

Diseases of Ornamental Plants

إعداد

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Damping-off of seeds, seedlings and cuttings



Condition favoring damping-off

.Overhead misting -
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Captan

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Benzimidazols

Thiophanate methyl (Topsin-M) -

.Metalaxyl (Subdue) -

.Propamocarb (Banol) -

Botrytis Blight or Gray Mold

Botrytis

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.Gray Mold

Dust

Smoky Gray

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Automated trickle irrigation systems

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: Botrytis

.Sclerotia () -

.(Chlamidospores) -

: Sites of first infection

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.Fading flowers -

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Topsin-M, Benlate (Benomyl)

Benzimidazoles

- Chlorothalonil, Mancozeb (Dithane).
- Mancozeb + Copper.
- Kocid (Copper hydroxide).

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- *Trichoderma harizianum*.
- *Streptomyces griseoviridis*

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Fungal Root Rots



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.Azaleas

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Stereoscopic

microscope

:Management using fungicide

- Metalaxyl (Subdue).
- Banrot.
- Propamocarb (Banol).

- Penta chloronitrobenzene (PCNB).
- Banrot class III

Fusarium, Phytophthora,

(Etridiazole + thio phanate methyl)

Banrot

Pythium, Rhizoctonia

Phytophthora Root Rot

Phytophthora

Cloropicrin – Methyl Iodide – Meta Sodium – Dazomat



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Final Planting Site (Home or Commercial Planting)

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- ◆
- ◆

- Metalaxyl (Subdue).
- Propamocarb (Banol).
- Etridiazole.
- Etridiazole + Thiophanate methyl.

Powdery Mildew

Kalanchôe – African violet – Rose – Lilac – Zinnias – English ivy – Photinia – Begonias – Oak.

Erysiphe cichoracearum

- ◆
- ◆
- ◆
- ◆
- ◆

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Kalanchôe

Scab-like spots

Corky



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Vapor Gard or Wiltpruf

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- Chlorothalonil.
- Horticultural oil.
- Paraffinic oil.
- Potassium bicarbonate.
- Piperalin.
- Thiophanate methyl.
- Mancozeb.

Pythium Root Rot

Pythium

(1) *P. irregulare*

(2) *P. aphanidermatum*

(3) *P. ultimum*



P. irregulare

P. aphanidermatum



.Conductive soil

P. irregulare and *P.*

aphanidermatum

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.Root tips



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Pythium

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- Metalaxyl (Subdue).
- Propamocarb (Banol).
- Etridiazole.
- Etridiazole + Thiophanate methyl.

- *Trichoderma* (Plant shield- Bio trak).
- *Bacillus* (Companion).
- *Streptomyces* (Mycostop).
- *Gliocladium* (Soil grad).

Rhizoctonia diseases



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Sclerotia

.Basidiospores



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Captan •

Thiophanate methyl •

Chlorothalonil (Daconil 2787) •