

Anthracnose of cashew

Colletotrichum gloeosporioides



Cashew fruits showing symptoms of anthracnose (J.M. Waller/CABI BioScience)

Prevention	Monitoring	Direct Control	Direct Control	Restrictions
<ul style="list-style-type: none"> Use healthy disease-free seedlings in establishment of new plantations Prune trees regularly after harvest by removing dead twigs and branches to allow good light penetration and air circulation Ensure proper spacing depending on the type of cultivar to ensure adequate aeration Collect and burn plant debris, including old twigs, rotten fruits and infected nuts regularly to reduce sources of inoculum Weed fields and surroundings because as pathogen has a wide host range Spray trees after pruning to control cashew mosquitoes and other sucking insects to reduce or prevent transmission through mechanical injuries (see yellow control column) 	<ul style="list-style-type: none"> Additional relevant crops: mango, citrus, eggplant, tomato, cassava, chilli, pepper and yam Monitor main stalk and branches for reddish brown coloured sunken oval shaped lesions Check immature fruits for black lesions Monitor field regularly for irregular growth and crinkling of flower buds and young flowers Apply direct control as soon as symptoms are observed. Carry out preventative spraying at the seedling, budding and early flowering stages Note: <i>Helopeltis</i> is an important insect pest of cashew and can cause symptoms very similar to anthracnose (see PMDG on Cashew Mosquitoes) 	<ul style="list-style-type: none"> Prune diseased and dead twigs and branches to reduce the disease inoculum Remove rotten fruits and infected nuts from the orchard and burn to reduce the source of inoculum 	<ul style="list-style-type: none"> When using a pesticide or botanical, always wear protective clothing and follow the instructions on the product label Do not use chemicals with the same mode of action year after year as this can lead to resistance Always consult the most recent list of registered pesticides of MOFA, Ghana Apply mancozeb (800g/kg) (e.g. Agrithane 80WP, Benco 80WP, Damazeb 80WP, Dizcozeb 80WP) at 5g/L of water. Multi-site broad spectrum fungicide. FRAC group: M3 Apply folpet (Folpan 50WP) at a rate of 3g/L of water. Broad spectrum contact fungicide, FRAC group: M4 The following insecticides can be used to control sucking insects at the flowering and early fruiting stages Apply alpha cypermethrin (100g/l) (Alphacep 10 SC, Siricon10EC) at a rate of 4ml/10L. Contact pyrethroid, IRAC group: 3A Apply Acetamiprid (400g/l) (Buffalo Supa 40EW) at 4-5g/10L. Systemic neonicotinoid, IRAC group: 4A. 	<ul style="list-style-type: none"> WHO Class U (Unlikely to present acute hazard in normal use). Apply at 7-10 days interval and stop when small fruits are well developed. REI-24hrs; PHI-14 days. WHO Class U (Unlikely to present acute hazard in normal use). Spray at 7-10 days intervals until young fruits form. REI-24 hrs. PHI-14. WHO Class II (Moderately hazardous). Apply at 7-10 days intervals, PHI-14 days. WHO Class II (Moderately hazardous). Apply at 7-10 days intervals. PHI-14 days.



Ghana

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