## 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: 13.04.2017 to 19.04.2017

Image: Constraint of the constra	
Kozhikode, (b) NurseryKozhikode, Wayanad (Kerala), Kodagu (Karnataka), Tamil Nadu(Planococcus sp., Ferrisia (Kerala), Kodagu (Rarnataka), Tamil Nadu(Claumber mosaic Nursery) (Karnataka), Tamil Nadumediumwilting (Regular mosaic Nematodes (Radopholus similis, Regular MediumKozhikode, (Kerala), (Karnataka), Tamil Nadu(Planococcus sp., Ferrisia (Nursery)(Cucumber mosaic virus, Piper Slow declinemediumwilting (Field)Stunt disease Regular mosaic virus, Nematodes Slow declineMediumScale insect (Protopulvinari a longivalvata) (Nursery)Low(Meloidogyne incognita., Radopholus similis)MediumSlow decline similis, AnthracnoseMediumSlow decline similis, affected vine affected vine affected vine	t Advisories
(b) NurseryWayanad (Kerala), Kodagu (Karnataka), Tamil Nadusp., Ferrisia virgata) (Nursery)mosaic virus, Piper wellow mottle virus)(Field) Nematodes infected vin burning or b Control the by drenching incognita., Radopholus similis)Regular mosaic virus, Nematodes (Radopholus by drenching incognita) a longivalvata) (Nursery)(b) NurseryWayanad (Kerala), (Karnataka), Tamil Nadusp., Ferrisia virgata) (Nursery)Nematodes (Radopholus similis, Regular mottle virus)Regular mosaic virus, Piper similis, RedumRegular m mottle virus, burning or b Control the by drenching incognita., Radopholus similis)Regular m mottle virus, burning or b Control the Bermove and affected vine g Slow decline	
(Nursery) Viral infection (Nursery) Medium Harzianum metalaxyl-ma may also be a Physiologica Basin irrigati be given @ 11-15 years	onitoring. Remove es and destroy by purying deep in soil. vector (mealy bugs) neem oil (0.5%). d destroy severely es. Apply neem cake ne and biocontrol like <i>Pochonia</i> <i>ria</i> or <i>Trichoderma</i> @ 50 g/vine and uncozeb (0.125%) upplied.

Cardamom	Vegetative	Idukki, Wayanad (Kerala), Kodagu (Karnataka)	<b>Thrips</b> (Sciothrips cardamomi)	Low	Leaf blight (Colletotrichum gloeosporioides) Katte/Mosaic (Cardamom mosaic virus) Chlorotic streak (Banana bract mosaic virus)	Medium Low Low	Nursery: Anthracnose Spray 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 insect Spray neem oil (0.5%), once infestation is noticed.Nematodes Apply Pochonia chlamydosporia @ 1g/bag.Leaf blight Maintain optimum shade level by providing 40-60% filtered light. Katte/ Mosaic 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
		(Trainataka)			mosaic virus) Chlorotic streak (Banana bract	Low	detection and rouging of virus sources (infected plants/ volunteers) to reduce re-infection.

						or buried deep in soil. <b>Thrips</b> Spray quinalphos (0.075%).
Vanilla	Vegetative	Karnataka	Leafspot(Colletotrichumvanillae)Stem rot(Fusariumoxysporumf. sp.vanillae)	Low Low		Leaf spot Provide 50% shade in the plantation. Spray Bordeaux mixture (1%) at 15 – 20 days interval. Stem rot Remove and destroy infected plant
			Viral diseases (Bean common mosaic virus, Bean yellow mosaic virus, Cucumber mosaic virus, Cymbidium mosaic virus)	Low		parts. Apply Trichoderma harzianum and Pseudomonas fluorescens (cfu $10^8$ ) 50 g per vine. <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%).
Nutmeg	Bearing	Kerala			Physiological wilting (Field)	Physiological wilting (Field) Provide irrigation to the trees. The trees may be adequately shaded to prevent sun scorching.