MACADAMIA HUSK ROT

Macadamia Protection Programme

Background Husk rot is a fungal disease of the pericarp or husk. Disease symptoms can cause premature nut drop as well as prevent adequate nut. The disease is becoming more important in South African macadamia orchards and could significantly reduce yield if not controlled effectively. Multiple fungal genera are known to cause husk rot including Diaporthe (Phomopsis husk PHR shinv lesions) rot. _ black Colletotrichum (Anthracnose husk rot, AHR – concentric fruiting bodies on lesions conditions) in ideal and Calonectria (Calonectria husk rot, CHR white Different mycelia). species, however, differ in their ability to cause disease, both in terms of incidence and severity. Both PHR and AHR require wounding to trigger disease while CHR does not. These genera can occur simultaneously separately or on diseased tissue. All of the above should taken into consideration when be implementing management options.





Disease Husk rot symptoms are often observed after prolonged (2 - 5 days) wet weather conditions with air temperatures above 15°C. Infection can occur during nut development and remain latent or dormant until disease development is triggered. It is hypothesized that disease is most commonly triggered by wounds caused by insect damage and/or mechanical damage such as wind rub combined with favourable climatic conditions.

Treatment

Insect control in orchards
Removal of infected tissue
Application of fungicides
Registered product
Refer to MacShield



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Akinsanmi OA & Drenth A (2016) Characterisation of husk rot in macadamia. Annals of Applied Biology 1: 104-115. | photos by Ashleigh Smith