

DO YOU HAVE THIS DAMAGE IN YOUR FARM?



Bud rot infected palms

These palms were killed by a disease called bud rot.

Dead palms mean:

- ◆ Reduced yield
- ◆ Extra cost of replanting and
- ◆ Yield loss on replanted palms while they are still unproductive

The disease had been observed in all provinces of Davao, Comval province, Caraga region, Agusan del Sur, Camiguin Island, Cotabato, Zamboanga, Samar, Bohol, Laguna and Quezon.

Infection could reach up to 80% if no control measure is applied. This is what happened to several farms in New Bataan, Davao del Norte.

WHAT ARE BUD & NUT ROTS?

Coconut bud & nut rots are caused by the soil-borne fungus *Phytophthora*.

For bud rot, the initial symptom is the wilting and bending of the spear leaf. Eventually, this will droop & dry. If the bud is dissected, rotten tissues exuding foul odor is manifested. At this sate, the palm could not longer recover. Death of palm takes 3 to 9 months after onset of infection.



Infected palm with rotten bud

Initial symptom of nut rot is the appearance of dark brown sunken irregular patches with water-soaked borders on the equatorial portion on the surface of the nuts.



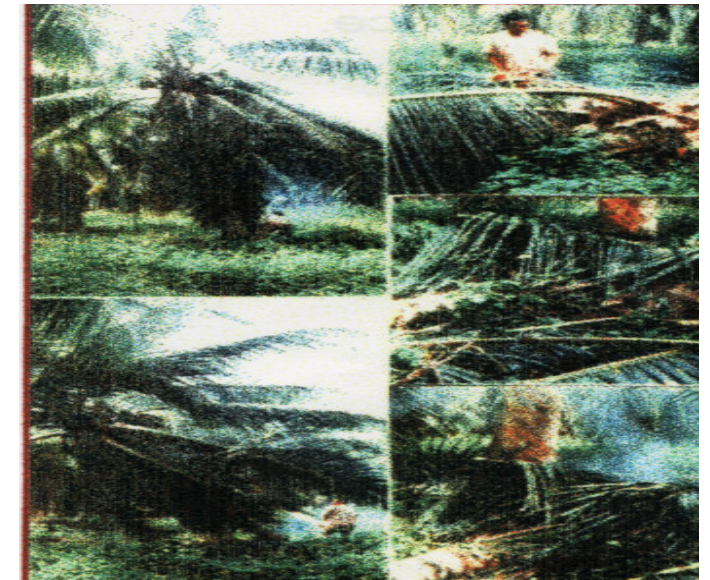
Nut rot

Infection is usually observed on 6-month old nuts. The infected nuts will no longer reach maturity since it falls-off prematurely. When the nuts are split, rotten meat is observed.

HOW TO CONTROL THESE DISEASES?

A. Farm Sanitation which involves:

- ◆ Cutting & burning of bud rot infected palms right after symptoms are observed.



Cutting & Burning of Infected Palm

- ◆ Collection and burning of infected nuts and other infected hosts such as cacao pods & stem/bark, durian & papaya must also be done. Never let these infected hosts stay long in the area for they could trigger disease outbreak.

B. Fungicide Application

- ◆ Application of cupric hydroxide (e.g. Kocide 101) at 25 g/l/palm 6 months significantly lowered disease incidence. Treatment application is done through canopy spray, the solution especially directed to the axils of leaves and nuts where pathogen entry is expected.

If bud & nut rot outbreaks are observed in the area, notify immediately the nearest Philippine Coconut Authority field office.

FOR ADDITIONAL INFORMATION:

Call, write, or visit:

The Crop Protection Division
Davao Research Center
Philippine Coconut Authority
Bago-Oshiro, Davao City
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pca-asd@mozcom.com

Name of CDO _____

Office Address _____

**Control of Coconut
Bud & Fruit Rots**



**Crop Protection Division
Davao Research Center
Agricultural Research &
Development Branch
Philippine Coconut Authority
Bago Oshiro, Davao City**