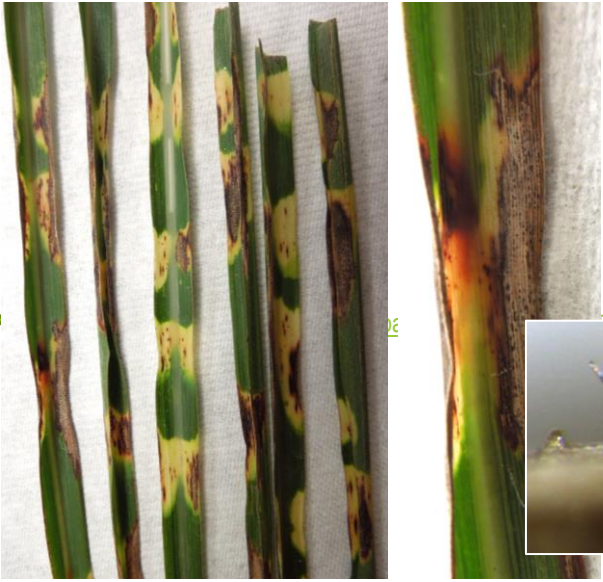


Anthracnose Disease of Miscanthus: Guidelines for Growers



- Miscanthus is susceptible to anthracnose caused by the fungus *Colletotrichum*.
- Anthracnose is primarily a problem on *M. sinensis* varieties.
- Interestingly, the fungus infects the light colored areas of the leaf blade.
- The infected and bordering leaf tissue may turn a fiery orange color, which is often mistaken as the normal coloration of the leaf.
- As the disease progresses, the infected tissue becomes necrotic.
- Black, whisker-like fungal structures may be observed within the tan, necrotic leaf lesions.

- Curative approaches to managing anthracnose generally do not provide adequate control.
- Anthracnose can be a stress-induced disease
- Keep plants evenly moist
- Use a slow release, medium rate fertilizer
- Space plants to reduce humidity within the canopy
- Drip irrigate, or water when leaves will dry the quickest
- Preventive fungicide applications will help to manage this disease.

- *Colletotrichum* can develop resistance to fungicides.
- Fungicides that have a single-site inhibitor are at most risk for having the fungus develop resistance.
- There is widespread resistance to Qol and benzimidazole fungicides. To prevent disease resistance rotate products with different modes of action.

- Infection likely starts long before symptoms are expressed.
- Plant stress or hot temperatures with high humidity and moisture may trigger disease development.
- Depending on geographic region, symptoms may appear mid-season and the disease continues to progress until natural senescence.
- The ideal time to apply fungicides may be about one month prior to when symptoms have been first observed in prior growing seasons.



A. Windham UTK

Fungicide	Active ingredient	Chemical class
Daconil Ultrex	Chlorothalonil	nitrile
Empress Intrinsic	Pyraclostrobin	Qol
Heritage	Azoxystrobin	Qol
Disarm	Fluoxastrobin	Qol
Trinity	Triticonazole	DMI
Affirm	Polyoxin D	polyoxins
Medallion	Fludioxonil	phenylpyrroles
3336*	Thiophanate-methyl	benzimidazole
*tank mix with Daconil		

Suggested rotation: Daconil / Qol / Daconil / Trinity / Daconil / Affirm or Medallion or 3336