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

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Crop Stage Crop Status (Low, Medium Scientific Name) Status (Low, Medium Severe) Crop Stage Crop Medium Crop Stage Crop Stage Crop Stage Crop Medium Crop Stage Crop Stage Crop Stage Crop Stage Crop Medium Crop Stage Cro	Major Insect Pests Major Plant Diseases Other Pests
Kozhikode, Wayanad sp., Ferrisia (Kerala), Kodagu (Nursery) Kodagu (Karnataka), Tamil Nadu Kozhikode, Wayanad sp., Ferrisia virgata) (Karnataka), Tamil Nadu Kozhikode, Wayanad sp., Ferrisia virgata) (Kerala), Virgata) (Nursery) Kodagu (Nursery) Kozhikode, Wayanad sp., Ferrisia virgata) (Cucumber mosaic virus, Piper yellow mottle virus) Slow decline (Meloidogyne incognita) burn (Nursery) (Meloidogyne incognita., Radopholus similis)	Crop Stage Location (with GPS) Name (Scientific Name)
(Kerala), virgata) (Nursery) (Karnataka), Tamil Nadu (Ranataka), Radopholus similis) (Meloidogyne incognita., Radopholus similis) (Regulation of the piper yellow mottle virus) (Meloidogyne incognita) (Nursery) (Meloidogyne incognita) (Meloidogyne incognita) (Nursery) (Meloidogyne incognita) (Nursery) (Meloidogyne incognita) (Nursery) (Meloidogyne incognita) (Meloidogyne) Harvesting Idukki, Mealybug Low Stunted disease Low Nematodes Field:
(Colletotrichum gloeosporioides) (Nursery) Basal wilt (Sclerotium rolfsii) (Nursery) Viral infection (Nursery) Unursery) Low Spra Anthe Solog like Trick g/vir (0.12 Nursery) Medium Bass Rem cutti leave	Wayanad (Kerala), Kodagu (Nursery) (Karnataka), Tamil Nadu Slow decline (Meloidogyne incognita) (Meloidogyne incognita) (Meloidogyne incognita) (Mursery) Medium (Nursery) Medium (Nursery) Medium (Nursery) Medium (Nursery) Slow decline (Nursery) Medium (Nursery) Low (Colletotrichum gloeosporioides) (Nursery) Basal wilt (Sclerotium rolfsii) (Nursery) Wayanad (Kerala), virgata) (Nursery) Basal wilt (Sclerotium rolfsii) (Nursery) Viral infection Low Similis, Meloidogyne 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 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 Pochonia chlamydosporia or Trichoderma harzianum @ 50 g/vine and metalaxyl-mancozeb (0.125%) may also be applied. 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 Spray neem oil (0.5%), once infestation is noticed. Nematodes Apply Pochonia chlamydosporia @ 1g/bag.
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 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 natural hosts like Colocasia and Caladium 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,	fluorescens (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%).