

Name that Disease!



What is this disease?

- a. Pythium leak
- b. Bacterial soft rot
- c. Fusarium dry rot
- d. Pink rot





F. culmorum *F. oxysporum* *F. redolens* *F. sambucinum* *F. coeruleum*

Answer: c. Fusarium dry rot

Management: Clean seed, sharpen knives, seed treatments

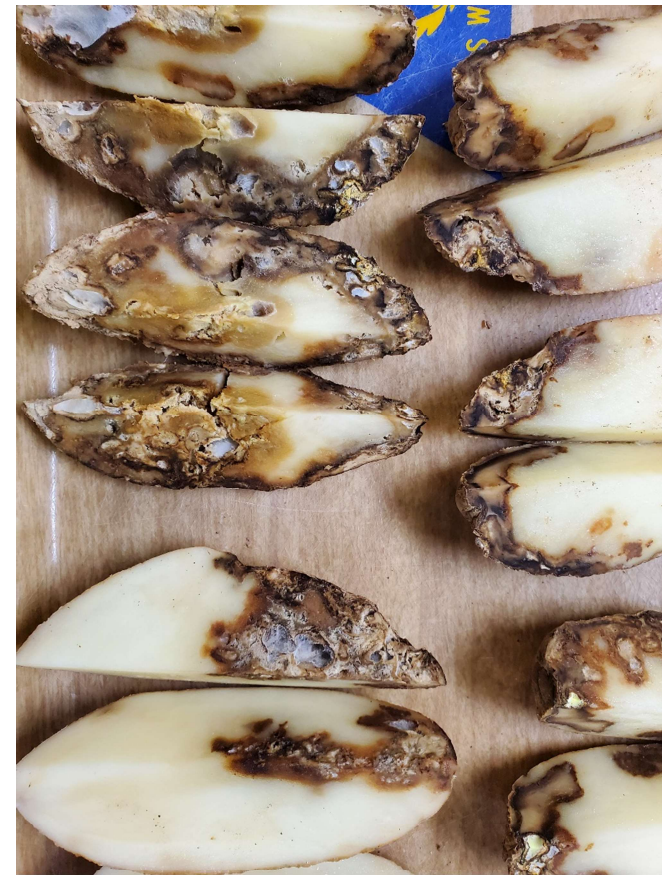
First four images courtesy of C. Christian and K. Duellman



Fusarium infection in vascular system.



Fusarium infection followed by bacterial soft rot.



Fusarium dry rot in Clearwater Russet

What is this disease?

- a. More Fusarium dry rot
- b. Bacterial soft rot
- c. Pythium leak
- d. Toxic seed piece syndrome





Fig. 4A and 4B. Potato leaves showing interveinal chlorosis and bronzing. Photo Source: Carrie Wohleb, WSU.



Figure 2. Potato seed piece with a translucent and gelatinous appearance typically associated with TSPS. (Phil Hamm and Jordan Eggers, Oregon State University).

Answer: d. Toxic seed piece syndrome

Management: ????

MICHIGAN Potato Diseases



Toxic Seed Piece Syndrome

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Pacific Northwest
Vegetable Extension Group

Identification & Management of Emerging Vegetable Problems in the Pacific Northwest

Pacific Northwest Vegetable Extension Group

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Toxic Seed Piece Syndrome (TSPS)

What is this disease?

- a. Late blight
- b. Gray mold
- c. Fertilizer burn
- d. Early blight







Answer: a. Late blight

Management: clean seed, protective fungicide program

What is this disease?

