

Plant protection care for the vine in May

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During this period, the vines are from the phenophase “*bud swelling*” to the appearance of the “*first inflorescences*”.

Powdery mildew

The pathogen overwinters in the buds and on the shoots as mycelium, which starts to develop at a temperature of 6.2°C. Powdery mildew attacks all green parts of the plant – leaves, shoots, inflorescences and berries.

Powdery mildew (oidium)

Pest control strategy

In the presence of symptoms on the shoots, the first spraying is carried out at the phenophase “*green shoot (butterfly)*” or at a shoot length of 6-8 cm.

Authorised plant protection products: Acidal WG - 0.25%; Vivando - 20 ml/da; Dinali 090 DC - 50-65 ml/da; Domark 10 EC - 25-30 ml/da; Cabrio Top - 0.2%; Orius 25 EW/Dynasty 25 EW/Tebumax 25 EW - 0.04%; Talendo 20 EC - 20-25 ml/da; Talendo Extra - 7.5-25 ml/da; Thiovit Jet 80 WG - 0.3%; Flint Max 75 WG - 0.016%; Folicur 250 EW/Horizont - 0.04%; Folpan 80 WDG - 0.15%; Sercadis - 15 ml/da; Luna Experience - 12-40 ml/da; Kumulus DF - 200-300 g/da; Sonata SC - 500 ml/da; Topas 100 EC - 30 ml/100 l spray solution.

Vines are most susceptible to excoriose after bud swelling

Excoriose of grapevine

In a cool and wet spring, the disease develops strongly. From the attacked buds, the shoots emerge later and have shortened internodes, while the leaves are small and deformed. The symptoms on the green shoots are: dark, dot-like swellings which enlarge into bigger, dark brown, elongated spots. The critical period for disease development is from “*bud swelling*” to the phenophase “*3rd - 4th leaf*”.

Pest control strategy

The first treatment is carried out when 30-40% of the buds are in the phenophase from “*green shoot (butterfly)*” to “*first leaf separated*”. In a cool and rainy spring, a second spraying is carried out when 30-40% of the buds at the base of the shoots are in the phenophase “*second-third leaf*”. The subsequent treatments coincide with the sprayings against downy mildew and powdery mildew in the vineyard.

Authorised plant protection products: Mikal Flash - 0.3%; Momentum Extra WG - 300 g/da; Solofol - 188 g/da; Thiovit Jet 80 WG - 1250 g/da; Follow 80 WG/Freeler 80 WG/Flowet 80 WG - 187.5 g/da; Kumulus DF - 750 g/da; Delan 700 WDG - 50 g/da; Quadris 25 SC - 0.075-0.1% (75-100 ml/da with 100 l/da spray solution); Microthiol Special Liquid – 1210 ml/da;



European grapevine moth

At the end of April, the flight of butterflies of the overwintered generation and the beginning of egg laying start. Depending on the temperatures, the eggs hatch after 4-10 days.

European grapevine moth (*Lobesia botrana*)

Pest control strategy

Treatment should be carried out at the **EPV** (economic threshold) – for table grape varieties *4-6 eggs or larvae/100 inflorescences*, and for wine varieties – *6-8 eggs or larvae/100 inflorescences*.

Authorised plant protection products: Aphicar 100 EC - 40 ml/da; Decis 100 EC - 12.5-17.5 ml/da; Dipel 2 X - 0.1%; Efcymertrin 10 EC/Tsiper 10 - 40 ml/da; Karate Zeon 5 CS - 0.02%; Coragen 20 SC/Voliam – 15-27 ml/da (vineyards – wine varieties) and 15-21.6 ml/da (vineyards – table varieties); Mageos - 10 g/da; Rapax - 75-100 ml/da; Sumi Alpha 5 EC/Sumicidin 5 EC - 0.025%; Foray 48 B - 0.15%; Cyclone 10 EC - 40 ml/da; Citrin Max/Cyperkill 500 EC/Cypert 500 EC/Poly 500 EC - 6 ml/da; Sherpa 100 EC - 40 ml/da, Delmur - 50 ml/da, Kedu - 40 ml/da.



Grapevine erineum mite

Damage is caused by the larvae and adult mites, which suck sap from the lower leaf surface and, less frequently, from the upper surface. At the feeding sites, as a result of enzymes secreted by the mites, the tissues proliferate and become deformed. Galls are formed, concave on the lower and convex on the upper surface.

Grapevine erineum mite

Pest control strategy

Spraying is carried out at a shoot length of 6-8 cm, when the mites become active and move onto the young leaves, before they have formed galls.

Authorised plant protection products: Kumulus DF - 1250 g/da; Microthiol Special Liquid – 1930 ml/da; Thiovit Jet 80 WG - 1500 g/da; Heliosoufre C – 750 ml/da, Apollo 50 SC – 30-40 ml/da, Shirood (former Masai WP) – 25 g/da.

