

Black Streak Virus

Early Symptoms

- Symptoms of Banana streak virus showing lines of yellow in large blocks from midrib to leaf edge, turning brown or black with age.

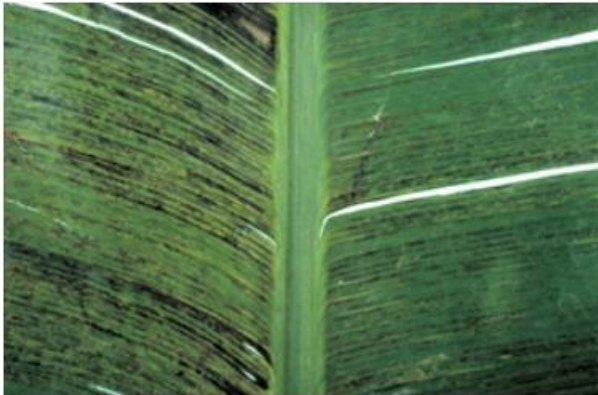


Photo 1. Symptoms of *Banana streak virus* showing lines of yellow in large blocks from midrib to leaf edge, turning brown or black with age.

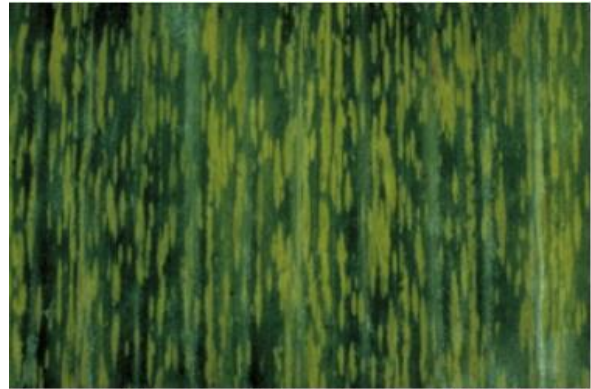
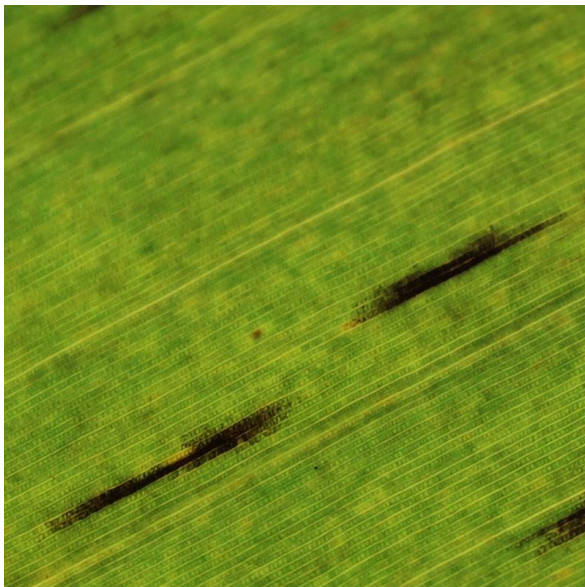