- a. Herbicide damage
- b. Potato Virus Y
- c. Early blight
- d. Potato leafroll virus



Ranger Russet



Ranger Russet infected with PVY n:o



Yukon Gold with PVY Nwi

Alturas with PVY ntn



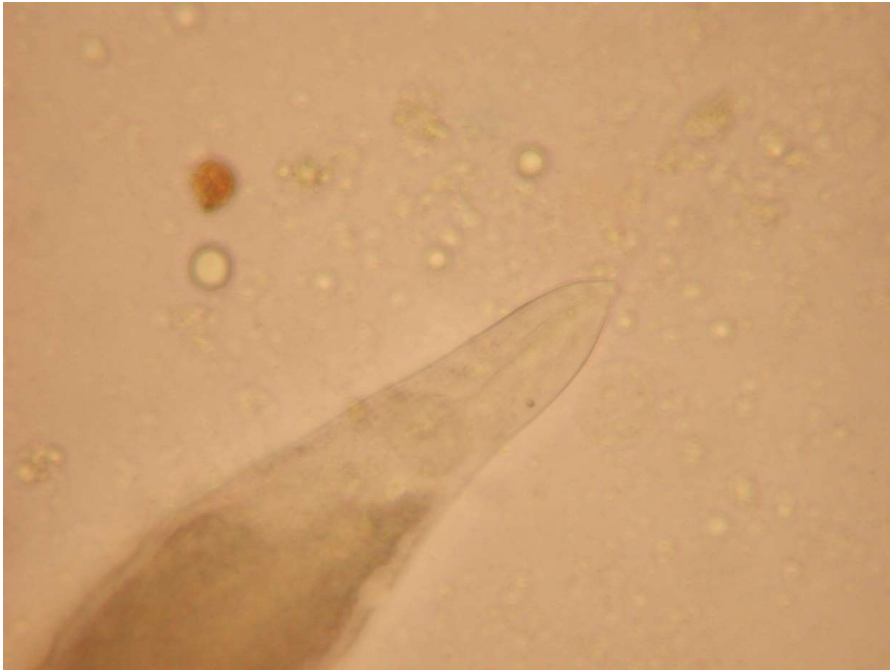
Answer: b. Potato Virus Y

Management: clean seed, roguing

What is this disease?

- a. Root knot nematode
- b. Powdery scab
- c. Common scab
- d. Potato mop-top virus





Answer: a. Root knot nematode

Management: rotation, nematicides



What is this disease?

- a. Roundup drift
- b. Potato wart
- c. Powdery scab
- d. Potato mop-top virus



Image from Bayer Crop Science

Image from Wikipedia





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Potato wart or potato canker – *Synchytrium endobioticum*

Potato wart disease is caused by a soil-borne fungus, *Synchytrium endobioticum*, that attacks the growing points on the potato plant, such as eyes, buds and stolon tips. The fungus can be dormant in soil for more than 40 years while it waits for the ideal conditions to grow: a cool, wet spring and a nearby potato plant.



Potato wart detected in Prince Edward Island (PEI)

In October 2021, the Canadian Food Inspection Agency (CFIA) confirmed the presence of potato wart in 2 fields on PEI. We immediately initiated an investigation and implemented strict regulatory measures to prevent potential spread.

[Find more information about the situation in PEI.](#)

<https://inspection.canada.ca/plant-health/invasive-species/plant-diseases/potato-wart-or-potato-canker/eng/1327933703431/1327933793006>

Answer: b. Potato wart

Management: quarantine

What is this disease?

