5

П

5

DAMPING-OFF (*Pythium, Rhizoctonia,* and others)

Damping-off occurs when seeds or young seedlings are destroyed by soil-borne pathogens. Infection that takes place on seeds or before the seedlings emerge is known as pre-emergence damping-off. When seedlings have already emerged above the soil line and are attacked at the roots or below the soil, the disease is called post-emergence damping-off.

Seeds become soft and mushy, then turn brown, shrink, and finally disintegrate. Infected areas become water-soaked and discoloured. Damaged stems cannot support the plant so it falls over onto the soil where further infection occurs.



Damping-Off

Life Cycle

The two main damping-off organisms, *Pythium* and *Rhizoctonia* normally infect only plants under stress, for example, improper temperature or excess water. *Pythium* can be introduced via contaminated water, or soil, and infected plant tissue. *Rhizoctonia* survives in contaminated soil and on plant tissue. Successive plantings of the same crops and soft growth due to excess nitrogen can lead to infection problems. Mature zoospore (ready to germinate)

Hosts

Damping-off may occur in the seed or seedling stages of all plants.

See Also:

Root Rot

Wilt



Damping-Off



. Sutherland

Pythium Damping-Off

Disease Cycle of Damping-off and Seed Decay, caused by *Pythium* spp.