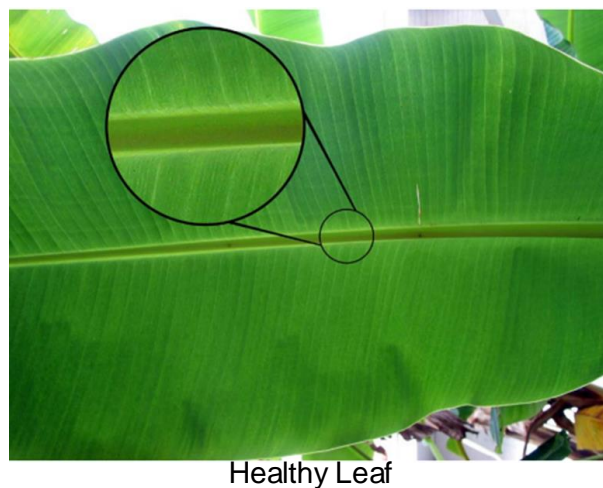
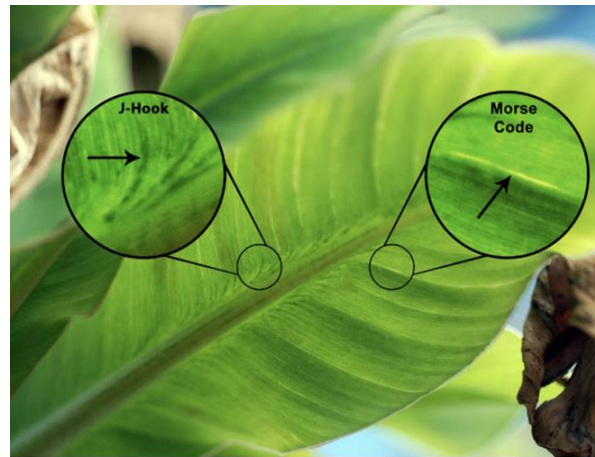
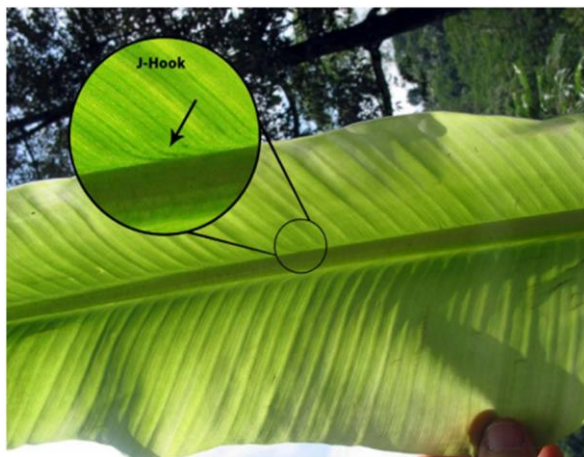
Photo 2. Close up of the yellow and black lines caused by *Banana streak virus*.



Bunchy Top Virus

Early Symptoms:

Leaves have dark green streaks and 'J' shaped hooks along the midrib of the leaf.