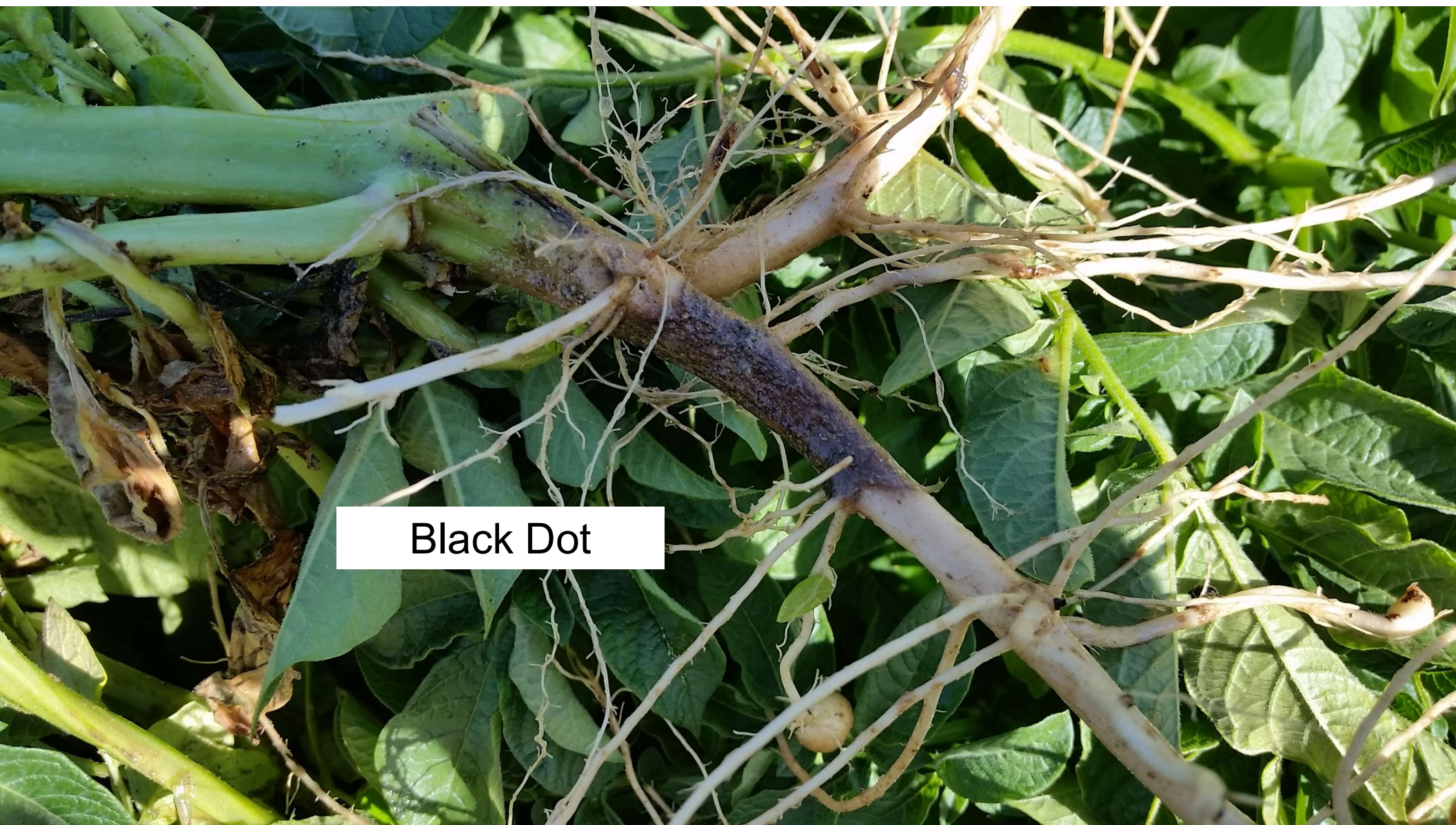
- a. Rhizoctonia canker
- b. Blackleg
- c. Black dot
- d. Powdery scab





Answer: a. (Rhizoctonia canker) and c. (black dot)

Management: Rotation, fungicide for Rhizoc, unknown for black dot



Black Dot



Rhizoctonia canker

Thanatephoris cucumeris
Sexual stage of Rhizoctonia
Not known to be problematic



What is this disease?

- a. White mold
- b. Gray mold
- c. Black dot
- d. (Not a disease)





Bird's nest fungus



Sclerotinia sclerotiorum
apothecia (WM)

Answer: d. Not a disease – bird's nest fungus

Management: None needed. It's a good sign.

