EUROPEAN GRAPEVINE MOTH

NOT KNOWN TO OCCUR IN IDAHO

Common Name: European Grapevine Moth

Scientific Name: *Lobesia botrana*

European grapevine moth was first reported in the United States from Napa County vineyards in October 2009. Native to Southern Italy, it was first described from Austria and is now found throughout Europe, North and West Africa, the Middle East and eastern Russia. It was more recently introduced into Japan, and in 2008, it was first reported in Chile.
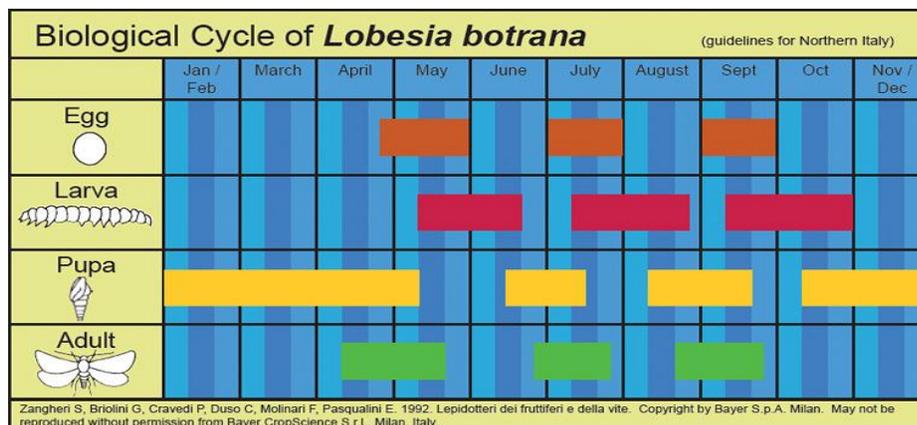
Host

The host range for European grapevine moth is diverse. In addition to *Vitis vinifera* (cultivated grape), they also feed on other important agricultural crops like apple, cherry, nectarine, persimmon, plum, pomegranate and olive.

Description

The adult moth is approximately 0.24 to 0.3 inch (6-8 mm) long, with a wingspan of 0.4 to 0.5 inch (11-13 mm), with the female being slightly larger. Both males and females have similar mosaic-patterned wings. The first pair of wings (forewings) is tan-cream in color, mottled with gray-blue, brown, and black blotches. The second pair of wings is gray with a fringed border. The wings are held in a bell shape over the abdomen when at rest.

Life Cycle

Biological Cycle of *Lobesia botrana* (guidelines for Northern Italy)

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Damage

In May and June, first-generation larvae web and feed on the flower clusters. Second-generation larvae (July-August) feed on green berries. Young larvae penetrate the berry and hollow them out, leaving the skin and seeds. Third-generation larvae (August-September) cause the greatest damage by webbing and feeding inside berries and within bunches, which become contaminated with frass (excrement). Additionally, feeding damage to berries after veraison exposes them to infection by *Botrytis* and other secondary fungi such as *Aspergillus*, *Alternaria*, *Rhizopus*, *Cladosporium*, and *Penicillium*. Secondary pests such as raisin moth (*Cadra figulilella*), fruit flies, and ants may also be attracted to damaged berries.

Other Resources

www.ipm.ucdavis.edu/EXOTIC/euro**grapevinemoth**.html

http://www.cdfa.ca.gov/PHPPS/egvm/index.html

http://www.sonoma-county.org/agcomm/european_gv_moth.htm

Reported Status of
European Grapevine Moth , Lobesia botrana
in US and Puerto Rico
Data retrieved from National Agricultural Pest Information System on 01/17/2012

Infestation Status

- Established—Consensus
- Established—Survey
- Not Established
- Being Eradicated
- Eradicated
- Not Found

The Center for Environmental and Regulatory Information Systems does not certify the accuracy or completeness of the map.

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