



CASTOR DISEASES

Important Diseases

- Major Diseases
 - 1. Phytophthora blight Phytopthora parasitica
- Minor Diseases
 - 1. Rust Melampsora ricini
 - 2. Wilt Fusarium oxysporum fsp ricini
 - 3. Grey mold Botrytis cineria
 - 4. Leaf spot Cercospora ricinicola

Seedling Blight

♦ Phytopthora parasitica

Symptoms

- 1. The disease appears circular, dull green patch on both the surface of the cotyledon leaves.
- 2. It later spreads and causes rotting.
- 3. The infection moves to stem and causes withering and death of seedling.
- 4. In mature plants, the infection initially appears on the young leaves and spreads to petiole and stem causing black discoloration and severe defoliation



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Etiology

- Coencocytic mycelium
- ❖Sporangia, Chlamydospores, Oospores

*****Disease cycle

***** Primary infection

Chlamydospores, Oospores

- **Secondary infection**
- Zoospores and Sporangia

*****Favourable Conditions

- ✓ Continuous rainy weather.
- ✓ Low temperature (20-25°C).
- ✓ Low lying and ill drained soils.

*****Management

- 1. Field sanitation
- 2. Ensure Drainage
- 3. Remove and destroy infected plant residues.
- 4. Avoid low-lying and ill drained fields for sowing.
- 5. Treat the seeds with thiram or captan at 4g/kg
- 6. Foliar spray Bordeaux mixture 1% or Metalaxyl plus mancozeb @ 0.2%

Rust

❖Melampsora ricini



Wilt

❖ Fusarium oxysporum fsp ricini



Grey mold

❖Botrytis cineria





Cercospora leaf spot

Cercospora ricinicola