Sclerotia of the white mold fungus



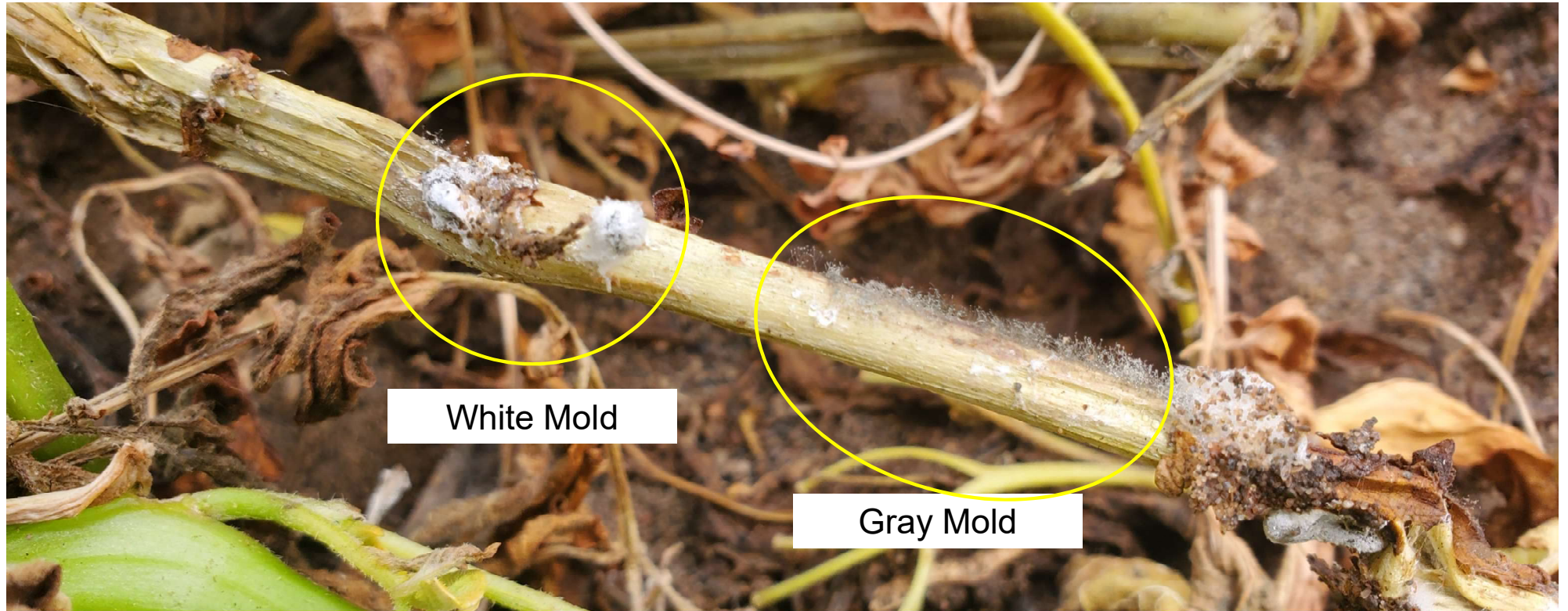


Sclerotium of the white mold fungus
with apothecia (mushrooms)

What is this disease?

