

Cigar end rot on banana

Verticilliumtheobromae and *Trachysphaerafructigena*

	Prevention	Monitoring	Direct Control	Direct Control	Restrictions
 <p>Necrotic tissue on fruit tips covered with fungal mycelia that resembles the greyish ash cigar end. (Photo: Maina Gekone, Crops Officer, MoA, Trans-Nzoia East, Kenya)</p>  <p>Advanced damage showing greyish ash cigar end on banana fingers. (Photo: Thomas K. Kwambai, KALRO, Kenya)</p>	<ul style="list-style-type: none"> ◆ Use tolerant varieties such as Grande Naine ◆ De-sucker banana stools to maintain 3-4 plants per stool ◆ Prune banana plants and shade trees to reduce humidity which may create favourable conditions for disease development ◆ Remove floral remains on tip of fingers manually 8-11 days after bunch formation ◆ Remove the male bud 15cm below the last hand (when the fingers have folded in) ◆ Harvest at maturity to reduce susceptibility to the disease ◆ Store in a cool dry place to reduce the incidences of the disease ◆ Minimize bruising of the fruits during harvesting and transportation 	<ul style="list-style-type: none"> ◆ Look out for: <ul style="list-style-type: none"> ◆ A black necrosis spread from the flower into the tip of immature fingers which appears like a cigar-end. ◆ Act after the first infestation is noticed. 	<ul style="list-style-type: none"> ◆ Remove collapsing, dying and dead leaves and burn to reduce inoculum levels. ◆ Remove and bury infected fingers to prevent spread of fungus. 	<ul style="list-style-type: none"> ◆ Spray affected bunches with fungicides such as: <ul style="list-style-type: none"> ◆ Mancozeb (Dithane M45 at a rate of 60gms/20L of water) ◆ FRAC code M3 ◆ Thiophanate methyl (Topsin M SC at a rate of 15mls/ 20L of water) ◆ FRAC code 1 	<ul style="list-style-type: none"> ◆ WHO Class U (Unlikely to present acute hazard in normal use) ◆ PHI 7 days ◆ WHO Class U (Unlikely to present acute hazard in normal use) ◆ PHI 7 days ◆ When using a pesticide, always wear protective clothing. Follow the instructions on the product label, such as dosage, timing of application, pre-harvest interval, max number of sprays, restricted re-entry interval. Do not empty into drains. ◆ Always consult recent list of registered pesticides (PCPB)



Kenya

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