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: 04.01.2018 - 10.01.2018

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	**Scale insects** (*Protopulvinaria longivalvata, Lepidosaphes piperis*) (Field)	Low	**Stunt disease** (*Cucumber mosaic virus, Piper yellow mottle virus*)	Low	**Nematodes** (*Radopholus similis, Meloidogyne incognita*) (Nursery)	**Field:** **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 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. **Scale insects** Spray neem oil (0.5%), once infestation is noticed. **Root mealybug** Drench neem oil (0.5%), once
			Root mealybug (*Planococcus* sp.) (Field)	Medium	**Slow decline** (*Meloidogyne incognita, Radopholus similis*)	Medium		
			Pollu beetle (*Lanka ramkrishnai*) (Field)	Medium	**Anthracnose** (*Colletotrichum* spp.) (Nursery)	Low		
			Mealybug (*Planococcus* sp., *Ferrisia virgata*) (Nursery)	Low	**Basal wilt** (*Sclerotium rolfsii*) (Nursery)	Low		
			Scale insect	Low	**Viral infection** (Nursery)	Low		

			(*Protopulvinaria longivalvata*) (Nursery)					infestation is noticed. **Pollu beetle** Spray neem oil (0.5%), once infestation is noticed. **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 carbendazim (0.2%) or 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 insects** 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*) **Shoot borer** (*Conogethes punctiferalis*)	Low Medium	**Leaf blight** (*Colletotrichum* spp.) **Katte/Mosaic** (*Cardamom mosaic virus*)	Medium Low		**Leaf blight** Maintain optimum shade level by providing 40-60% filtered light. **Katte/ Mosaic** Prompt inspection of plantation, detection and rouging of virus

					Chlorotic streak (*Banana bract mosaic virus*)	Low		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. **Shoot borer** Spray quinalphos (0.075%). **Thrips** Spray quinalphos 25%EC (0.075%) after undertaking thrashing.

Vanilla	**Bean maturing/ Harvesting**	Karnataka			**Premature yellowing and bean shedding** (*Colletotrichum vanillae*) **Root and stem rot** (*Fusarium oxysporum* f.sp. *vanillae*) **Viral diseases** (*Bean common mosaic virus, Bean yellow mosaic virus, Cucumber mosaic virus, Cymbidium mosaic virus*)	Medium Low Low		**Premature yellowing and bean shedding** Provide 50% shade in the plantation. Spray carbendazim – mancozeb (0.25%) at 15 – 20 days interval. **Root and stem rot** Soil drenching with copper oxychloride @ 0.25% followed by spray with carbendazim (0.25%) at monthly interval. **Viral diseases** 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%).

2.1.18.

(Nodal Officer)
Name: BIJU C.N.
Designation: SCIENTIST (PLANT PATHOLOGY)

Director/Head of Institution

निदेशक Director
भारतीय मसाला फसल अनुसंधान संस्थान
Indian Institute of Spices Research
कालिकट Calicut-673 012
केरल Kerala, भारत India