

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

OTHER THAN FRESH GRAPES (i.e. tree fruit, berries):

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 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 interstate movement under the Federal Order of regulated fruit out of a quarantine area and provides safeguarding measures that will prevent the spread of EGVM while facilitating the ability of a grower to provide a certified product.

Definitions

Certificate---A document, stamp or imprint in which an inspector affirms that a specified regulated article meets all applicable requirements of the Federal Order and may be moved interstate to any destination.

Diamond Stamp--- A special stamp that is applied under the following circumstances:

- a. To the packing containers of regulated fresh fruit identifying that it has been grown within the quarantine area and meets the requirements for shipping.
- b. To the pallet card/tag of pallets containing fresh fruit identifying that it has been grown outside the quarantine area and packed/stored/treated within the quarantine area and meets the requirements for shipping.

Fumigation Treatment Lot-- Comprises all eligible fruit presented for an APHIS approved treatment.

Pallet Card/Tag – A uniquely numbered card or tag attached to each pallet of fruit that identifies the orchard, grower lot, fumigation treatment lot, variety and date for purposes of trace back to the source of the fruit.

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

OTHER THAN FRESH GRAPES (i.e. tree fruit, berries):

Orchard-- A land area (A block or group of contiguous blocks) clearly delineated by a physical barrier (e.g. ranch road, canal, avenue between the trees, highway, etc) planted with cultivated trees that produce peaches, plums, apricots and other similar fruit for fresh consumption or processing.

Grower Lot--- A subdivision of an orchard uniquely identified.

Outline of Requirements

1. Preventive Orchard or Field Treatments

Growers that ship other than fresh grapes must have in place an IPM program that implements methods shown to be effective against *L. botrana*, as outlined by the U. S. Department of Agriculture (USDA) Animal and Plant Health Inspection Service (APHIS) and/or the University of California Cooperative Extension. This is required regardless of whether *L. botrana* has been detected in their orchards or fields. All orchards or fields treatment records are to be retained by growers and made available to regulatory officials upon request.

2. Field Inspection by Regulatory Agencies

Calculate the number of plants (trees or bushes) to be surveyed and amount of tree fruits or berries to be sampled from the growing ground (orchard or field) using the following table:

Acres	Plants to be surveyed	Number of tree fruits to be sampled	Pounds of berries to be sampled
1-40	60	300	20
41-45	64	320	21
46-50	68	340	22
51-55	71	355	23
56-60	75	375	24
61-65	79	395	25
66-70	83	415	26

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

OTHER THAN FRESH GRAPES (i.e. tree fruit, berries):

71-75	86	430	27
76-80	90	450	28
Over 80	Add one plant per 2 acres	Add 5 fruits per 2 acres	Add ¼ pound (4 oz) per acre

Note: Program staff **WILL NOT** remove fruit from plants. The grower will be responsible to remove the fruit from plants under program staff supervision. All sampled fruit will be left with the grower.

Two-thirds of the plants surveyed will be evenly distributed around the outer perimeter and one-third will be located within the interior of the growing ground (e.g., a 40 acre growing ground would require 40 plants from the perimeter and 20 plants from the interior to be surveyed).

The surface of all sampled fruit will be inspected for entry holes or other possible insect damage. If suspect insect damage is found on any piece of fruit, it will be thin cut and closely examined for *Lobesia botrana*.

If no life stages of *Lobesia botrana* are found in fruit, a Certificate of Quarantine Compliance (CQC) will be issued for the specific growing ground from where fruit samples were taken. A CQC will be valid for 30 days from the issue date.

If harvesting in any growing ground continues for more than 30 days after a CQC is issued, field inspections will be repeated and a new CQC issued.

3. Maintaining Identity

All eligible fruit presented for inspection will have information that traces the grower lots back to a specific orchard. When harvested, all grower lots will carry pallet tags, cards or specific markings for purposes of trace back to a specific orchard.

All fruit found to be infested with EGVM will be identified by a specific fumigation treatment number. All fumigation treatment lots will carry pallet tags, cards or specific markings for purposes of trace back to a specific orchard.

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

OTHER THAN FRESH GRAPES (i.e. tree fruit, berries):

4. Records

Shippers must maintain records of regulated articles shipped for a period of 3 years and make such records available to an inspector upon request.

5. Receiving and Storage of Fruit

Fruit received from an area not under quarantine and designated to be stored in an approved facility located within a quarantine area is required to be segregated, safeguarded, and identified by the diamond stamp on the pallet card/tag during the entire period of storage to prevent possible EGVM contamination.

Fruit from a quarantine area moving out of the quarantine to an approved facility under a limited permit is required to be segregated, safeguarded, and identified by the diamond stamp on the packing containers during the entire period of storage to prevent possible EGVM contamination.

6. Transporting Harvested Fruit

Transporting any uninspected or untreated fruit from inside the quarantine area to approved facilities outside the quarantine area for inspection and/or for treatment is **NOT** allowed under the Federal Order except under a Limited Permit. Transport of uninspected or untreated fruit is required by covered trucks and all pallets and packed boxes are required to be safeguarded, securely covered, segregated and appropriately marked and identified by pallet card/tag to prevent possible EGVM contamination. All trucks and/or conveyances must be thoroughly cleaned immediately following delivery and all waste is to be disposed of as outlined in the Federal Order.

Transporting fruit from outside the quarantine area into an approved facility within the quarantine area is allowed provided the fruit is safeguarded and readily identifiable by a diamond stamp on the pallet card/tag that identifies an orchard in an area not under quarantine.

Transit of fruit from an area not under quarantine to another area not under quarantine through a quarantine area is allowed, however, no stops are to be made except for those required for public safety (e.g. stoplights).

7. Postharvest Treatment of Fruit from Orchards with EGVM

Postharvest treatment of fruit from orchards found with EGVM at inspection will be subject to mitigation by fumigation following APHIS approved treatment guidelines and treatment schedules.

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

OTHER THAN FRESH GRAPES (i.e. tree fruit, berries):

All fruit found to be infested with EGVM will be identified by a specific fumigation treatment number. All fumigation treatment lots will carry pallet tags, cards or specific markings for purposes of trace back to a specific orchard.

8. Compliance Agreements

Growers and shippers that harvest and ship fruit from the quarantine area must do so under a Compliance Agreement issued by the EGVM Program.

9. Certification

All regulated fruit eligible to move interstate under this protocol may only be moved if all boxes and/or containers plus all pallet cards/tags as required are properly marked with a diamond stamp and each shipment is accompanied by a certificate.
