

How do I know what I have? and
what does it matter if I know?"



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How to distinguish between yellowing?

- Is it because of water logging?
- Is it because of nutrient deficiency?
- Is it because of toxicity?
- Is it because of a disease?



There are holes in my leaves

- How big are the holes?
- At what stage of the life cycle do the holes appear.?
- What caused the damage?
- Is it an a chewing adult insect, is it a caterpillar, is it a disease ?



There is white stuff at the back of the leaf or black stuff what is it?

- What is the impact of the stuff?
- Leaf curl
- Shriveling
- Stunting
- Deformed fruits

I have checked for bugs and water logging,

- I have checked that soil fertility is ok
- I have checked that there is sufficient sunlight spacing is not a problem.
- The roots are healthy looking.
- What can be the matter?

Even when I know what I have, what do I do?

- Do I need to do anything if I see bugs damaging my plant
- Do I need to do anything when I know that there is a fungus, a nematode or virus or bacteria?
- What is the minimum that I have to do when there is fungus, a nematode bacteria, or virus involved?

Cultural practices to reduce impact of pest and disease

- Cleaning
- Rouging
- Spacing
- Alternate host
- Improving soil fertility
- Improving aeration

How do I identify the causal agent ?

- Is it a fungus?
- Is it a virus?
- Is it a bacterium?
- Is it a nematode
- Is it an insect?
- Is it a weed?
- Is it stress
- Is it toxicity

Who wants to know?

- Farmers
- Plant quarantine inspectors
- Researchers
- Extension agents
- Crop Protection specialist

What are the concerns?

- Plant health for the farmer
- Pest risk analysis for the plant quarantine officer and notification of quarantine pest and diseases
- Distinction between one agent and the next for the researcher

Responsibility

Country level to respond to local and international market needs/demands

- Farmer
- Extension officer
- Crop Protection agent
- Plant quarantine inspector
- Researcher

Specialisation and its impact

- Increased availability of information with increased specialisation
- Knowledge gap increased
- - how do we share information?
- How do we ensure that information is packaged/designed for use by farmers/extension agent/plant quarantine officer

Management systems

- Diagnosis
- Communication exchange

Support to Diagnosis

- Training
- Equipment
- Management systems
- Policy support
- Prioritisation of needs/costing
- Coordination with other stakeholders/colleagues in the field

What next?

- How far do we go in developing capacity?
do need to have all the labs all the personnel?
Can we share?
- What are our obligations under International treaties?- IPPC, WTO, CBD?
- Who will help?
- How do we relate to regional organisations such as UEMOA, ECOWAS?
- How do we relate to organisations such as FAO, IITA, USAID-WATH