

# Plant protection care for vine in May

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*Date:* 14.05.2017 *Issue:* 5/2017



During this period, the vines are in the phenophase „*first inflorescences appearance*” to „*full flowering*”.

## Main pests for the period

Downy mildew of grapevine *Plasmopara viticola*

Powdery mildew *Oidium tuckeri*

Grey mould *Botrytis cinerea*

Grape erineum mite *Eriophyes vitis*

**European grapevine moth** *Lobesia botrana*

**Grape leafroller** *Sparganothis pilleriana*

**Grape leaf weevil** *Byctiscus betulae*

**Grape scale** *Pulvinaria vitis*

**Yellow grapevine mite** *Schizotetranychus viticola*

## • Downy mildew of grapevine

Depending on the age of the leaves, downy mildew forms two types of spots: oily and mosaic. On their underside a white sporulating growth is formed. Under heavy attack, the leaves dry up and fall prematurely. Under favourable conditions (relative air humidity above 75%), chlorotic spots are formed on the inflorescences and clusters, on which a white sporulating growth also develops. When the spots are at the base of the bunch, the entire cluster dries out. Infection of the berries stops when, for wine varieties, they reach the size of a „pea, and for table varieties the size of a „bean”.

## Strategy for pest control:

Treatments are carried out when favourable conditions for infection occur (air temperature above 13°C and frequent but light rainfall) and at a susceptible phenophase of the vine „flowering” - „pea size”.

## Authorized plant protection products:

acrobat r – 0.25%; acrobat plus wg – 200 g/ha; axanit-cu wp – 0.25%; alial 80 wg - 75-330 g/ha; alfil wg - 0.075-0.33 kg/ha; alfil wp - 0.075-0.33 kg/ha; alfil duplo - 90-350 g/ha; amalin flo - 280 ml/ha; antracol 70 wg – 0.15%; armetil m – 0.25%; armetil-s wp – 0.25%; banko 500 – 0.2%; bordeaux mix 20 wp – 0.5-0.6%; valbon - 180-200 / ha; verita wg – 0.2%; winker wg – 200 g/ha; vitene triplo r - 400 -450 g/ha; vitra 50 wp /cuprohy 50 wp – 0.15%; galben 8 m 65 – 0.25%; delan 700 wdg – 0.05%; dimix 500 sc - 34 ml/ha applied in tank mixture with products containing folpet; dimix 500 sc - 30 ml/ha applied in tank mixture with products containing mancozeb; ditan dg - 200 g/ha; ditan m-45 - 200 g/ha; drago 76 wp – 0.16%; enervin – 0.2%; cabrio top – 0.15%- treatment interval 7-10 days - 0.2% every 10-14 days; katanga express - 75-330 g/ha; katanga man - 300-500 g/100 l water; corseyt r df – 0.25%; corseyt r wp – 0.25% until 09.2017; corseyt max wp – 0.15%; quadris 25 sc – 0.075%; cupertine m – 0.3%; cuproxat fl / tribase flowable – 0.3% until 06.2017; cuproset gold m – 0.15%; cuprocin super m – 0.2%; lieto - 40-45 g/ha; mancozeb 80 wp – 0.3%; manfil 80 wp - 200 g/ha; manfil 75 wg - 210 g/ha; medeiro 80 wg- 75-330 g/ha; copper oxychloride 50 wp – 0.25%; medyan extra 350 sc - 350 ml/ha; melody compact 49 wg - 150 -175 g/ha until 06.2017; mycal flash – 0.3%; mildicut - 350-450 ml/ha; moximat 505 wg - 240-300 g/ha; moximat 505 wp - 240 – 300 g/ha; momentum extra wg - 300 g/ha; pasodoble 70 wg - 200 g/ha; pencozeb 80 wp - 200 g/ha ; pencozeb 75 wg - 210 g/ha; pergado copper 27 wg - 500 g/ha; pergado f 45 wg –

0.2%; profiler 71.1 wg- 200-225 g/ha; ridomil gold mz 68 wg – 0.25%; rumba 35 sc – 0.35%; sankozeб 80 wp - 200 g/ha; sinstar - 70-80 ml/ha; solofol - 188 g/ha; strobi df /discus df - 0.015 %+acrobat mz - 0.15 %; sphinx extra /vinostar - 180 g/ha; folder 80 wg - 150 g/ha ; follow 80 wg/ friller 80 wg/ flowet 80 wg - 187.5 g/ha; folpan 80 wdg - 0.15 % - 0.1 %+ardent 50 sc - 0.015 %; funguran oh 50 wp – 0.15%; shavit f 72 wdg – 0.2%; champion wp/ macc 50 wp /champ wp – 0.155.

## ● Grape leaf weevil

The beetles appear at the beginning of May. They feed on buds, flowers and leaves. The females gnaw through the petioles of several young leaves and interrupt the sap flow to them, after which they roll them like a cigar around one central leaf whose petiole is not gnawed, and in it they lay several eggs. The central leaf remains relatively fresh and dries later, and the hatched larvae feed on it.

### Strategy for pest control:

When the population density increases, treatments are carried out against the adults before egg laying.

### Authorized plant protection product:

deca ec/ desha ec/ dena ec - 40 - 60 ml/ha;

*A detailed description and control of diseases and pests for the period can be found in issue 5/2017 of the journal "Plant Protection"*