

**Protocols for the Management and Movement of Regulated Articles Produced in Areas  
Quarantined for European Grapevine Moth (*Lobesia botrana*)**

**TREATMENT OF GREEN WASTE**

**Overview**

The purpose of this document is to outline specific measures, as defined by each section, for the effective management and safe interstate movement of regulated fruit from all of the quarantine areas within California. These protocols apply to every harvest season and to any grower/producer of regulated fruit as noted in the Federal Order in California.

**Introduction and Scope**

In the fall of 2009, *Lobesia botrana* or European grapevine moth (EGVM) was detected and confirmed in Napa County, California. Since that time, detections have been made in ten additional counties.

This protocol identifies procedures and requirements for the treatment of green waste under the Federal Order and provides safeguarding measures that will prevent the spread of EGVM while facilitating the ability of an individual to provide a certified product.

**Definition**

**'Green Waste'** is vegetative material, such as stems, leaves, culls, compost, discarded fruit, grass clippings, weeds, yard, roadway and green space trimmings, wood/vine/processing/harvesting waste, hulls, branches and stumps, home garden/vineyard residues, and other miscellaneous plant materials.

**Outline of Requirements**

Green waste, as defined above, presents negligible risk for spread of *Lobesia botrana* if:

1. All green waste undergoes deep burial to a level of at least 2 feet deep; **or**,
2. Heat treated as listed below to meet the USDA requirements for certification of heat treated green waste for movement outside of the *Lobesia botrana* quarantine area.
  - a. Hot water immersion at 180°F (82.2°C) for 1 minute
  - b. Hot water immersion at 140°F (60.0°C) for 5 minutes

Note: All green waste material must be completely submerged at the treatment temperature for the entire duration of the treatment. If the water temperature drops below the target treatment temperature when the green waste is introduced to the water bath, or at any time during the treatment, the treatment time must be restarted.

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All temperature equipment used to monitor the water bath temperature must be calibrated at least once annually (at a minimum). Calibrations can be performed by the equipment manufacturer if a certificate of calibration is issued, or by USDA staff using the procedure outlined in the green waste composting schedule.