

ICAR-National Research Centre for Integrated Pest Management, Pusa, New Delhi
Weekly Status Report on Insects Pests & Diseases of Crops

Name of Institute: ICAR - INDIAN INSTITUTE OF SPICES RESEARCH, KOZHIKODE 673 012, KERALA
 Date: 30.11.2017 – 06.12.2017

Crop	Crop Stage	Location (with GPS)	Major Insect Pests		Major Plant Diseases		Other Pests (Nematodes, Rat, etc.) (Scientific Name)	Pest Advisories
			Name (Scientific Name)	Status (Low, Medium & Severe)	Name (Scientific Name)	Status (Low, Medium & Severe)		
Black pepper	Nursery/ Bearing stage	Idukki, Kozhikode, Wayanad (Kerala), Kodagu (Karnataka) ,Tamil Nadu	Mealybug (<i>Planococcus</i> sp., <i>Ferrisia</i> <i>virgata</i>) (Nursery) Scale insect (<i>Protopulvinaria</i> <i>longivalvata</i>) (Nursery)	Medium	Stunt disease (<i>Cucumber</i> <i>mosaic virus</i> , <i>Piper yellow</i> <i>mottle virus</i>) Slow decline (<i>Meloidogyne</i> <i>incognita</i> , <i>Radopholus</i> <i>similis</i>) Anthracnose (<i>Colletotrichum</i> spp.) (Nursery) Basal wilt (<i>Sclerotium</i> <i>rolfsii</i>) (Nursery) Viral infection (Nursery)	Low	Nematodes (<i>Radopholus</i> <i>similis</i> , <i>Meloidogyn</i> <i>e incognita</i>) (Nursery)	Field: Stunt disease Regular monitoring. Remove infected vines and destroy by burning or burying deep in soil. Control the vector (mealy bugs) by drenching neem oil (0.5%). Slow decline Remove and destroy severely affected vines. Apply neem cake @ 500g/vine and biocontrol agents like <i>Pochonia</i> <i>chlamydosporia</i> or <i>Trichoderma</i> <i>harzianum</i> @ 50 g/vine and metalaxyl-mancozeb (0.125%) may also be applied. Nursery: Anthracnose Spray Bordeaux mixture (1%). Basal wilt Remove and destroy affected
				Low		Medium		
				Low		Low		
				Low		Low		


							<p>cuttings along with defoliated leaves.</p> <p>After periodic sanitation, the cuttings should be drenched with carbendazim (0.2%) or Bordeaux mixture (1%).</p> <p>Viral infections</p> <p>Regular inspection and removal of infected plants. Regular monitoring for insects and spray with neem oil (0.5%) whenever infestation is noticed.</p> <p>Mealy bug and scale insect</p> <p>Spray neem oil (0.5%), once infestation is noticed.</p> <p>Nematodes</p> <p>Apply <i>Pochonia chlamydosporia</i> @ 1g/bag.</p>
Cardamom	Harvesting	Idukki, Wayanad (Kerala), Kodagu (Karnataka)	<p>Thrips (<i>Sciothrips cardamomi</i>)</p> <p>Shoot borer (<i>Conogethes punctiferalis</i>)</p>	<p>Low</p> <p>Medium</p>	<p>Leaf blight (<i>Colletotrichum</i> spp.)</p> <p>Katte/Mosaic (<i>Cardamom mosaic virus</i>)</p> <p>Chlorotic streak (<i>Banana bract mosaic virus</i>)</p>	<p>Medium</p> <p>Low</p> <p>Low</p>	<p>Leaf blight</p> <p>Maintain optimum shade level by providing 40-60% filtered light.</p> <p>Katte/ Mosaic</p> <p>Prompt inspection of plantation, detection and rouging of virus sources (infected plants/volunteers) to reduce re-infection. The removed plants may be burnt or buried deep in soil. Removal of natural hosts like <i>Colocasia</i> and <i>Caladium</i> to destroy breeding sites and check population build-up of the vector.</p> <p>Chlorotic streak</p>

	and bulking							(0.2%) when the initial symptoms appear. Care should be taken that the spray solution should reach lower surface of the leaves also. Shoot borer Prune and destroy freshly infested pseudostems and spray neem oil (0.5%) at 21 days interval
Turmeric	Vegetative/ Rhizome development and bulking	Andhra Pradesh, Telangana, Tamil Nadu, Odisha	Shoot borer (<i>Conogethes punctiferalis</i>)	High	Leaf spot (<i>Colletotrichum capsici</i>)	Medium		Leaf spot Spray carbendazim or mancozeb (0.2%) or copper oxychloride (0.2%). Shoot borer Spray neem oil (0.5%) at 21 days interval

(Nodal Officer)

Name:

Designation:


 20/11/17
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 Director/Head of Institution

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