

**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: 09.11.2017 – 15.11.2017**

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	<b>Mealybug</b> ( <i>Planococcus</i> sp., <i>Ferrisia</i> <i>virgata</i> ) (Nursery)	Medium	<b>Stunt disease</b> ( <i>Cucumber</i> <i>mosaic virus</i> , <i>Piper yellow</i> <i>mottle virus</i> )	Low	<b>Nematodes</b> ( <i>Radopholus</i> <i>similis</i> , <i>Meloidogyn</i> <i>e incognita</i> ) (Nursery)	<b>Field:</b> <b>Stunt disease</b> 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%). <b>Slow decline</b> 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. <b>Nursery:</b> <b>Anthracnose</b> Spray Bordeaux mixture (1%). <b>Viral infections</b>
			<b>Scale insect</b> ( <i>Protopulvinaria</i> <i>longivalvata</i> ) (Nursery)	Low	<b>Slow decline</b> ( <i>Meloidogyne</i> <i>incognita</i> ., <i>Radopholus</i> <i>similis</i> )	Medium		
					<b>Anthracnose</b> ( <i>Colletotrichum</i> <i>gloeosporioides</i> ) (Nursery)	Low		

							<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><b>Mealy bug and scale insect</b> Spray neem oil (0.5%), once infestation is noticed.</p> <p><b>Nematodes</b> Apply <i>Pochonia chlamydosporia</i> @ 1g/bag.</p>
<b>Cardamom</b>	<b>Capsule maturation and harvesting</b>	Idukki, Wayanad (Kerala), Kodagu (Karnataka)	<b>Thrips</b> ( <i>Sciothrips cardamomi</i> )	Medium	<p><b>Leaf blight</b> (<i>Colletotrichum gloeosporioides</i>)</p> <p><b>Katte/Mosaic</b> (<i>Cardamom mosaic virus</i>)</p> <p><b>Chlorotic streak</b> (<i>Banana bract mosaic virus</i>)</p>	<p>Medium</p> <p>Low</p> <p>Low</p>	<p><b>Leaf blight</b> Maintain optimum shade level by providing 40-60% filtered light.</p> <p><b>Katte/ Mosaic</b> 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><b>Chlorotic streak</b> 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</p>

							soil. <b>Thrips</b> Spray quinalphos 25%EC (0.075%) after undertaking thrashing.
<b>Vanilla</b>	<b>Bean maturing</b>	Karnataka			<b>Premature yellowing and bean shedding</b> ( <i>Colletotrichum vanillae</i> ) <b>Viral diseases</b> ( <i>Bean common mosaic virus, Bean yellow mosaic virus, Cucumber mosaic virus, Cymbidium mosaic virus</i> )	Medium  Low	<b>Premature yellowing and bean shedding</b> Provide 50% shade in the plantation. Spray carbendazim – mancozeb (0.25%) at 15 – 20 days interval. <b>Viral diseases</b> 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%).
<b>Ginger</b>	<b>Vegetative</b>	Karnataka, Kerala	<b>Shoot borer</b> ( <i>Conogethes punctiferalis</i> )	High	<b>Leaf spot</b> ( <i>Phyllosticta zingiberi</i> )	High	<b>Leaf spot</b> Spray Bordeaux mixture (1%) or mancozeb (0.2%) or carbendazim (0.2%) when the initial symptoms appear. Care should be taken that the spray solution should reach lower surface of the leaves also. <b>Shoot borer</b> Prune and destroy freshly infested pseudostems and spray neem oil (0.5%) at 21 days interval

<b>Turmeric</b>	<b>Vegetative</b>	Andhra Pradesh, Telangana, Tamil Nadu, Odisha	<b>Shoot borer</b> ( <i>Conogethes punctiferalis</i> )	High	<b>Leaf spot</b> ( <i>Colletotrichum capsici</i> )	Medium		<b>Leaf spot</b> Spray carbendazim or mancozeb (0.2%) or copper oxychloride (0.2%). <b>Shoot borer</b> Spray neem oil (0.5%) at 21 days interval
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