

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: 17.05.2018 - 23.05.2018

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/ Vegetative	Idukki, Kozhikode, Wayanad (Kerala), Kodagu (Karnataka) ,Tamil Nadu	Scale insects (<i>Protopulvinaria</i> <i>longivalvata</i> , <i>Lepidosaphes</i> <i>piperis</i>) (Field)	Low	Stunt disease (<i>Cucumber</i> <i>mosaic virus</i> , <i>Piper yellow</i> <i>mottle virus</i>)	Medium	Nematodes (<i>Radopholus</i> <i>similis</i> , <i>Meloidogyne</i> <i>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>chlamydo-sporea</i> or <i>Trichoderma</i> <i>harzianum</i> @ 50 g/vine and metalaxyl-mancozeb (0.125%) may also be applied. Scale insects Spray neem oil (0.5%), once infestation is noticed. Root mealybug Drench neem oil (0.5%), once
			Root mealybug (<i>Planococcus</i> sp.) (Field)	Medium	Slow decline (<i>Meloidogyne</i> <i>incognita</i> , <i>Radopholus</i> <i>similis</i>)	Medium		
			Mealybug (<i>Planococcus</i> sp., <i>Ferrisia</i> <i>virgata</i>) (Nursery)	Low	Anthracnose (<i>Colletotrichum</i> spp.) (Nursery)	Low		
			Scale insect (<i>Protopulvinaria</i> <i>longivalvata</i>)	Low	Basal wilt (<i>Sclerotium</i> <i>rolfsii</i>) (Nursery)	Low		
					Viral infection (Nursery)	Low		

			(Nursery)				<p>infestation is noticed.</p> <p>Nursery:</p> <p>Anthracnose Spray Bordeaux mixture (1%).</p> <p>Basal wilt Remove and destroy affected cuttings along with defoliated leaves. After periodic sanitation, the cuttings should be drenched with carbendazim (0.2%) or Bordeaux mixture (1%).</p> <p>Viral infections 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 insects Spray neem oil (0.5%), once infestation is noticed.</p> <p>Nematodes Apply <i>Pochonia chlamydosporia</i> @ 1g/bag.</p>
Cardamom	Vegetative	Idukki, Wayanad (Kerala), Kodagu (Karnataka)	<p>Thrips (<i>Sciothrips cardamomi</i>)</p> <p>Shoot borer (<i>Conogethes punctiferalis</i>)</p>	<p>Low</p> <p>Low</p>	<p>Leaf blight (<i>Colletotrichum</i> spp.)</p> <p>Katte/Mosaic (<i>Cardamom mosaic virus</i>)</p> <p>Chlorotic streak (<i>Banana bract</i>)</p>	<p>Medium</p> <p>Low</p> <p>Low</p>	<p>Leaf blight Maintain optimum shade level by providing 40-60% filtered light.</p> <p>Katte/ Mosaic Prompt inspection of plantation, detection and rouging of virus sources (infected plants/volunteers) to reduce re-infection. The removed plants</p>

					<i>mosaic virus</i>)		<p>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 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.</p> <p>Shoot borer Spray quinalphos (0.075%).</p> <p>Thrips Spray quinalphos 25%EC (0.075%) after undertaking thrashing.</p>
Vanilla	Vegetative	Karnataka			<p>Root and stem rot (<i>Fusarium oxysporum</i> f. sp. <i>vanillae</i>)</p> <p>Viral diseases (<i>Bean common mosaic virus</i>, <i>Bean yellow mosaic virus</i>, <i>Cucumber mosaic virus</i>, <i>Cymbidium</i></p>	<p>Low</p> <p>Low</p>	<p>Root and stem rot Soil drenching with copper oxychloride @ 0.25% followed by spray with carbendazim (0.25%) at monthly interval.</p> <p>Viral diseases Regular inspection and removal of infected plants. The removed plants may be burnt or buried deep in soil. Control of vector (aphids) may be undertaken by spraying neem oil (0.5%).</p>

Nutmeg	Bearing	Kerala			<i>mosaic virus</i>		Physiologic al wilting (Field)	Physiological wilting (Field) Provide irrigation to the trees. The trees may be adequately shaded to prevent sun scorching.
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(Nodal Officer) 18.5.18

Name:

Biju. C.N.

Designation:

Sr. Scientist
(Plant Pathology)

Director/Head of Institution

डा.के.निर्मल बाबू Dr. K. Nirmal Babu
निदेशक Director

भाकृअनुप-भारतीय मसाला फसल अनुसंधान संस्थान
ICAR-Indian Institute of Spices Research
मेरिक्कु पी.ओ. Marikunnu PO, कोषिकोड Kozhikode
पिन Pin-673 012 केरल Kerala, भारत India