Crop Pest Identification



Here's what to look out for when you're out scouting for pests.



CUTWORMS

Conditions

- Late planting or
- Weedy growth

Look For

Prevention

- Early diagnosis is key to
- minimizing cutworms and damage to crops

 Inspect seedlings for bare areas, holes in foliage, and wilting leaves



WIREWORM

Conditions

- Planted early in cold conditions
- Fields with grassytype plants
- In wet areas of a field

Look For

- Hard-bodied
- Shiny yellow to brown
- Young plants appear wilted

Prevention

Bait stations set up 2-3 weeks prior to planting



SEED CORN MAGGOT

Conditions

Look For

Fly has a greyish-brown body. Can be mistaken

Prevention

- Plant during warm soil temperatures for quick seed germination



TWO-SPOTTED SPIDER MITE

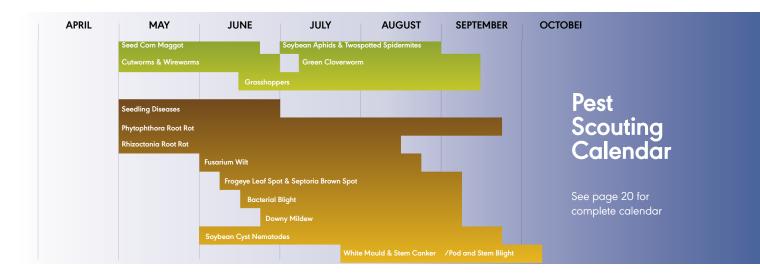
Conditions

Look For

- Greenish yellow to orange to brown
- Pierced leaves

Prevention

- Natural predators, such as fungi and thrips



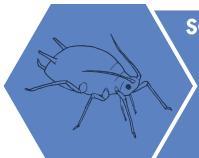


GRASSHOPPER

Conditions

Look For

Prevention



SOYBEAN APHID

Conditions

Temperatures in the low to mid 20s

Look For

- Yellow-bodied with
- Can have wings
- Causes shorter plant height
- More honeydew on leaves

Prevention

- Spray insecticide before aphids reach 1,000 per plant
- Scout fields in July for aphids



GREEN CLOVER WORM

Conditions

Look For

- Young larvae feed on the entire plant
- Older larvae feed on the upper canopy

Prevention

Fungal disease which favours warm temperatures with high humidity



WHITE MOULD

Conditions

- (20°C-26°C)
- High yield potential soybean crop with

Look For

- White, fluffy, cottony mycelial growth
- Wilted leaves

Look For

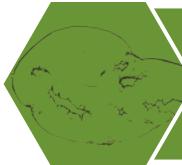
- Bleached and shredded looking stems
- Sclerotia (resembles mouse droppings)

Starts as small brown

spots that spread to the full leaf

Prevention

Longer crop rotation



BACTERIAL BLIGHT

Conditions

- Common on young leaves
- Cool, wet weather,
- Disease dissipates in hot dry weather
- Spreads by wind and rain

Prevention

- Diverse crop rotations
- Plant resistant varieties



SEPTORIA BROWN SPOT

Conditions

- Symptoms develop
- Warm, wet conditions

Look For

- Infects lower canopy leaves. In a warm rainy season it infects the top.
- Rusty-brown or yellow leaves fall in the early season

Prevention

Crop rotation of more



PHYTOPHTHORA ROOT ROT

Conditions

- Wet and warm soil conditions
- Clay and compacted soils
- Saturated soil early in the season

Look For

- Early Season: Stems appear bruised and are soft. Secondary roots rotted.
- Mid-Late Season: Brown lesions appear on the roots. Plants may die.

Prevention

- Select soybeans with major gene resistance (Rps)
- Increase drainage in your field where possible



FROGEYE LEAF SPOT

Conditions

- onset can lead to

Look For

- surface of the leaf
- Infects leaf, stem, water-soaked spots

Prevention



DOWNY MILDEW

Conditions

Hot, dry conditions

Look For

- Greenish yellow to orange to brown patches
- Pierce leaves and feed on plant juices

Prevention

- Natural predators, such as fungi and thrips



RHIZOCTONIA ROOT ROT

Conditions

- Warm soil temperatures
 Rusty-brown, dry sunken
 High quality seed
- Delayed emergence
- Soil types with organic matter

Look For

- roots near the soil line
- roots may occur
- Affects seedlings and older plants

Prevention

- Good agronomic



FUSARIUM WILT

Conditions

- Early in the growing

Look For

Prevention

- Fungicidal seed



STEM CANKER/POD AND STEM BLIGHT

Conditions

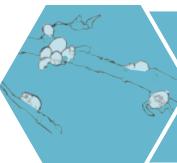
- Dry weather with high population
- Drought conditions

Look For

- Round or ragged holes in leaves
- Damage to soybean pods

Prevention

- Spray insecticide before aphids reach 1,000 per plant
- Scout fields in July



SOYBEAN CYST NEMATODES

Conditions

Look For

- Stunted, yellow looking plants with root damage
- Symptoms are identified most accurately by below-ground analysis

Prevention

- Reduce other pests such as weeds, insects, and diseases