

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: 08.11.2018 - 14.11.2018


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/spike setting/berry maturation	Idukki, Kozhikode, Wayanad (Kerala), Kodagu (Karnataka), Tamil Nadu	Mealybug (<i>Planococcus</i> sp., <i>Ferrisia</i> <i>virgata</i>) (Nursery) Scale insect (<i>Protoperipharis</i> <i>longivalvata</i>) (Nursery)	Low to Medium Low	Slow decline (<i>Meloitogyne</i> <i>incognita</i> , <i>Radopholus</i> <i>similis</i>) Anthraxnose (<i>Colletotrichum</i> spp.) Stunt disease (<i>Cucumber</i> <i>mosaic virus</i> , <i>Piper yellow</i> <i>mottle virus</i>) Mealybug (<i>Planococcus</i> sp., <i>Ferrisia</i> <i>virgata</i>) Anthraxnose (<i>Colletotrichum</i> spp.) (Nursery) Basal wilt (<i>Sclerotium</i>	Low Low Low Medium Low Low	Nematodes (<i>Radopholus</i> <i>similis</i> , <i>Meloitogyne</i> <i>incognita</i>) (Nursery)	Field: 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. Anthraxnose Spray leaves of the affected vines with carbendazim - mancozeb (0.1%). 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%). Mealybug Drench neem oil (0.5%) or chlorpyrifos (0.075%).

					<p><i>rolfsii</i> (Nursery) Viral infection (Nursery)</p>	Low	<p>Nursery: Anthracnose Spray Bordeaux mixture (1%). 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%). Viral infections Regular inspection and removal of infected plants. Regular monitoring for insects and spray with neem oil (0.5%) whenever infestation is noticed. Mealy bug and scale insects Spray neem oil (0.5%), once infestation is noticed. Nematodes Apply <i>Pochonia chlamydosporia</i> @ 1g/bag.</p>
Cardamom	Capsule maturation and harvesting	Idukki, Wayanad (Kerala), Kodagu (Karnataka)	Thrips (<i>Sciothrips cardamomi</i>) Shoot borer (<i>Conogethes punctiferalis</i>)	Medium to Severe Medium	<p>Leaf blight (<i>Colletotrichum</i> spp.) Katte/Mosaic (<i>Cardamom mosaic virus</i>) Chlorotic streak (<i>Banana bract mosaic virus</i>)</p>	Low to Medium Low to medium Low	<p>Leaf blight Maintain optimum shade level by providing 40-60% filtered light. Spray carbendazim - mancozeb (0.1%) or carbendazim (0.2%) which may be repeated at 30 days interval depending on disease severity. Katte/Mosaic and Chlorotic streak Prompt inspection of plantation, detection and rouging of virus sources (infected plants/ volunteers). The removed plants may be burnt or buried deep in soil. Removal of</p>

Ginger	Vegetative	Karnataka, Kerala	<p>Leaf roller (<i>Udaspes folus</i>)</p> <p>Shoot borer (<i>Conogethes punctiferalis</i>)</p>	<p>Low</p> <p>Medium</p>	<p>Leaf spot (<i>Phyllosticta zingiberi</i>)</p>	Medium	<p>natural hosts like <i>Colocasia</i> and <i>Caladium</i> to destroy breeding sites and check population build-up of the vector.</p> <p>Shoot borer Spray quinalphos (0.075%).</p> <p>Thrips Spray quinalphos 25% EC (0.075%) after undertaking thrashing.</p> <p>Leaf spot** Spray Bordeaux mixture (1%) or mancozeb (0.2%) or carbendazim (0.2%).</p> <p>Leaf roller Spray malathion (0.1%) at 21 days interval.</p> <p>Shoot borer Prune and destroy freshly infested pseudostems and spray malathion (0.1%).</p>
Turmeric	Vegetative	Andhra Pradesh, Telangana, Tamil Nadu, Odisha	<p>Leaf roller (<i>Udaspes folus</i>)</p>	Low	<p>Leaf spot (<i>Colletotrichum capsici</i>)</p>	Medium	<p>Leaf spot Spray carbendazim or mancozeb (0.2%).</p> <p>Leaf roller Spray malathion (0.1%) at 21 days interval.</p>
Vanilla	Vegetative/Bean n maturing	Karnataka			<p>Leaf spot (<i>Colletotrichum vanillae</i>)</p> <p>Stem rot (<i>Fusarium oxysporum</i> f. sp. <i>vanillae</i>)</p> <p>Viral diseases (<i>Bean common</i>)</p>	<p>Low</p> <p>Medium</p> <p>Low</p>	<p>Leaf spot Spray Bordeaux mixture (1%) at 15 – 20 days interval.</p> <p>Stem rot Remove and destroy infected plant parts. Apply <i>Trichoderma harzianum</i> and <i>Pseudomonas fluorescens</i> (cfu 10⁸) 50 g per vine.</p> <p>Viral diseases</p>

						mosaic virus, Bean yellow virus, Cucumber mosaic virus, Cymbidium mosaic virus)			Regular inspection and removal of infected plants. The removed plants may be burnt or buried deep in soil. Control of vector (aphids) by spraying neem oil (0.5%).
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 (Nodal Officer) 8/11/18.
 Name: Biju C.N.
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