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: 29.12.2016 - 04.01.2017

			Major Insec	t Pests	Major Plant D	liseases	Other Pests	
Сгор	Crop Stage	Location (with GPS)	Name (Scientific Name)	Status (Low, Medium & Severe)	Name (Scientific Name)	Status (Low, Medium & Severe)	(Nematodes, Rat, etc.) (Scientific Name)	Pest Advisories
Black pepper	(a) Maturing	Idukki,	Pollu beetle	Low	Stunt disease	Low	Nematodes	Field:
	(b) Nursery	Kozhikode, Wayanad (Kerala), Kodagu (Karnataka), Tamil Nadu	(Lanka ramakrishnai) Mealybug (Planococcus sp., Ferrisia virgata) (Nursery)	Low	(Cucumber mosaic virus, Piper yellow mottle virus) Slow decline (Meloidogyne incognita., Radopholus similis)	Low to medium	(Radopholus similis, Meloidogyne incognita) (Nursery)	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%). Slow decline Remove and destroy severely
					Anthracnose (Colletotrichum gloeosporioides) (Nursery) Basal wilt (Sclerotium rolfsii) (Nursery) Viral infection (Nursery)	Low Low to Medium		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. Pollu beetle Spray neem oil (0.5%) 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 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 <i>Pochonia chlamydosporia</i> @ 1g/bag.
Cardamom	Harvesting	Idukki, Wayanad (Kerala), Kodagu (Karnataka)	Shoot borer (Conogethes punctiferalis) 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. Spray Bordeaux mixture (1%) @ 0.5-1 litre/plant.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. Shoot borer and thrips Spray quinalphos (0.075%).
Vanilla	Harvesting	Karnataka	Leaf spot/Leaf rot/Bean shedding (Colletotrichum vanillae) Stem rot (Fusarium oxysporum f. sp. vanillae) Viral diseases (Bean common mosaic virus, Bean yellow mosaic virus, Cucumber mosaic virus, Cymbidium mosaic virus)	Low Low	Premature yellowing and bean sheddingProvide 50% shade in the plantation. Spray Bordeaux mixture (1%) at 15 – 20 days interval.Stem rotRemove and destroy infected plant parts. Apply Trichoderma harzianum and Pseudomonas fluorescens (cfu 10 ⁸) 50 g per vine.Viral diseasesRegular 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
Turmeric	Maturing	Tamil Nadu	Leaf spot (Colletotrichum capsici)	Medium	neem oil (0.5%). Leaf spot Spray Bordeaux mixture (1%).