



Gray Leaf Spot

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October 2025

Pest Background

- Gray leaf spot is caused by the fungal pathogen, *Cercospora zeae-maydis*.
- This disease is favored by warm temperatures over 80°F, and extended periods of high humidity.
- Fungal spores overwinter in corn crop residue, increasing chances for infection on non-rotated crops.

Identification

- Gray leaf spot symptoms begin as small brown lesions in the lower canopy, and travel upwards as the season progresses.
- As lesions expand, they are limited by leaf veins, giving them a distinct, rectangular shape (Figs 1 and 2).
- Lesions become grayer in color as sporulation begins (Fig 3).
- Leaves can easily be overtaken by the rapid development of this disease.



Fig 1: Corn leaf displaying GLS symptoms. Photo by M. Henrickson

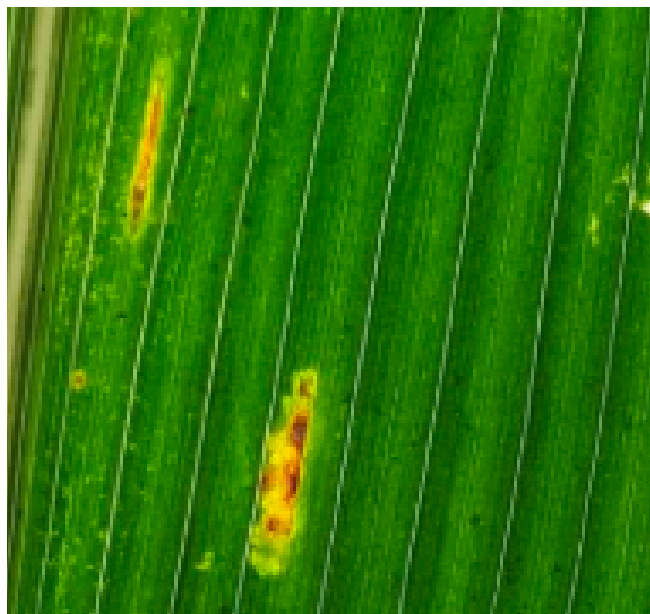


Fig 2: An early GLS lesion, shapes are easier to identify when backlit. Photo by M. Henrickson



Fig 3: A sporulating GLS lesion. Photo by M. Henrickson

Management

- Cultural practices like tillage and crop rotation can decrease inoculum load.
- Resistant hybrids are available that can tolerate GLS.
- Fungicides labeled for use on GLS can be sprayed on corn according to the label.

References

Crop Protection Network . (2022, January 27).
Retrieved from Gray Leaf Spot of Corn:
<https://cropprotectionnetwork.org/encyclopedia/gray-leaf-spot-of-corn>

UD Cooperative Extension. (n.d.). Gray Leaf Spot on Corn. Retrieved from Agriculture & Natural Resources:
<https://www.udel.edu/academics/colleges/canr/cooperative-extension/fact-sheets/gray-leaf-spot-on-corn/>

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