

Cadang-cadang Disease

Coconut cadang-cadang viroid

Not known to be present in Hawai'i

Disease that is known to kill all cultivars of coconut.



J. Hanold & J.W. Randles



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Stunted tree with yellowing leaves



Impacts

- Affects all commercial cultivars of coconut palms (*Cocos nucifera*). Can also affect betelnut (*Areca catechu*), sugar palm (*Arenga pinnata*), Borassus, gebang palm (*Corypha utan*), African oil palm (*Elaeis guineensis*), sago palm (*Metroxylon sagu*), date palm (*Phoenix dactylifera*)
- Once infected with this disease, there is no cure or treatment
- Natural method of spread is unknown



High-risk Commodities

- Imported coconut germplasm, seed, and pollen from the Philippines



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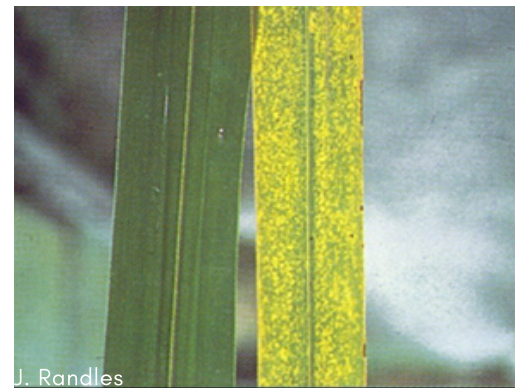
Distribution

- Only found in the Philippines



Identification

- Nuts become round, longitudinal scarring. Small with no kernel. Trees stop producing nuts at 2 years
- Flower spathes are reduced and when it opens the flowers are necrotic
- Yellow/orange spots start appearing on older leaves the entire leaf can turn yellow over time
- Trees are stunted, top of the trunk shrinks giving it a pencil like appearance
- In the petiol the basal fibers remain attached giving the new leaves a 'winged' look



J. Randles
Yellow spotting on leaves



Best Management Practices

- Contaminated tools and farm equipment.
- Importing coconut germplasm, seed, and pollen from the Philippines.
- Report suspected beetles to 643pest.org, or by phone to 643-PEST (7378).



J. Randles
Deformed coconuts

Selected References:

- www.cabi.org/isc/datasheet/13700
- <chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/viewer.html?pdfurl=http%3A%2F%2Fdownload.ceris.purdue.edu%2Ffile%2F1858&cflen=1811242>



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