**What are grape berry moths?**

The European grapevine moth (*Lobesia botrana*) and the American berry moth (*Polychrosis viteana*) are both grape berry moths. The moths’ larvae feed on grape flowers and fruits, causing direct damage as the larvae penetrate the berry and hollow out the grapes, leaving only the skin and seeds.

**What do they look like?**

The European grapevine moth is about 5 mm long and has a light brown body, with grey to brown irregular patches on the wings. Young larvae are yellowish green with a dark brown head and are about 1 mm in length. When mature, larvae are about 10–15 mm long and vary in colour from light yellowish green to pale brown, with a yellowish brown head.

The American berry moth is about 6 mm long and has a brown body, with grey-purple bands across the wings and cream with brown spots near the wing tips. Young larvae have a cream body and dark brown head. When mature, the larvae are 10 mm long and become green, then purple with a light brown head.

The only accurate method to effectively identify between the two Grape berry moths is laboratory dissection of the genitalia.

**What should I look for?**

Both species of grape berry moth cause nearly identical symptoms. However, it is the larvae, rather than the adult moths which are responsible for the majority of the damage to grapevines. Adult females lay eggs on individual grapes, blossoms and stems. Young larvae feed on blossoms or berries, often webbing together entire clusters.

Mature larvae then tunnel into berries and feed inside, leaving a hollowed-out berry with only the skin and seeds. At harvest, severely infected bunches may contain several larvae, and many of the berries may be completely hollowed-out and have an unhealthy appearance. Damage is compounded by secondary infection of rot pathogens, such as grey mould (*Botrytis cinerea*).
How do they spread?

Adults are highly mobile and can rapidly move between host plants. Larvae can be transported through infested fruit and grapevine material.

Where are they now?

The American berry moth is present throughout North America. The European grapevine moth is present throughout Europe, the Mediterranean, southern Russia, Japan, the Middle East, northern and western Africa, Chile as well as North America.

How can I protect my vineyard from grape berry moths?

Only source high health status (preferably certified) plant material from reliable and accredited suppliers.

Check your vineyard frequently for the presence of new pests and investigate any sick grapevines for unusual symptoms. Make sure you are familiar with common grapevine pests so you can tell if you see something different.

Ensure all staff and visitors adhere to on farm biosecurity and hygiene practices.

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