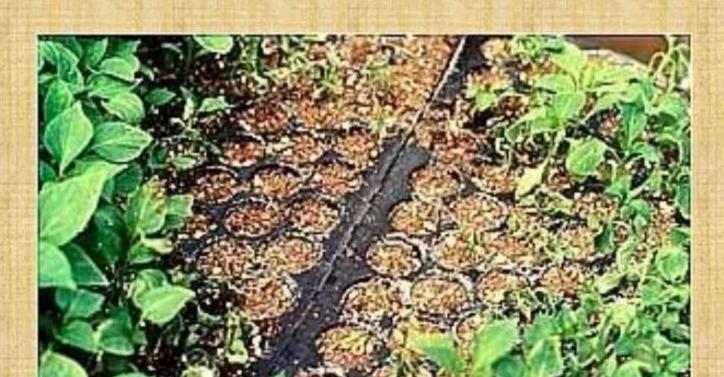




DISEASES OF CHILLIES

- 1. Damping-off: Pythium aphanidermatum
- · 2. Powdery mildew: Leveillula taurica
- 3. Fruit rot and Die-back : Colletotrichum capsici
- 4. Leaf spot : Cercospora capsici
- 5. Bacterial spot: Xanthomonas Campestris

Damping-off: Pythium aphanidermatum



Symptoms:

- · water soaked lesions on the collar region.
- Browning and shrivelling of stem tissues
- seedling collapse and topple over.





 The fungus: Produce sporangia, zoospores, and oospores.

Mode of spread and survival:

Spread: Soil-borne-Through irrigation water, implement during cultural operations etc.

Survival: oospores in the soil.



- Favourable conditions:
- Excessive soil moisture
- High humidity
- Over crowding of seedling



Management:

- Use light soil –Nursery
- Raised seed bed
- Light & frequent irrigation
- Proper drainage
- Soil drench with copper fungicide





Powdery mildew: Leveillula taurica

Symptoms:

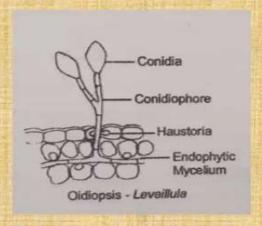
- White powdery coating on the lower surface, also on the upper surface.
- Upper surface yellow patches are seen
- Severe infection drying and shedding of affected leaves.







- Etiology: Fungus
- Oidiopsis type-produce single celled, hyaline conidia.
- Mode of spread and Survival:
- Spread: air-borne conidia
- Survival: As dormant mycelium in crop debris



- Favourable conditions:
 - warm &cloudy weather favours
- Management:
- Spray Karathane 0.07% or
- Wettable sulphur 0.25%

Fruit rot and Die-back: Colletotrichum

capsici

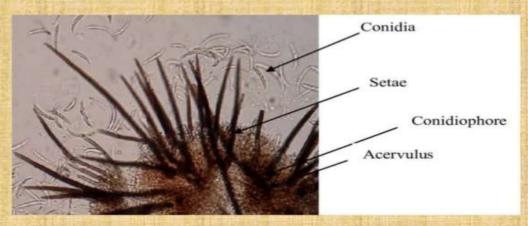
- Symptoms:
- Shedding of flowers due to the infection at pedicel
- · die-back of branches.
- Fruit infection:
- · Ripe fruits are more attack than the green ones.
- Severe infection result in the shriveling and drying of fruits.
- fruits become white in colour and lose their pungency.
- minute black dot fruiting bodies called 'acervulli'
- The affected fruits fall off







- Etiology: Colletotrichum capsici Produces hyaline, single celled sickle shaped conidia.
- Mode of spread and survival:
- Spread: Through infected seeds (Externally seed-borne) and air-borne conidia.
- Survival: On the infected fruits.



- Optimum temp. 22-25°
- Humid weather with rainfall at frequent intervals.
- Management:
- · Collect seeds only form fruits without infection.
- Crop debris collect and destroy.
- Seed treatment with captan or Thiran 4g/kg
- Spraying mancozeb 0.25%

Bacterial spot : Xanthomonas Campestris Pv. vesicatoria

- Symptoms:
- Small circular to irregular water soaked areas on the lower surface of the leaves.
- The spot bulges & it turn purple with a black centre.
- A narrow yellow halo may surround the spots.
- · The leaves dries and whole leaf dies.
- Green fruits are also infected and it turn brown to black





- Mode of spread and survival:
- Primary spread seed borne bacteria
- Spread by rain flash.



- Management:
- · Seeds should be collected from healthy fruits,
- Seed treatment with copper oxychloride 2g/kg seed.
- Spraying Agrimycin 100 at 100 ppm.