6-component is the shorthand name for the 6-compound lure combination used in this survey: 6-diol Lure, 6-ketone Lure, Ethanol Lure, Fuscomol acetate Lure, Geranyl Acetol Lure, Monochamol Lure.
- We will build this into the NAPIS export that “Cerambycid 6-component” = 6-diol Lure, 6-ketone Lure, Ethanol Lure, Fuscomol acetate Lure, Geranyl Acetol Lure, Monochamol Lure, with NAPIS Lure Code 172.

### Target species

This is a general lure for hardwood cerambycids. Currently, there are no specific targets associated with this lure on the National Priority Pest List.

### Survey Summary Form

Enter this as the target: Family Cerambycidae ~ Cerambycid – 6 diol/ketone.

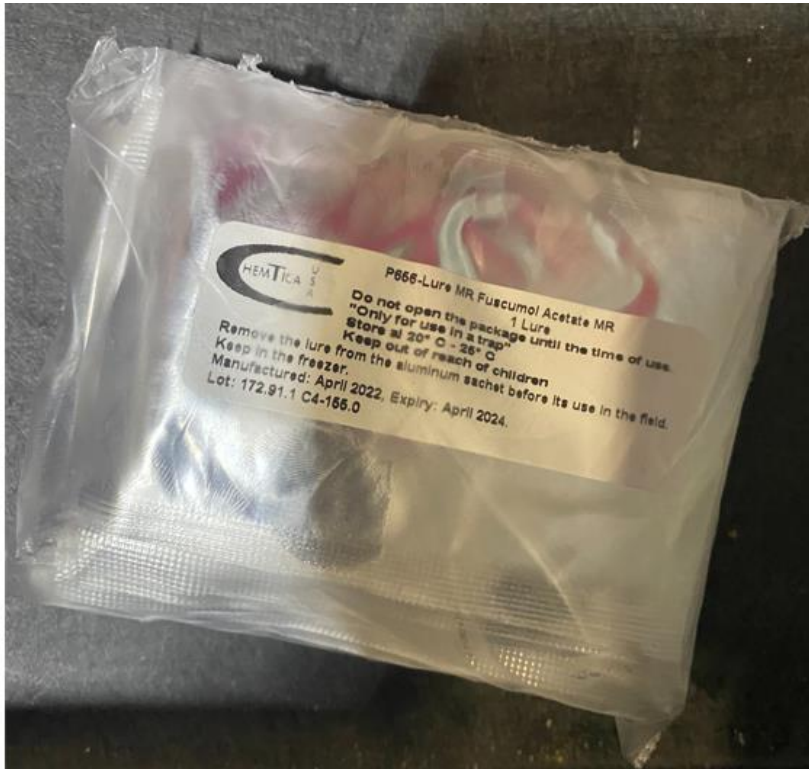
### Data Entry:

When entering NAPIS data for this survey method, use these NAPIS codes:

- **Pest Code:** INALKJA: Cerambycid - 6 diol/ketone
- **Lure Code:** 172: 6-diol Lure - 6-ketone Lure - Ethanol Lure - Fuscomol acetate Lure - Geranyl Acetol Lure - Monochamol Lure

## Photos of new lures

**Figure 1. Fuscomol acetate Lure**



**Figure 2. 6-Ketone Lure**



**Figure 3. 6-Diol Lure**

