CROPFOCUS

Southern Leaf Blight

Southern Leaf Blight (SLB) Facts

- Fungal disease caused by *Cochliobolus heterostrophus* (also known as *Bipolaris maydis*)
- Thrives in warm-temperate or subtropical corngrowing environments, including the southeastern U.S.
- Overwinters primarily in surface debris from the previous corn crop
- Spores are windblown or splashed by water to new crop leaves where they germinate and infect the plant
- \bullet Development is favored by warm (70 to 85 $^\circ\,$ F), moist

weather and free water on the leaf

• Under ideal conditions, the fungus is able to complete its life cycle in only 60 to 72 hours

Impact on Crop

- Can cause significant loss of corn leaf area when conditions favor the disease
- Loss of leaf area results in reduced photosynthesis, lowering yield potential and increasing risk of stalk rots
- The earlier the disease begins in the growing season, the greater the potential for yield reduction
- Ear and cob rots may also occur due to this fungus



Symptoms

- · Lesions are generally:
 - from 1/8 to 1/4 inch wide by 1/8 to 1 inch long
 - tan in color
 - rectangular to oblong in shape
 - · usually found on leaves
 - variable, making identification more difficult than for other diseases
- Lesion type may depend on hybrid genetics
- Lesions usually develop first on lower leaves and work up the plant



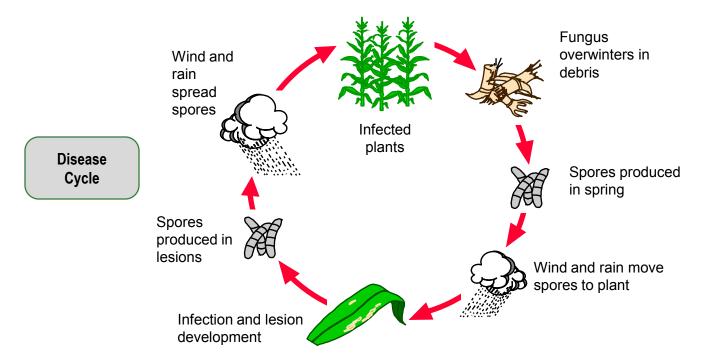


SCLB may resemble gray leaf spot, but these characteristics differentiate lesions:

Southern Leaf Blight	Gray Leaf Spot
Much less uniform than	Uniformly shaped, do not
gray leaf spot. Irregular	extend beyond leaf veins.
shapes extend beyond leaf	Young lesions have yellow
veins.	halo around brown center



PIONEER



Management

- Genetic resistance
 - Most effective form of management
 - · Pioneer breeders have selected for resistant parent lines and hybrids for over 30 years
 - Hybrid ratings range from "3" to "7" on Pioneer's 1 to 9 scale (9 = resistant)
 - · Growers in high-risk areas with a history of SLB occurrence in their fields should choose hybrids with a "6" or "7" rating for SLB resistance
- Crop rotation to reduce corn residue level and help break disease cycle
- Tillage to encourage breakdown of crop residue
- Fungicide application

Fungicide Application

Scout corn to detect SLB early

DUPONT BUSINESS

- Monitor disease development, crop growth stage, and weather forecast
- Apply a foliar fungicide if:
 - · Disease is spreading rapidly or likely to spread and yield may be affected
 - · Disease level exceeds threshold established by your state extension plant pathologist
- Common fungicides include Headline, Quadris, Quilt, PropiMax EC, Stratego and Tilt



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- [®] PropiMax is a registered trademark of Dow AgroSciences.
- [®]Quadris, Quilt and Tilt are registered trademarks of a Syngenta Group Co. [®] Stratego is a registered trademark of Bayer AG.

