

Favorable Conditions for Disease Development - Corn

Disease	Pathogen	Favorable conditions
Seedling Blight/ Root Rot	Fungus/ Fungal Like	Fusarium and Pythium (cool and wet) Rhizoctonia (warm and wet)
Anthracnose Leaf Blight	Fungus	Wet, cloudy conditions with moderately warm temperatures
Goss's Wilt	Bacteria	Warm (80 F), wet weather
Gray Leaf Spot	Fungus	Warm (80s F), relative humidity > 90% for > 12 hours
Northern Corn Leaf Blight	Fungus	Extended periods of leaf wetness (rain or dew), cool to moderate temperatures (64 – 82 F)
Eyespot	Fungus	Cool temps (70 F), rainy conditions/persistent dew
Common Rust	Fungus	High humidity, night temps 65 – 70 F and moderate day temps. Short period leaf wetness (min. 6 hours)
Southern Rust	Fungus	High humidity, temps around 80 F, and short period leaf wetness (min. 6 hours)

Favorable Conditions for Disease Development – Corn cont.

Disease	Pathogen	Favorable conditions
Crazy Top	Fungal	Prolonged flooding (24 – 48 hrs), ponding, and intense rain during early veg. stages
Common Smut	Fungal	Spread by wind and water
Physoderma Brown Spot	Fungus	Light, free water, and warm temps (75 – 85 F)
Holcus Leaf Spot	Bacteria	Warm, rainy weather (early in season)
Southern Corn Leaf Blight	Fungus	Warm temperatures, extended periods of cloudy weather and frequent rain showers
Stewart's Disease	Bacteria	*Survival of corn flea beetle

Favorable Conditions for Disease Development - Soybean

Disease	Pathogen	Favorable conditions
Seedling Blight/ Root Rot	Fungus/ Fungal like	Fusarium and Pythium (cool and wet) Rhizoctonia (warm and wet) Phytophthora (saturated soils and soil temps > 60 F)
Bacterial Blight	Fungus	Cool (< 80 F) and rainy
SCN	Nematode	Favorable growing season
Brown Spot	Fungus	Warm (80s F) and rainy
Bacteria Pustule	Fungus	Warm and rainy
Downy Mildew	Fungal-like	High humidity and moderate temps
Powdery Mildew	Fungus	Cool (< 75 F), cloudy, low humidity
Frogeye Leaf Spot	Fungus	Warm and humid