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: 15.02.2018 - 21.02.2018

Crop	Crop Stage	Location (with GPS)	Major Insect Pests		Major Plant Diseases			
			Name (Scientific Name)	Status (Low, Medium & Severe)	Name (Scientific Name)	Status (Low, Mediu m & Severe)	Other Pests (Nematodes, Rat, etc.) (Scientific Name)	Pest Advisories
Black pepper	Nursery/ Harvesting		Scale insects (Protopulvinar ia longivalvata, Lepidosaphes piperis) (Field) Root mealybug (Planococcus sp.) (Field) Pollu beetle (Lanka ramkrishnai) (Field) Mealybug (Planococcus sp., Ferrisia virgata) (Nursery) Scale insect	Low Medium Low	Stunt disease (Cucumber mosaic virus, Piper yellow mottle virus) Slow decline (Meloidogyne incognita, Radopholus similis) Anthracnose (Colletotrichum spp.) (Nursery) Basal wilt (Sclerotium rolfsii) (Nursery) Viral infection (Nursery)	Low Low Low		Field: Stunt disease Regular monitoring. Removinfected 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 Pochonica 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

			(Protopulvinar ia longivalvata) (Nursery)				infestation is noticed. Pollu beetle Spray neem oil (0.5%), one infestation is noticed. Nursery:
							Anthracnose Spray Bordeaux mixture (1%). Basal wilt Remove and destroy affecte cuttings along with defoliate leaves.
						west.	After periodic sanitation, the cuttings should be drenched wit carbendazim (0.2%) or Bordeau mixture (1%). Viral infections
							Regular inspection and remova of infected plants. Regula monitoring for insects and spray with neem oil (0.5%) wheneve infestation is noticed.
	,						Mealy bug and scale insects Spray neem oil (0.5%), once infestation is noticed. Nematodes Apply Pochonia chlamydosporia
Cardamom	Harvesting	Idukki, Wayanad (Kerala), Kodagu (Karnataka)	Thrips (Sciothrips cardamomi) Shoot borer (Conogethes punctiferalis)	Medium	Leaf blight (Colletotrichum spp.) Katte/Mosaic (Cardamom mosaic virus)	Medium	@ 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

	Chlorotic streak (Banana bract mosaic virus) Low	sources (infected plants/volunteers) to reduce reinfection. 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 reinfection. 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.
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Vanilla Ginger and	Bean maturing/ Harvesting Collect the seed in	Karnataka	ne ensuing season from	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)	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%).
Turmeric	infested rhizomes leaves after rhizon	. Deloid Storag	ge, follow appropriate s	eed treatment and store	the seed rhizomes	t right time and discard diseased/severely in sawdust + dried Strychnos nuxvomica

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