



VINE MEALYBUG (VMB) TRAPPING AND SURVEY PROTOCOL FOR CONTAINER GROWN GRAPEVINE NURSERY STOCK

- A. Trapping Season** – Trap deployment should occur from when plants are potted until they are shipped.
- B. Trap** - Delta Trap (Pink Bollworm) with a VMB lure containing a pheromone such as Lavandulyl senecioate.
- C. Trap Density and Placement** -
1. Inside of a structure place traps in areas of perceived risk such as points of entry or sorting areas. Place at least one trap per 10,000 square feet or less.
 2. Outside of a structure place one trap per 20 acres.
 3. Traps should be placed so as to not interfere with moveable or stationary over-vine irrigation systems and should not be wetted by irrigation water
 4. Traps should be placed so that the ends of the traps are not blocked.
- D. Servicing Requirements** -
1. Traps should be inspected every two weeks.
 2. Lures should be replaced according to the manufacturer's recommendation.
 3. Please note: If trapping in an area known to be or suspected of being infested with VMB, be cautious of accidentally spreading crawlers (first instars) within or among grapevines or to other trapping locations. Recommended sanitation procedures include cleaning or changing footwear or wearing disposable booties. Other personal protective equipment could include items such as disposable overalls and gloves.
- E. Submittal/Determination** - Traps are deployed and managed by the California Department of Food and Agriculture (CDFA) or the county agricultural commissioner (CAC) staff. They are submitted to the CDFA Plant Pest Diagnostic Center (PPDC) to verify the presence of VMB and determine if the count exceeds five or more male *Planococcus ficus*.
- F. Relocation** - Relocation of a trap should be done only if the trap is impeding nursery practices or has been destroyed.
- G. Positive Finds/Visual Survey** - Walking surveys shall be conducted by the CDFA or CAC staff in an attempt to find and verify the VMB infestation. A mature female VMB must be found and then identified by the PPDC to verify an infestation.
1. Inside a structure walking surveys shall be conducted when five or more male mealybugs have been identified by the PPDC from a single trapping interval.
 2. Outside of a structure walking surveys shall be conducted when five or more male mealybugs have been identified by the PPDC in a single trap.

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H. Standards of Cleanliness – If during a survey an infestation is verified by the presence of a mature female VMB, the grapevine material no longer meets the standards of cleanliness (California Code of Regulations(CCR), Title 3, Section 3060.2). The grapevine material may not be sold or shipped and is subject to enforcement action in accordance with CCR, Title 3, Section 3060.4. There is no treatment protocol to facilitate the shipment of green growing grapevine nursery stock currently available.