

# **ONION PEST DIAGNOSTIC PROFILES**

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## **ONION PESTS:**

Fusarium Basal Rot

Pink Root

Smut

Stem & Bulb Nematode

Purple Blotch

Downy Mildew

Botrytis Diseases

Black Mold

Blue Mold

Smudge

Xanthomonas Leaf Blight

Bacterial Soft Rot / Pantoea

Slippery & Sour Skin

Bacterial Leaf Streak

Aster Yellows (Phytoplasma)

Onion Yellow Dwarf Virus

Iris Yellow Spot Virus

## PEST DIAGNOSTIC PROFILE

**Common Name:**

Fusarium Basal Rot

**Scientific Name:**

*Fusarium oxysporum f. sp. cepae*

**Pathogen Type:** fungus

**Survival Means:**

spores, crop debris, sets



## PEST DIAGNOSTIC PROFILE

**Common Name:**

Pink Root

**Scientific Name:**

*Phoma terrestris*

**Pathogen Type:** fungus

**Survival Means:**

spores, pycnidia, crop debris, sets



Photos by H. F. Schwartz

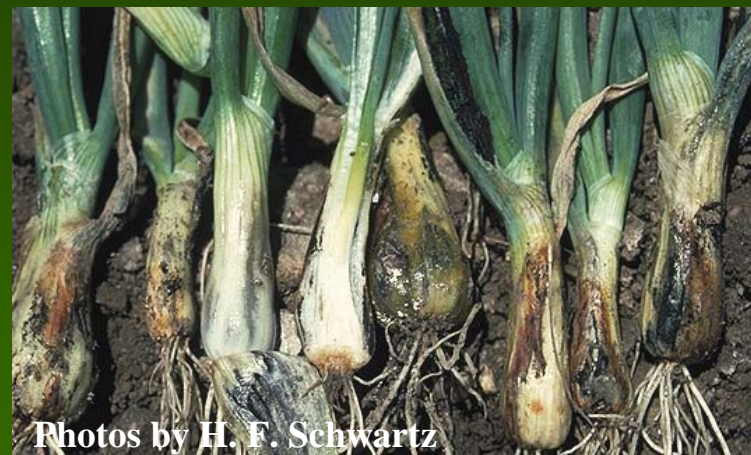
## PEST DIAGNOSTIC PROFILE

**Common Name:**  
Smut

**Scientific Name:**  
*Urocystis colchici*

**Pathogen Type:** fungus

**Survival Means:**  
spores, crop debris, sets



Photos by H. F. Schwartz



## PEST DIAGNOSTIC PROFILE

**Common Name:**

Stem & Bulb Nematode

**Scientific Name:**

*Ditylenchus dipsaci*

**Pathogen Type:** nematode

**Survival Means:**

eggs, juveniles, crop debris, sets, culls



Photo by E. Kurtz



Photo by H. F. Schwartz

## PEST DIAGNOSTIC PROFILE

**Common Name:**  
Purple Blotch

**Scientific Name:**  
*Alternaria porri*

**Pathogen Type:** fungus

**Survival Means:**  
spores, crop debris, sets, culls



Photos by H. F. Schwartz

## PEST DIAGNOSTIC PROFILE

**Common Name:**

Downy Mildew

**Scientific Name:**

*Peronospora destructor*

**Pathogen Type:** fungus

**Survival Means:**

spores, seed, crop debris, sets, culls



Photos by H. F. Schwartz



## PEST DIAGNOSTIC PROFILE

**Common Name:**

Botrytis Diseases

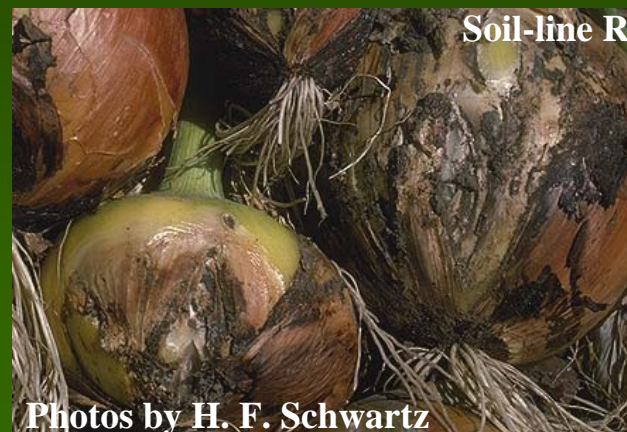
**Scientific Name:**

*Botrytis species*

**Pathogen Type:** fungus

**Survival Means:**

spores, sclerotia, seed,  
crop debris, sets, culls



Photos by H. F. Schwartz



## PEST DIAGNOSTIC PROFILE

**Common Name:**

Black Mold

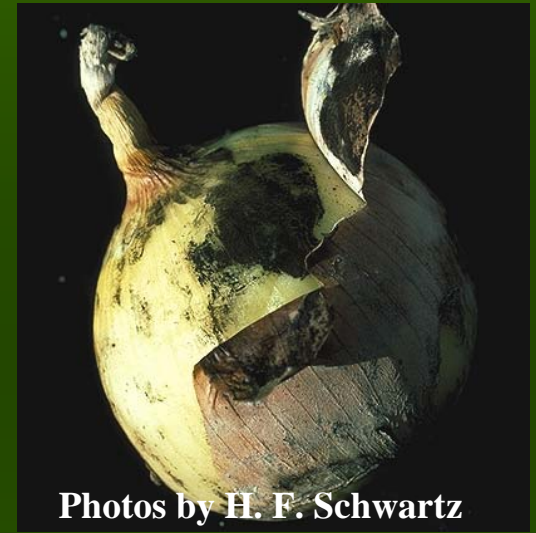
**Scientific Name:**

*Aspergillus niger*

**Pathogen Type:** fungus

**Survival Means:**

spores, seed, crop debris, sets, culls



Photos by H. F. Schwartz



## PEST DIAGNOSTIC PROFILE

**Common Name:**

Blue Mold

