## 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: 12.01.2017 - 18.01.2017

	Crop Stage	Location	Nama	Status		Status	<b>Other Pests</b>	
Black penner (a) I		(with GPS)	Name (Scientific Name)	(Low, Medium & Severe)	<b>Name</b> (Scientific Name)	(Low, Medium & Severe)	(Nematodes, Rat, etc.) (Scientific Name)	Pest Advisories
Diack pepper   (a) I	Harvesting Ic	dukki,	Mealybug	Low	Stunted disease	Low	Nematodes	Field:
(b) N	Nursery W (1 K (1	Kozhikode, Wayanad (Kerala), Kodagu (Karnataka), Famil Nadu	(Planococcus sp., Ferrisia virgata) (Nursery)		(Cucumber mosaic virus, Piper yellow mottle virus) Slow decline (Meloidogyne incognita., Radopholus similis) Anthracnose (Colletotrichum gloeosporioides) (Nursery) Basal wilt (Sclerotium rolfsii) (Nursery) Viral infection (Nursery)	Medium Low Low to Medium	(Radopholus similis, Meloidogyne incognita) (Nursery)	Stunted 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 chlamydosporia</i> or <i>Trichoderma 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 cuttings along with defoliated leaves. After periodic sanitation, the cuttings should be drenched

							<ul> <li>Viral infections <ul> <li>Regular inspection and removal of infected plants. Regular monitoring for insects and spray with neem oil (0.5%) whenever infestation is noticed.</li> <li>Mealy bug</li> <li>Spray neem oil (0.5%), once infestation is noticed.</li> <li>Nematodes</li> <li>Apply Pochonia chlamydosporia @ 1g/bag.</li> </ul> </li> </ul>
Cardamom	Harvesting	Idukki, Wayanad (Kerala), Kodagu (Karnataka)	Thrips (Sciothrips cardamomi)	Low	Leaf blight (Colletotrichum gloeosporioides) Katte/Mosaic (Cardamom mosaic virus) Chlorotic streak (Banana bract mosaic virus)	Medium Low Low	Leaf blightMaintain optimum shade level by providing 40-60% filtered light.Katte/ MosaicPrompt 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.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.Thrips Spray quinalphos (0.075%).

Vanilla	Vegetative	Karnataka	Leaf spot	Low	Leaf spot
	_		(Colletotrichum		Provide 50% shade in the
			vanillae)		plantation. Spray Bordeaux
			Stem rot	Low	mixture (1%) at 15 - 20 days
			(Fusarium		interval.
			oxysporum f. sp.		Stem rot
			vanillae)		Remove and destroy infected plant
			Viral diseases	Low	parts. Apply Trichoderma
			(Bean common		harzianum and Pseudomonas
			mosaic virus.		<i>fluorescens</i> (cfu $10^8$ ) 50 g per vine.
			Bean yellow	,	Viral diseases
			mosaic virus.		Regular inspection and removal of
			Cucumber mosaic		infected plants. The removed
			virus, Cymbidium		plants may be burnt or buried deep
			mosaic virus)		in soil. Control of vector (aphids)
					may be undertaken by spraying
					neem oil (0.5%).