- a. White mold
- b. Gray mold
- c. Black dot
- d. Aerial stem rot



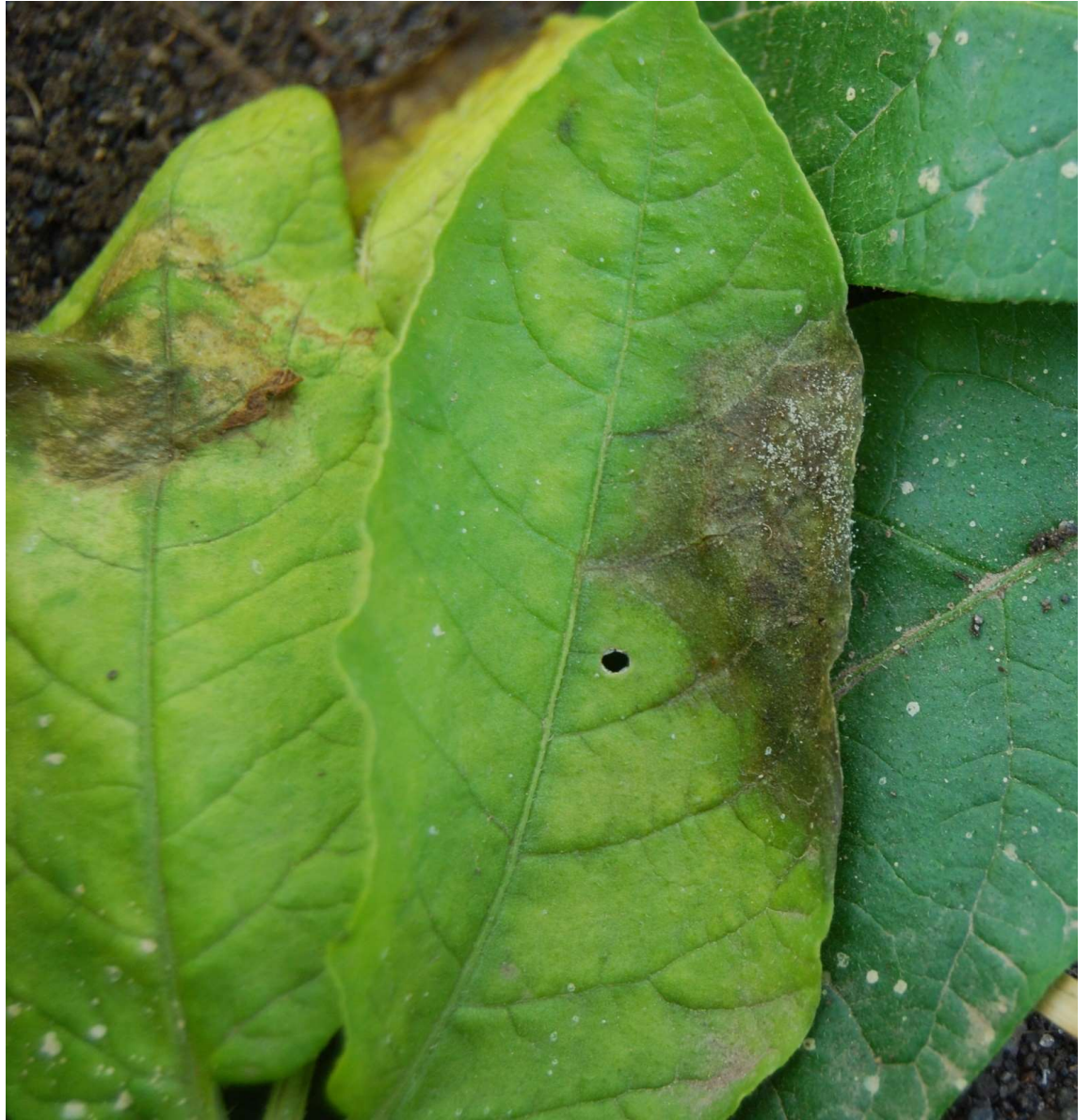


Answer: a. white mold and b. gray mold

Management: Foliar fungicides

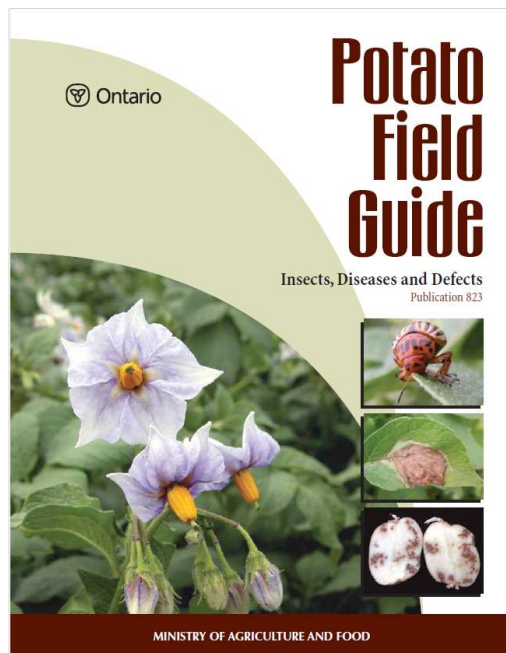


Gray mold



Resource for Potato Disease Identification

- <https://spudsmart.com/ontarios-potato-field-guide-available-to-view-online/>



Proper diagnosis is important!

- Multiple diseases/disorders can look similar.
- The wrong diagnosis can lead to the wrong treatment.
- Use available resources.
 - University of Idaho Extension, other labs