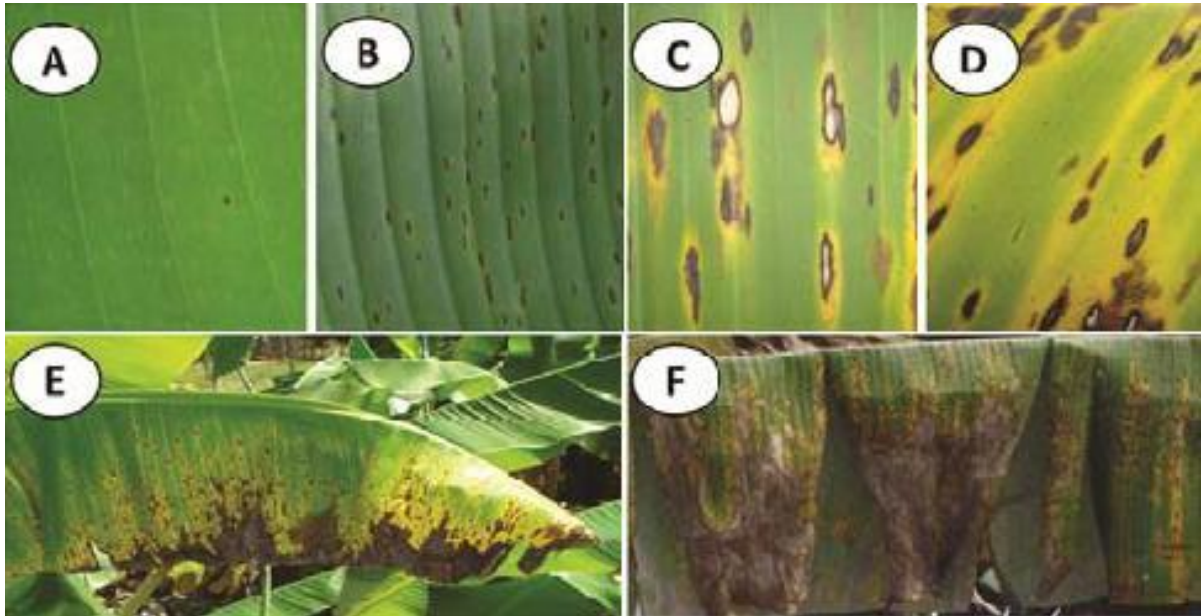


Healthy Leaf

Yellow Sigatoka

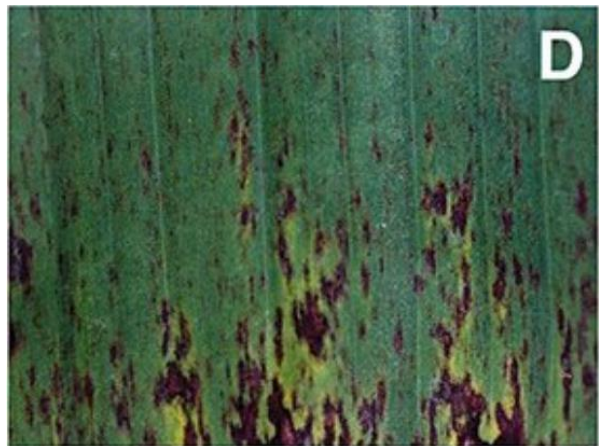
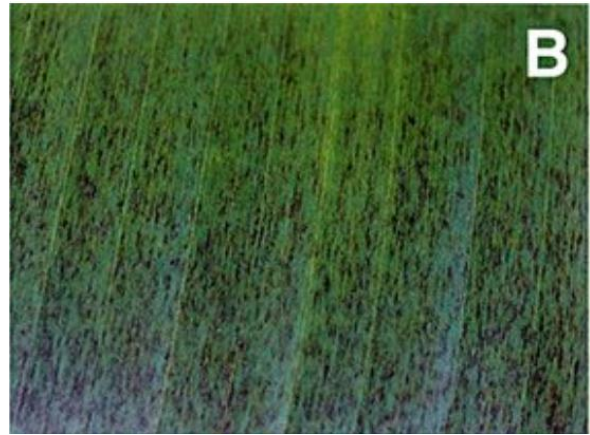
Early symptoms

The first visible symptom is a slight discoloration between the leaf's secondary veins (A). Over time, these points develop into pale yellow streaks, brown streaks and elliptic necrotic spots arranged parallel to the secondary veins. The depressed grey center is surrounded by a yellow halo. As the disease progresses, the lesions coalesce and cover a large area of the leaf (F)



Black Sigatoka

Early symptoms of Black Sigatoka are faint specks or spots. The reddish to rusty brown streaks are longer, broader, and darker than yellow sigatoka.



Leaf Speckle

Early Symptoms

Symptoms of leaf speckle caused by *Cladosporium* first appear as pale-brownish spots, like pencil marks, 0.5 x 1.5 mm. These spots are easily distinguished by transmitted light and can be seen 3-4 weeks after the youngest leaf unfurls. The spots elongate to streaks which increase in size, becoming lesions about 15 x 30 mm. These lesions may coalesce and yellow, later becoming a violet-black colour. Eventually, whole leaves become necrotic. Mature lesions may also be seen on the midrib of leaves.



Panama Disease

In banana plants look for:

- yellowing of lower or older leaves, caused by the fungus blocking the water conducting tissue within the banana plant stem
- lower leaves collapsing to form a 'skirt' around the plant
- cut open, the stem is discoloured from yellow to red, through to dark brown or black, depending on how long the plant has been infected.



Split Pseudostem



Yellowing typically begins at the margin of the older leaves (mostly older and lower leaves)



Collapsed older leaves hanging down the pseudostem