
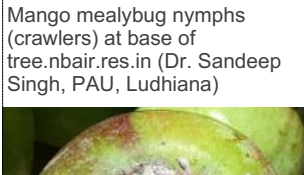


Mealybugs on mangoes

Drosicha mangiferae

	Prevention	Monitoring	Direct Control	Direct Control	Restrictions
 <p>Mango mealybug nymphs (crawlers) at base of tree. nbair.res.in (Dr. Sandeep Singh, PAU, Ludhiana)</p>	<ul style="list-style-type: none"> Flood the orchard to kill the eggs Band the tree trunks 20cm above ground with heavy gauge polythene sheet smeared with sticky gum 	<ul style="list-style-type: none"> Additional relevant crops: cacao, avocado, passion fruit, guava, papaya, tamarind, citrus, cotton Check leaves, stems and fruits for flat oval insects whose bodies are covered with white powder Look for sooty moulds on leaves, shoots and fruits Look for nymphs (crawlers) at the base of the tree trunk Initiate control as soon as you notice mealybugs as they will have already laid eggs in the soil 	<ul style="list-style-type: none"> Spray organic insecticidal soap which weakens the the insects protective waxy cover exposing them to adverse conditions Control ants by using gummed band to break the symbiotic relationships thus exposing mealybugs to predators Release parasitic wasps (<i>Anagyrus pseudococci</i>) and predatory beetles (<i>Crytoloemus moulrouzlevi</i>) to manage mealbgs from Koppert Spray dishwashing soap to suffocate the bugs/remove the waxy layer Spray neem based products e.g. Achook 1.5% at 20-50ml in 20L, 3-4 times/season or Nimbecidine at 50ml in 20L, repeated fortnightly 	<ul style="list-style-type: none"> Use protective clothing Follow label instructions on the product Always consult recent list of registered pesticides Ensure safe disposal of empty containers 	
 <p>Mealybugs on mango fruit (Scot Nelson, flickr.com)</p>	<ul style="list-style-type: none"> Remove branches that touch the ground Work/rake the soil lightly to expose eggs and nymphs (crawlers) to predators or extreme temperatures 			<ul style="list-style-type: none"> Spray Thiamethoxam based product e.g. Actara 25WG at the rate of 8g/20L, repeated at fortnightly interval if pest re-occurs Spray Imidachloprid based insecticides Confidor 200SL at the rate of 10ml/20L of water etc). Neonicitinoid; IRAC 4A 	<ul style="list-style-type: none"> Thiamethoxam in WHO class III (Slightly hazardous) Neonicotinoid. For optimum control, apply when pest populations are first observed. Repeat at 7 days after monitoring when pest persist Imidachloprid WHO class II (Slightly hazardous); PHI 7 days; MRLs 2mg/kg. Spray early morning or at late evening to avoid harming bees



Kenya

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