Reducing Black Sigatoka in your Banana field

Recognize the problem
Black sigatoka disease is caused by a fungus, and is one of the most dangerous diseases on banana. A farmer can lose up to 70% of their production. The disease usually appears when the 3rd or 4th leaf forms. Yellow, brown and black lines that follow the secondary leaf veins appear on the underside of the leaf. This disease can be easily confused with other fungal diseases that caused spots, but not brown or black lines. Chemicals can be used to control this disease, but they are expensive, not always available, and can be dangerous to human and agricultural health.

Background
The fungus lives mainly on the leaf when it is reproducing, and is more visible during the humid rainy season. It can be transported from one leaf or plant to the other by the wind, unclean agricultural tools or through contact between two leaves. The fungus can also live on other plants (host plants) when the banana tree is not present. Getting rid of infected plants, or other host plants, is an cultural practice that can help reduce the amount of disease that is already present in the field. If we get rid of infected leaves and destroy them, it reduces the potential spread for next season. However, it is a practice that needs to be done repeatedly.

Management
- Monitor your field once a week from the planting of seeds or seedlings until the tree is mature, in order to notice the symptoms early
- If you see an infected leaf, cut the leaf carefully, trying not to shake it too much, at its base. Put the leaf in a large pastic bag to avoid spreading the disease to the rest of the field. Take the bag outside the field, and deposit the contents onto a fire. You can also bury them deeply if you wish. Make sure you fill the hole again if you do.
- If the whole tree is badly infected, cut the tree down and bury or destroy it on the spot. Do it quickly to avoid the spread to other trees in your area.
- Do not forget to clean your tools after working on this disease. Clean with ethanol or bleach, or put the tool over the fire for 10 to 15 seconds.

Scientific name(s) > Mycosphaerella fijiensis

The recommendations in this factsheet are relevant to: Democratic Republic of the Congo