**Scientific Name:**

*Penicillium species*

**Pathogen Type:** fungus

**Survival Means:**

spores, crop debris, culls



Photo by R. M. Davis

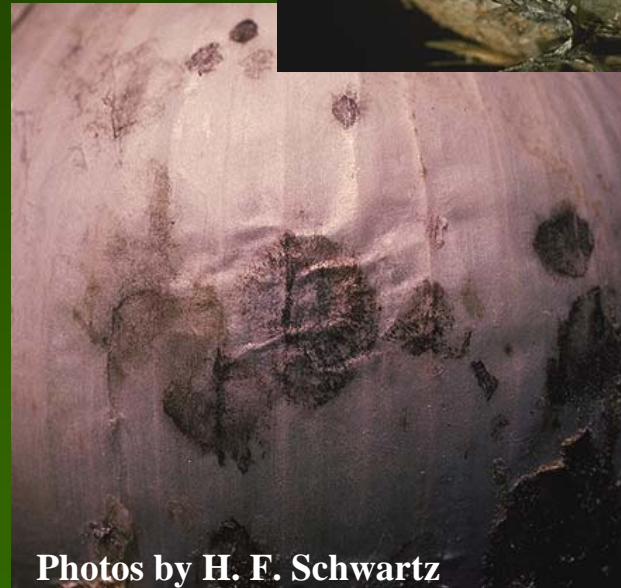
## PEST DIAGNOSTIC PROFILE

**Common Name:**  
Smudge

**Scientific Name:**  
*Colletotrichum circinans*

**Pathogen Type:** fungus

**Survival Means:**  
spores, crop debris, culls



Photos by H. F. Schwartz

## PEST DIAGNOSTIC PROFILE

**Common Name:**

**Xanthomonas Leaf Blight**

**Scientific Name:**

*Xanthomonas axonopodis* pv. *allii*

**Pathogen Type:** bacterium

**Survival Means:**

bacterial cells, crop debris, sets



Photos by H. F. Schwartz



## PEST DIAGNOSTIC PROFILE

### Common Name:

Bacterial Soft Rot / Pantoea Center Rot

### Scientific Name:

*Pectobacterium* (= *Erwinia*) *carotovorum* subsp. *carotovorum*, *Dickeya* (= *Erwinia*) *chrysanthemi*, *Pantoea ananatis*

**Pathogen Type:** bacterium

### Survival Means:

bacterial cells, crop debris, sets,  
onion maggots



Photos by H. F. Schwartz

## PEST DIAGNOSTIC PROFILE

### **Common Name:**

Slippery & Sour Skin

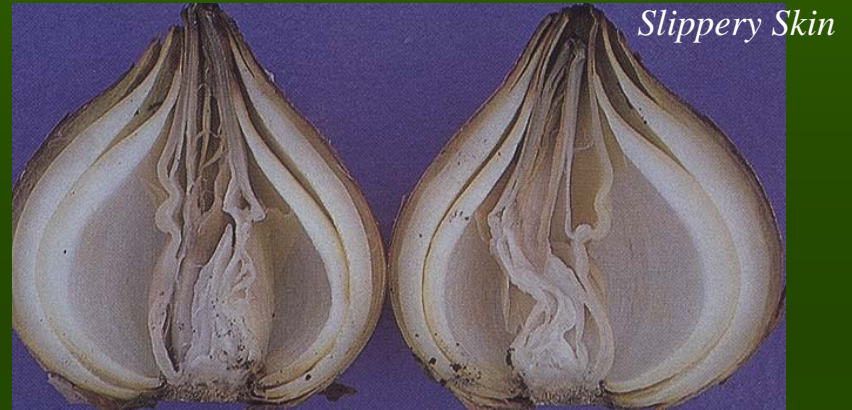
### **Scientific Name:**

*Burkholderia gladioli* pv. *alliicola*  
& *B. cepacia*

**Pathogen Type:** bacterium

### **Survival Means:**

bacterial cells, crop debris, sets



Photos by Agr. Canada

## PEST DIAGNOSTIC PROFILE

**Common Name:**

Bacterial Leaf Streak

**Scientific Name:**

*Pseudomonas viridiflava*

**Pathogen Type:** bacterium

**Survival Means:**

bacterial cells, crop debris, sets



Photo by H. F. Schwartz

## PEST DIAGNOSTIC PROFILE

### **Common Name:**

Aster Yellows

### **Scientific Name:**

*Phytoplasma Organism*

**Pathogen Type:** phytoplasma organism  
(Mollicute) + leafhopper vector

### **Survival Means:**

weeds, volunteer onions



Photos by H. F. Schwartz



## PEST DIAGNOSTIC PROFILE

### **Common Name:**

O Y D V - potyvirus

### **Scientific Name:**

*Onion yellow dwarf virus*

**Pathogen Type:** virus + aphid vector

### **Survival Means:**

sets, volunteer onions



Photo by R. M. Davis



Photo by Agr. Canada

## PEST DIAGNOSTIC PROFILE

### **Common Name:**

I Y S V - tospovirus

### **Scientific Name:**

*Iris yellow spot virus*

**Pathogen Type:** virus +  
Thrips vector

### **Survival Means:**

Volunteer Onions, Thrips,  
Weeds



Photos by H. F. Schwartz