

Diseases of Grapes

1. Downy mildew: *Plasmopara viticola*



Symptoms

- Irregular, yellowish, translucent spots on the upper surface of the leaves. Correspondingly on the lower surface, white, powdery growth on leaves.
- Premature defoliation. Dwarfing of tender shoots. Brown, sunken lesions on the stem.
- White growth of fungus on berries which becomes leathery and shrivels.

Management

- Spray Bordeaux mixture 1 % or Metalaxyl + Mancozeb 0.4 %

2. Powdery mildew: *Uncinula necator*



Symptoms

- Powdery growth mostly on the upper surface of the leaves.



- Floral infection results in shedding of flowers and poor fruit set.
- Powdery growth is visible on older berries and the infection results in the Cracking of skin of the berries.

Management

- Spray Inorganic sulphur 0.25 % or Chinomethionate 0.1 % or Dinocap 0.05 %.

3. Bird's Eye Spot/Anthracnose: *Gloeosporium ampelophagum*



Symptoms

- The disease appears first as dark red spots on the berry. Later, these spots are circular, sunken, ashy- gray and in late stages these spots are surrounded by a dark margin which gives it the “bird’s- eye rot” appearance.
- The fungus also attacks shoots, tendrils, petioles, leaf veins, and fruit stems.
- These spots may unite and girdle the stem, causing death of the tips.

Management

- Removal of infected twigs. Copper oxychloride 0.2% or Mancozeb 0.25%.