

## Fua koko uliuli (Cocoa black pod) (006)

### Aotelega

- Fa'asoa i le lalolagi atoa. I le teropika. E maua i koko, ulu, popo, esi, ma le tele o isi laau. O se faama'i taua.
- O se limu vai, o se oomycete, ae le o se limu. A'afia ai fua (pod) I soo se ituaiga koko fua lapopoa ma lanu eseese. E lanu enaena muamua ona lanu uliuli ai lea; e pala ae tumau i luga o le laau. O fua (laiti ma lapopoa) e fa'aumatia i le 10 aso pe ititi, fa'atatau i le tele.
- Fa'asalalauina e spores mai lesi fua I lesi fua, po'o mai le palapala ile pito i lalo ole ogalaau. Faasalalau e iniseti lele. E feaveai e loi le palapala o lo'o iai ni spores i luga o mealybugs. E toe sosolo a'e le pala ile pa'u o le koko ma lala ma ogalaau; fa'apea fo'i ona sosolo i luga o mea faigaluega, ma atonu fo'i i isumu ma pe'a.
- **Metotia fa'ale-aganu'u:** paolo malamalama; a ititi ifo i le 3 mita le va; alavai lelei; tatala fa'apaoloa, *chupon* (puna vai) aveese; pulea o isumu; 2-4-vaiaso o le selesalega o fua mata ma uliuli; aveese ni ua gaogao mai le faatoaga; fa'aaoga ituaiga koko e mafai ona tete'e I le faamai (fa'ata'ita'iga, Amelonado); laina faifa'ato'aga na atia'e i Papua Niu Kini.
- **Puleaina o vaila'au:** pulu apamemea; tui ogalaau - phosphorous acid.

**Igoa masani:** Fua uliuli o le koko.

**Igoa Faasaienisi:** *Phytophthora palmivora* . E le o se lega, ae o se oomycete po'o se lega vai, e feso'ota'i ma algae.



Photo 1. Black pod infection, *Phytophthora palmivora*, on the lowest pod on the trunk. It is likely that rain has splashed soil containing spores onto the pod where they germinate and infect.



Photo 2. The water mould, *Phytophthora palmivora*, infects the young leaves, especially along the veins.



Photo 4. Soil on cocoa pods brought by ants to cover colonies of mealybugs.



Photo 5. *Oecophylla* ants tending colonies of insects feeding on cocoa pods. It is possible that ants carry spores of *Phytophthora palmivora* from infected to healthy pods.



Photo 3. The water mould, *Phytophthora palmivora*, has infected the pod and then grown from the pod into the branch. The light brown margin of the red area is where the water mould is still active. The red colour is caused by fungi.



Photo 6. After infection by *Phytophthora* the pods turn brown; later, they are infected by fungi, and become black.

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